

Syllabus- M.Com

I SEMESTER

S.No.	CATEGORY	SUB. CODE	SUBJECT	Total Contact Hrs	L	T	P	C
1.	MC	P18MCBC101	Knowledge Management	5	3	1	0	4
2.	MC	P18MCBC102	Corporate Laws	5	3	1	0	4
3.	MC	P18MCBC103	Advanced Corporate Accounting	5	3	1	0	4
4.	MC	P18MCBC104	Insurance Management	5	3	1	0	4
5.	MC	P18MCBC105	Retail Management	5	3	1	0	4
6.	CE	P18MEBC011	Major Elective – I Managerial Economics	5	3	1	0	4
Total				30	18	6	0	24

II SEMESTER

S.No.	CATEGORY	SUB. CODE	SUBJECT	Total Contact Hrs	L	T	P	C
1.	MC	P18MCBC201	Advanced Financial Management	5	3	1	0	4
2.	MC	P18MCBC202	Quantitative Techniques for Business Decisions	5	2	1	0	3
3.	MC	P18MCBC203	Human Resources Management	5	3	1	0	4
4.	MC	P18MCBC204	Global Marketing	5	3	1	0	4
5.	MC	P18MCBC205	Organizational Behaviour	5	2	1	0	3
6.	MC	P18MCBC206	Indirect taxes	5	3	1	0	4
Total				30	16	6	0	22

III SEMESTER

S.No.	CATEGORY	SUB. CODE	SUBJECT	Total Contact Hrs	L	T	P	C
1.	MC	P18MCBC301	Total Quality Management	5	2	1	0	3
2.	MC	P18MCBC302	Income Tax Theory Law & Practice	5	3	1	0	4
3.	MC	P18MCBC303	Research Methodology	5	2	1	0	3
4.	MC	P18MCBC304	Project Management	4	2	1	0	3
5.	MC	P18MCBC305	Marketing Management	5	3	1	0	4
6.	CE	P18MEBC023	Major Elective – II Management Information System	4	3	1	0	4
7.		P18ACBA004	Value Education	2	2	0	0	0
Total				30	17	6	0	21

IV SEMESTER

S.No.	CATEGORY	SUB. CODE	SUBJECT	Total Contact Hrs	L	T	P	C
1.	MC	P18MCBC401	Investment Management	5	2	1	0	3
2.	MC	P18MCBC402	Advanced Cost & Management Accounting	5	3	1	0	4
3.	MC	P18MCBC403	Strategic Management	4	2	1	0	3
4.	CE	P18MEBC032	Financial Markets and Services	4	3	1	0	4
5.	OE	P18OESC001	Computer Applications	2	2	0	0	2
6.		P18PRBC4T1	Term Paper					
7.		P18MCYO001	Stress Management by Yoga					
8.		P18PRBC4P1	Project	10	0	0	18	9
Total				30	12	4	18	25

LIST OF MAJOR ELECTIVE – I
Choose any one in Semester I

S.No.	SUB. CODE	SUBJECT	Total Contact Hrs	L	T	P	C
1.	P18MEBC011	Managerial Economics	5	3	1	0	4
2.	P18MEBC012	Business Communication					
3.	P18MEBC013	Rural Banking					
Total			5	3	1	0	4

LIST OF MAJOR ELECTIVE – II
Choose any one in Semester III

S.No.	Sub Code	Subjects	Total Contact Hrs	L	T	P	C
1	P18MEBC021	International Economics					
2	P18MEBC022	International Trade					
3	P18MEBC023	Management Information System	5	3	1	0	4
Total			5	3	1	0	4

LIST OF MAJOR ELECTIVE – III
Choose any one in Semester IV

S.No.	Sub Code	Subjects	Total Contact Hrs	L	T	P	C
1	P18MEBC031	Change Management	4	3	1	0	4
2	P18MEBC032	Financial Markets and Services					
3	P18MEBC033	Portfolio Management					
Total			4	3	1	0	4

LIST OF OPEN ELECTIVES

S.No.	Sub.Code	Subject	Total No.Hours	L	T	P	C
1.	P18OEBA001	Advertising and Sales Management	2	2	0	0	2
2.	P18OEBA002	BPO Management	2	2	0	0	2
3.	P18OEBA003	Call Centre Management – Voice & Non Voice	2	2	0	0	2
4.	P18OEBA004	Customer Relationship Management	2	2	0	0	2
5.	P18OEBA005	Entrepreneurship Development	2	2	0	0	2
6.	P18OEBA006	Advanced Human Resource Management	2	2	0	0	2
7.	P18OEBA007	Logistics & Supply Chain Management	2	2	0	0	2
8.	P18OEBA008	Office Management	2	2	0	0	2
9.	P18OEVC001	Photography & Videography	2	2	0	0	2
10.	P18OEEN001	Soft Skills	2	2	0	0	2
11.	P18OEEN002	Mass Media and Communication	2	2	0	0	2
12.	P18OESC001	Computer Applications	2	2	0	0	2
13.	P18OESC002	Multimedia	2	2	0	0	2
14.	P18OESC003	Advanced Excel	2	2	0	0	2
15.	P18OESC004	Web Designing	2	2	0	0	2
16.	P18OESC005	Photoshop	2	2	0	0	2
17.	P18OESC006	Flash	2	2	0	0	2
18.	P18OESC007	Computer Hardware and Networking	2	2	0	0	2
19.	P18OESC008	Computer Programming	2	2	0	0	2
20.	P18OESC009	Office Automation Tools	2	2	0	0	2
21.	P18OEMI001	Clinical Microbiology	2	2	0	0	2
22.	P18OEMI002	Herbal Medicine	2	2	0	0	2
23.	P18OEPH001	Electrical Technician	2	2	0	0	2

LIST OF AUDIT COURSES

S.No.	Sub.Code	Subject Name	Total No. of Hours	L	T	P	C
1	P18ACEN001	English for Research Paper Writing	2	2	0	0	0
2	P18ACCE002	Disaster Management	2	2	0	0	0
3	P18ACEN003	Sanskrit for Technical Knowledge	2	2	0	0	0
4	P18ACBA004	Value Education	2	2	0	0	0
5	P18ACLW005	Constitution of India	2	2	0	0	0
6	P18ACBA006	Pedagogy Studies	2	2	0	0	0
7	P18ACBA007	Personality Development through Life Enlightenment Skills	2	2	0	0	0

P18MCBC101	KNOWLEDGE MANAGEMENT					L	T	P	C		
	Total Contact Hours – 60					3	1	0	4		
	Prerequisite – B.Com										
	Course Coordinator Name & Department:- Dr. J.Kannan / Commerce & Economics										
COURSE OBJECTIVES:- - To make the students realize the importance of capturing knowledge elements and its structures application as a competitive advantage to business. - To provide knowledge on understanding managing human resources in organization. - To provide an exposure on the knowledge management tools.											
COURSE OUTCOMES (COs)											
CO1	Define the term Technology and Knowledge Management.										
CO2	Describe the fundamentals of knowledge formation and knowledge sourcing.										
CO3	Apply the concept of Knowledge Management and organizational learning.										
CO4	Examine the factors of developing and sustaining knowledge culture.										
CO5	Employ the tools, techniques and measurements for knowledge management.										
CO6	Sketch the Practical implementation of Knowledge management systems.										
Mapping of Course Outcomes with Program outcomes (POs) (L/M/H indicates strength of correlation) 3-High, 2-Medium, 1-Low											
1	COs/Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
2	CO1	H	M					M		H	
	CO2	H	M								
	CO3	H	H								
	CO4	M	M					M			
	CO5	H	M								
	CO6	M	M								
3	Category	Humanities & Social Studies (HS)	Basic Sciences (BS)	Engg Sciences (ES)	Professional Core (PC)	Core Elective (CE)	Non-Major Elective (NE)	Open Elective (OE)	Any other	Project/Term Paper/ Seminar/ Internship (PR)	
					✓						
4	Approval		Academic Council Meeting								

UNIT-I

12

Knowledge Economy – Technology and Knowledge Management – Knowledge Management Matrix– Knowledge Management Strategy – Prioritizing knowledge strategies – knowledge as a strategic asset.

UNIT-II

12

Knowledge Attributes–Fundamentals of knowledge formation–Tacit and Explicit knowledge–Knowledge sourcing, abstraction, conversion and diffusion.

UNIT-III

12

Knowledge Management and organizational learning, architecture – important considerations – collection and codification of knowledge – Repositories, structure and lifecycle – Knowledge Management infrastructure – Knowledge Management applications – Collaborative platforms.

UNIT-IV

12

Developing and sustaining knowledge culture – Knowledge culture enablers – implementing knowledge culture enhancement programs – Communities of practice – Developing organizational memory.

UNIT-V

12

Knowledge Management tools, techniques – Knowledge Management and measurements – Knowledge audit – Knowledge careers – Practical implementation of Knowledge management systems – Case studies.

TEXT BOOKS:

1. Knowledge Management, “Kimiz Dalkir”, Elsevier, 2015.
2. Knowledge Management, “T. S. Ravi”, Margham Publication, 2013
3. Knowledge Management, “Sudhir warier vikas publication 2014

REFERENCE BOOKS:

1. Knowledge Management, “T. S. Ravi”, Margham Publication, 2013.
2. Knowledge Management, “Antony J. Rhem, CRC Press, July 2013.
3. Jashapara, A. (2011). Knowledge Management: An Integrated Approach (2nd edition). Harlow: Pearson Education Limited.

Course Coordinator

HOD

P18MCBC102	CORPORATE LAWS						L	T	P	C	
	Total Contact Hours – 45						3	1	0	4	
	Prerequisite – B.Com										
	Course Coordinator Name & Department:- Dr.D.Venkatramaraju / Commerce & Economics										
COURSE OBJECTIVES: - - To make students aware of the conceptual basis nature of the law and its formulation; - To acquaint them with the evolutionary processes of law in the context of social, political, economic and other factors. - To make the students understand the legal framework with reference to Companies in India											
COURSE OUTCOMES (COs)											
CO1	List the provisions relating to Company Administration under Companies Act 1956.										
CO2	Discuss about the Industries (Development and Regulation) Act, 1951.										
CO3	Interpret the Foreign Exchange Management Act, 1999 and its object.										
CO4	Analyze the concept of The Essential Commodities Act, 1955										
CO5	Examine the term Water (Prevention and Control of Pollution) Act, 1974.										
CO6	Categorize the Compliance regarding discharges causing pollution, Penalties and Offences.										
Mapping of Course Outcomes with Program outcomes (POs) (L/M/H indicates strength of correlation) 3-High, 2-Medium, 1-Low											
1	COs/Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
2	CO1	M									H
	CO2		H	H	M	M					
	CO3	H	H		M						
	CO4	H	M		M						
	CO5		M		M		M				
	CO6		H		H		H				
3	Category	Humanities & Social Studies (HS)	Basic Sciences (BS)	Engg Sciences (ES)	Professional Core (PC)	Core Elective (CE)	Non-Major Elective (NE)	Open Elective (OE)	Any other	Project/Term Paper/ Seminar/ Internship (PR)	
					✓						
4	Approval		Academic Council Meeting								

UNIT-I

9

Companies Act 1956 - Provisions relating to Company Administration – Board of Directors – Managing Director – Provisions relating to various types of meetings. Latest amendments in Companies Act, 2013 relating to company administration and governance.

UNIT-II

9

Industries (Development and Regulation) Act, 1951 - object – Definitions – Central Advisory Council – Development Council – Regulation of Scheduled Industries – Registration and Licensing – Investigation and takeover of Management of Industrial undertakings of Central Government – Effect of Central Government's order – Management and control of undertakings owned by companies in liquidation – Power to provide relief measures – power to exempt special cases – penalties.

UNIT-III

9

Foreign Exchange Management Act, 1999 – Definitions – Regulation and Management of Foreign Exchange – Authorized person – contravention and penalties – adjudication and penalties – Directorate of Enforcement.

UNIT-IV

9

The Essential Commodities Act, 1955 – Powers of Central Government to Control, effect, seizure and

confiscation–ConsumerProtectionAct1986–Definition–ConsumerProtectionCouncil–ConsumerDisputes
- Redressal Agencies – District Forum – State Commission – National Commission.

UNIT- V

Water (Prevention and Control of Pollution) Act, 1974 - Definition – functions and powers of various Boards - Compliance regarding discharges causing pollution, Penalties and Offences – Air (Prevention and Control of Pollution) Act, 1981 - Definition – Functions and powers of various Boards – Duties of occupier of specified industries to ensure adherence to standard offences by companies.

TEXT BOOKS:

1. Corporate Law, “Naveen Kumar Shekar”, I.K. International Publishing House,2016.
2. Corporate Law, “Dr. Sathish Kumar Saha”, SBPD Publications,2015
3. Corporate Law “Dr.G.K.Varshney , Sahitya BhawanPublications,2019

REFERENCE BOOKS:

1. Corporate Laws Manual, “Bharat”, Bharath Law House Pvt Ltd,2017.
2. Corporate Law, “Dr. Sathish Kumar Saha”, SBPD Publications,2015.
3. Gower: Principles of Modern Company Law,2017.

Course Coordinator

HOD

P18MCBC103	ADVANCED CORPORATE ACCOUNTING					L	T	P	C		
	Total Contact Hours – 60					3	1	0	4		
	Prerequisite – B.Com										
	Course Coordinator Name & Department:- Dr.D.Venkatramaraju / Commerce & Economics										
COURSE OBJECTIVES: - - To provide theoretical knowledge of Financial Reporting Standards and to enable the students to gain ability to solve problems relating to Holding Company Accounts, Liquidation of Companies and various other Accounts. - To provide accounting methods from different types of companies											
COURSE OUTCOMES (COs)											
CO1	Remember the concept of valuation of goodwill and shares										
CO2	Differentiate the Amalgamation by merger and Amalgamation by purchases.										
CO3	Illustrate the Holding Company Accounts and Bank Accounts New format.										
CO4	Examine the concept of Insurance Company Accounts (new format) and Double Account System.										
CO5	Calculate the accounting Standards, with reference to depreciation, inventory valuation.										
CO6	Outline the Valuation Methods of Human Resource Accounting.										
Mapping of Course Outcomes with Program outcomes (POs) (L/M/H indicates strength of correlation) 3-High, 2-Medium, 1-Low											
1	COs/Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
2	CO1	H		M					H		
	CO2	H									
	CO3	M		M							
	CO4	M	M								
	CO5	H	M		M						
	CO6	H									
3	Category	Humanities & Social Studies (HS)	Basic Sciences (BS)	Engg Sciences (ES)	Professional Core (PC)	Core Elective (CE)	Non-Major Elective (NE)	Open Elective (OE)	Any other	Project/Term Paper/ Seminar/ Internship (PR)	
					✓						
4	Approval		Academic Council Meeting								

UNIT-I

12

Valuation of Goodwill and Shares – Liquidation - Inflation Accounting.

UNIT-II

12

Amalgamation by merger and Amalgamation by purchases – External Reconstruction of Companies and alteration of Share Capital.

UNIT-III

12

Holding Company Accounts (including intercompany holdings) – Bank Accounts New format – NPA – Classification of investments.

UNIT-IV

12

Insurance Company Accounts (new format) – Double Account System.

UNIT-V

12

Human Resource Accounting – Definition, Objectives, and Valuation Methods – Advantages – Accounting Standards, with reference to depreciation, inventory valuation. (Theory only) - Inflation Accounting - (Theory only)

TEXT BOOKS:

1. Advance Corporate Accounting, “Ruq Sana Anjum”, Mc Graw Hill Publication, Jan2018.
2. Corporate Accounting, “Anita Raman & P. Radhika”, Mc Graw Hill Publication, Jan2018.
3. Advance Corporate Accounting, ”S.Anil kumar ,V. Rajesh Kumar, B.Mariyappa , Himalaya publication ,Jan2017.

REFERENCE BOOKS:

1. Advance Corporate Accounting, “Dr. S. N. Maheswari & Dr. Suneel K. Maheswari” VIKAS Publishing House, Dec 2018.
2. Corporate Accounting, “Vikas Goyal”, Prentice Hall of India,2012.
3. M.C. Shukla, T.S. Grewal and S.C. Gupta - Advanced Accounts Volume II - S.Chand & Co.

CourseCoordinator**HOD**

P18MCBC104	INSURANCE MANAGEMENT					L	T	P	C			
	Total Contact Hours – 60					3	1	0	4			
	Prerequisite – B.Com											
	Course Coordinator Name & Department:- Dr.S.Kamaraj / Commerce & Economics											
COURSE OBJECTIVES: - • This course intends to provide a basic understanding of the insurance mechanism. • To impart knowledge on the theory of insurance • To provide educate the process of insurance activities in India.												
COURSE OUTCOMES (COs)												
CO1	Discuss the principles, roles, types and importance of insurance.											
CO2	Describe the concept of life insurance and classification of policies.											
CO3	Demonstrate the concept of Fire Insurance and its types of policies.											
CO4	Examine the policies and policy conditions of Marine Insurance.											
CO5	Compare the various policies of General Insurance.											
CO6	Summarize articles related to Insurance Regulatory and Development Authority Act, 1972.											
Mapping of Course Outcomes with Program outcomes (POs) (L/M/H indicates strength of correlation) 3-High, 2-Medium, 1-Low												
1	COs/Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	
2	CO1	H	H	H							H	
	CO2	M										
	CO3	M	H									
	CO4	M										
	CO5	M	M									
	CO6	M		H								
3	Category	Humanities & Social Studies (HS)	Basic Sciences (BS)	Engg Sciences (ES)	Professional Core (PC)	Core Elective (CE)	Non-Major Elective (NE)	Open Elective (OE)	Any other	Project/Term Paper/ Seminar/ Internship (PR)		
					✓							
4	Approval		Academic Council Meeting									

UNIT-I

12

Insurance – Definition – Nature - Principles – Role - Importance – Types of Insurance & Insurance Organization - Insurance Contract - Privatization of Insurance in India – Major Players in Insurance Business – Impact of Privatization of insurance in India.

UNIT-II

12

Life Insurance – Nature – Classification of Policies - Annuities - Selection of Risk - Measurement of Risk – Mortality Table - Calculation of Premium - Surrender Value - Cover Note - Policy Conditions - Progress of Life Insurance Business in India.

UNIT-III

12

Fire Insurance – Nature – Fire Insurance Contract – Kinds of Policies - Policy Conditions - Payment of Claims – Reinsurance – Double Insurance

UNIT-IV

12

Marine Insurance – Nature - Policies – Policy Conditions – Premium Calculation – Marine Losses – Payment of Claims - Progress of Marine Insurance Business in India.

UNIT-V

12

General Insurance – Motor Insurance – Burglary and Personal Accident Insurance Miscellaneous Forms of Insurance – Employee Liability Insurance – Property Insurance – Cattle Insurance – Crop Insurance - Medi-

Claim – Overseas Medi – Claim Policy - Rural Insurance in India -Insurance Regulatory and Development Authority Act, 1972 - IRDA Regulations 2000.

TEXT BOOKS:

1. Insurance Management, “Anand Ganguly”, New age International Publication,2017.
2. Insurance Management, “swarup C.Sahoo ,Suresh C.Das Himalaya Publishing ,2013.
3. Fundamental Principles of Insurance, “Prof. M. Eswari Karthikeyan” Sahitya Bhawan Publications(2019).

REFERENCE BOOKS:

1. Insurance and Risk Management, “ Dr. Sunil Kumar”, Calcotia Publication,2017
2. Principles of Risk Management and Insurance, “ Jarge E. Rejda, Michael Mc Namara, Pearson Publication, Nov2013.
3. Life and health insurance handbook—Davis . W. Gregg

CourseCoordinator

HOD

P18MCBC105	RETAIL MANAGEMENT					L	T	P	C		
	Total Contact Hours – 60					3	1	0	4		
	Prerequisite – B.Com										
	Course Coordinator Name & Department:- Ms. R. Velanganni / Commerce										
COURSE OBJECTIVES: - - To understand effective methods and strategies required for retail management. - To learn how to utilize resources and techniques used in retail management. - To analyze store location, merchandising, products and pricing. - To provide delivering value to retail shoppers for CRM											
COURSE OUTCOMES (COs)											
CO1	State the concept and characteristics of retailing.										
CO2	Review the concept of global trend in retailing and Indian retail industry.										
CO3	Interpret the types of Retail formats and Choice of location.										
CO4	Analyze the concept of Supply chain and logistics.										
CO5	Compute the Influences of shoppers’ attitude, perception, personality and life style in retail Shopping behavior.										
CO6	Operate the applications of information technology in retail management.										
Mapping of Course Outcomes with Program outcomes (POs) (L/M/H indicates strength of correlation) 3-High, 2-Medium, 1-Low											
1	COs/Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
2	CO1	H							H		
	CO2	H		M							
	CO3		M								
	CO4		M								
	CO5	H									
	CO6	H	M					H			
3	Category	Humanities & Social Studies (HS)	Basic Sciences (BS)	Engg Sciences (ES)	Professional Core (PC)	Core Elective (CE)	Non-Major Elective (NE)	Open Elective (OE)	Any other	Project/Term Paper/ Seminar/ Internship (PR)	
					✓						
4	Approval		Academic Council Meeting								

UNIT-I

12

Retailing - Definition – Concept - Characteristics – Traditional and non-Traditional retailing – Applications of information technology in retail management - E – Retailing.

UNIT-II

12

Global trend in retailing – Indian retail industry –Drivers to the growth of retail – Macro and micro environmental influences – Creativity in retailing - Emerging trends and challenges – FDI in retailing - Rural retailing.

UNIT-III

12

Retail formats - types –Choice of location –Store layout and designs – Positioning of retail shops – Retail store image – Retail service quality Management - Retail Administration: Store Management, HRM, Information systems.

UNIT-IV

12

Merchandise management – Service retailing Vs. Product retailing – Retail branding - Pricing for retail – Promotion–Supplychainandlogistics-handlingreturns–Retailmarketingstrategies–RetailCommunications - Mall Management.

UNIT-V**12**

Shopping process –Influences of shoppers’ attitude, perception, personality and life style in retail shopping behaviour – Handling complaints – Delivering value to retail shoppers - CRM in retailing – Retail research.

TEXT BOOKS:

1. Barry Berman, Joel.R.Evans, “Retail Management – A Strategic Approach,” Prentice Hall, NewYork
2. James R. Ogden, Denise J. Ogden, “Integrated Retail Management,” Biztantra Publisher, NewDelhi.
3. Swapana Pradhan ,” Retailing Management, Text & Cases,” Tata McGraw Hill Publications, NewDelhi.

REFERENCE BOOKS:

1. “Retail Management-A Strategic Approach”, Barry Berman and Joel. R.Evans, Prentice Hall ofIndia
2. “Retail Management”- A global perspective(texts and cases), Dr.Harjit Singh, S Chand & CoLtd.
3. Barry Berman, Joel R Evans- Retail Management; A Strategic Approach

CourseCoordinator**HOD**

P18MEBC011	MANAGERIAL ECONOMICS					L	T	P	C		
	Total Contact Hours – 60					3	1	0	4		
	Prerequisite – B.Com										
	Course Coordinator Name & Department:- Ms. R.Priya/Commerce & Economics										
COURSE OBJECTIVES: - - To familiarize with the students the importance of economic approaches in managerial decision making. - To understand the applications of economic theories in business - To provide principles & laws in making business decisions.											
COURSE OUTCOMES (COs)											
CO1	State the nature and scope Managerial Economics										
CO2	Explain Production function, supply analysis, cost concepts										
CO3	Demonstrate about price and output decisions, price discrimination										
CO4	Examine the theories of profit and measurement techniques of profit										
CO5	Predict the strategies and methods of price discrimination.										
CO6	Compute Economic relationship with other discipline.										
Mapping of Course Outcomes with Program outcomes (POs) (L/M/H indicates strength of correlation) 3-High, 2-Medium, 1-Low											
1	COs/Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
2	CO1	M	M						H		
	CO2	H		H							
	CO3	M	H								
	CO4	H		H							
	CO5	M	H								
	CO6	M									
3	Category	Humanities & Social Studies	Basic Sciences (BS)	Engg Sciences (ES)	Professional Core (PC)	Core Elective (CE)	Non-Major Elective (NE)	Open Elective (OE)	Any other	Project/Term Paper/ Seminar/ Internship (PR)	
						✓					
4	Approval		Academic Council Meeting								

UNIT-I

12

Managerial Economics – Meaning, Nature, Scope and Application – Relationship with other discipline – Role of Managerial Economist – Demand Analysis – Demand Determinants -forecasting and techniques.

UNIT-II

12

Production Function – Managerial use of production function – Supply analysis - Law of Supply – managerial uses of supply curve - Cost Concepts, classification & determinants – Cost Output relationship – Economies of scale - Cost Control and Cost Reduction.

UNIT-III

12

Price and Output decisions under different marketing structures - Perfect competition, Monopoly, Oligopoly & Monopolistic Competition – Price discrimination – Pricing Objectives, policies, Strategies and methods - Price differentials – Price forecasting.

UNIT-IV**12**

Profit – Nature & Concept – Profit Planning, Policies and Forecasting - profit theories - Measurement of profit - Interest – Rent and theories.

UNIT-V**12**

Business Cycle and policies – Economic forecasting of business – Input Output Analysis – National Income - Accounting and Measurement.

TEXT BOOKS:

1. Managerial Economics, “Salvatore Deminick”, Oxford University Press,2012.
2. Managerial Economics, “GS. Gupta”, Mc Graw Hill Publication,2010.
3. ManagerialEconomics,“SreejataBanerjee,PhilipK.Y.Young,PaulG.Keat,StephenEErfle”,PearsonPublication, 2017.

REFERENCE BOOKS:

1. Managerial Economics, “W. Crsis Ewis, Sudhir, Sudhir K. Jain”, Pearson Publication,2015.
2. Managerial Economics, “GS. Gupta”, Mc Graw Hill Publication,2010.
3. Yogesh Maheswari, Managerial Economics, Phi Learning,Newdelhi, 2005

CourseCoordinator**HOD**

P18MEBC012	BUSINESS COMMUNICATION					L	T	P	C		
	Total Contact Hours – 60					3	1	0	4		
	Prerequisite – B.Com										
	Course Coordinator Name & Department:- Ms. R. Priya / Commerce & Economics										
COURSE OBJECTIVES: - • To understand the concept, process and importance of communication. • To develop skills of effective communication - both written and oral. • To help students to acquaint the communication skills in the business. • To peep students on preparing the business letters. • To gain knowledge of media of communication.											
COURSE OUTCOMES (COs)											
CO1	List the principles, barriers, nature, purpose and types of communication.										
CO2	Differentiate between the verbal and non-verbal communication.										
CO3	Interpret the essentials, layouts and types of good business letter.										
CO4	Analyze the concept Report Writing, Mailing, Agenda, Minutes, Memorandum and CV.										
CO5	Examine the directions and dimensions of communication.										
CO6	State modern forms of communication and its uses in business.										
Mapping of Course Outcomes with Program outcomes (POs) (L/M/H indicates strength of correlation) 3-High, 2-Medium, 1-Low											
1	COs/Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
2	CO1	H	H							H	
	CO2	H	M								
	CO3	H	M								
	CO4	H	M								
	CO5	M	H								
	CO6	M	M								
3	Category	Humanities & Social Studies (HS)	Basic Sciences (BS)	Engg Sciences (ES)	Professional Core (PC)	Core Elective (CE)	Non-Major Elective (NE)	Open Elective (OE)	Any other	Project/Term Paper/ Seminar/ Internship (PR)	
						✓					
4	Approval		Academic Council Meeting								

UNIT-I

12

Definition – Nature – Purpose – Importance – Types – Process of Communication – Principles for effective Communication – Barriers to Communication.

UNIT-II

12

Introduction – classification – verbal communication – written- oral – Non verbal communication – Body language - Directions – Dimensions of communication.

UNIT-III

12

Meaning – Essentials of a Good Business Letter – Layout – Types – Enquiry – Order Complaint – Sales – Circular – Agency – Cover – Goodwill

UNIT-IV

12

Bank Correspondence – Insurance Correspondence – Agency Correspondence – Report Writing – Mailing – Agenda – Minutes – Memorandum – Curriculum Vitae.

UNIT-V

12

Modern forms of communication: Fax – E mail – video Conferencing – Internet – Websites and their use in business.

TEXT BOOKS:

1. Asha Kaul, Business Communication, PHI Publication, 2nd Edition, 30 may,2007
2. P. D Chaturvedi & Mukesh Chaturvedi, Business Communication Concepts, Cases and Applications, Pearson publication, 2nd Edition, 30 June,2017.
3. Peter W. Cardon, Business Communication 2nd Edition,1january2015

REFERENCE BOOKS:

1. Dr V. K. Jain &Dr. OmPrakash Biyani, Business Communication, S. Chand Publication, 1 Nov,2007.
2. Varinder Bhatia, Business Communications including Technical Communication, Khanna publishers, Jan2013.
3. N.S.Raghunathan & B.Santhanam, Business communication, Margham Publications,Jan 2015.

P18MEBC013	RURAL BANKING					L	T	P	C		
	Total Contact Hours – 60					3	1	0	4		
	Prerequisite – B.Com										
	Course Coordinator Name & Department:- Dr.V.Saillaja / Commerce & Economics										
COURSE OBJECTIVES: - - To familiarize the students with the basic of rural economy. - To impart knowledge on Indian Agriculture. - To enable the students on the concept of rural poverty. - To expose the student on savings pattern in India.											
COURSE OUTCOMES (COs)											
CO1	List the features, Structure and Issues of Rural Economy.										
CO2	Explain concept of Production pattern in villages, Land tenure and methods of production.										
CO3	Interpret the concept of rural poverty, extent of rural poverty, eradication of rural poverty.										
CO4	Categorize the suggestions to solve the problem of rural indebtedness.										
CO5	Identify the Causes for low saving in rural sector and Measures to promote rural savings.										
CO6	Outline the causes and consequences of poverty and remedies for poverty.										
Mapping of Course Outcomes with Program outcomes (POs) (L/M/H indicates strength of correlation) 3-High, 2-Medium, 1-Low											
1	COs/Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
2	CO1	H	M	M	M						H
	CO2	H	M		H						
	CO3	H		H	L						
	CO4	M	M								
	CO5	M		H	H						
	CO6	M		H	M						
3	Category	Humanities & Social Studies	Basic Sciences (BS)	Engg Sciences (ES)	Professional Core (PC)	Core Elective (CE)	Non-Major Elective (NE)	Open Elective (OE)	Any other	Project/Term Paper/ Seminar/ Internship (PR)	
						✓					
4	Approval		Academic Council Meeting								

UNIT-I

12

Features of Rural Economy in India and Tamil Nadu – Size - Structure and Issues - Relative Importance of agriculture, industry, trade and other activities.

UNIT-II

12

Backwardness of Indian agriculture - Production pattern in villages - Land tenure and methods of production – Low yield per acre - Cause for backwardness - Effects of Backwardness - Suggestions.

UNIT-III

12

Rural poverty - Meaning - Extent of rural poverty – Causes and consequences - Eradication of poverty - Remedies - Eradication of rural poverty during five year plans.

UNIT-IV

12

Rural indebtedness - Causes - Consequences – Suggestions to solve the problem of rural indebtedness – Steps

taken to solve the problem

UNIT-V

12

Saving pattern in rural India - Causes for low saving in rural sector - Measures to promote rural savings – Mode of savings in rural India.

TEXT BOOKS:

1. K.R.Gupta, Rural Development in India, Atlantic Publications, 1 Dec2010.
2. Indian Institute of Banking & Finance (IIBF), Rural Banking, 1 Oct.2018.
3. Rural Banking Operations, Indian Institute of Banking & Finance (IIBF), 1 Jan2012.

REFERENCE BOOKS

1. Kalra M.L. (1998) “Banking in the 21st Century: Challenges and Opportunities” in Indian Bankingtowards 21st century (Ed.A.S.Chawala, K.K.Uppal and Keshav Malhotra) Deep and Deep Publications, NewDelhi.
2. Bhaktapada Roy, Rural Banking & Poverty Alleviation, Abhijeet Publications, 1 June2008.
3. Kusharo committee Report on Review of Agricutural Credit, Reserve Bank of India, 1990.

P18MCBC201	ADVANCED FINANCIAL MANAGEMENT					L	T	P	C		
	Total Contact Hours – 60					3	1	0	4		
	Prerequisite – B.Com										
	Course Coordinator Name & Department :- Ms. G.Vinothini/ Commerce										
COURSE OBJECTIVES:- - This course is designed to evaluate the financial performance of a firm, financial forecasting, financial instruments and markets, discounted cash-flow models. - To enable the students understand concepts and application of financial management tools.											
COURSE OUTCOMES (COs)											
CO1	Recall the nature & objective of financial management.										
CO2	Estimate the relationship risk & return in finance decision.										
CO3	Employ the acquired knowledge on the cost of capital obtained in a firm.										
CO4	Point out the factors influencing capital structure & return on investment analysis.										
CO5	Discuss the corporate dividend behaviors.										
CO6	Review management of working capital.										
Mapping of Course Outcomes with Program outcomes (POs) (L/M/H indicates strength of correlation) 3-High, 2-Medium, 1-Low											
1	COs/Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
2	CO1	H	H						H		
	CO2	H	M								
	CO3	H	M								
	CO4	M	M								
	CO5	M	M								
	CO6	M	H								
3	Category	Humanities & Social Studies (HSS)	Basic Sciences (BS)	Engg Sciences (ES)	Professional Core (PC)	Core Elective (CE)	Non-Major Elective (NE)	Open Elective (OE)	Any other	Project/Term Paper/ Seminar/ Internship (PR)	
					✓						
4	Approval		Academic Council Meeting								

UNIT--I

12

Financial Management: Meaning, nature and scope of finance; financial goal–Profit Vs Wealth Maximization, Finance functions – investment, financing and dividend decisions.

UNIT-II

12

Fundamental valuation concepts: - Time value of money – Compound value, Present value; Risk and Return – concept, Risk in a portfolio context, Relationship between Risk and Return. Valuation of Securities – Valuation concept – Bond Valuation – Valuation of Preference shares, Equity valuation – Dividend valuation approach, Earnings capitalisation approach and Ratio approach.

UNIT--III

12

Cost of capital: Meaning and Significance of cost of capital; calculation of cost of debt, preference capital, equity capital and retained earnings; combined cost of capital (weighted). Financial Leverage: Meaning, Measurement of leverages; Effect of Operating and Financial Leverage on Profit; Analysing alternate financial plans; combined financial and operating leverages.

UNIT-IV**12**

Planning the Capital Structure – Factors influencing capital structure; EBIT-EPS Analysis, Return on Investment Analysis, Cash flow analysis, capital structure policies – Theories. Dividend policy – Factors determining dividend pay-out, Forms of dividend; stability in dividend policy; corporate dividend behavior

UNIT-V**12**

Management of working capital:- Meaning, Significance and Types of working capital; calculating operating cycle period and estimation of working capital requirements; sources of working capital; Management of cash, receivables and inventory.

TEXT BOOKS:

1. Advance Financial Management, "T. S. Reddy & A. Murthy", Margham Publication, 2017.
2. Advance Financial Management, "Dr. M. V. Nagarajan", Vidhya Publication, 2018.
3. Fundamentals of Financial Management Eugene F. Brigham, cengage Learning, 9th Edition, 2016.

REFERENCE BOOKS:

1. Financial Management, "B. Mariyappa", Himalaya publication house, 2014-2015.
2. Advance Financial Management, Kaplan, Kaplan Publication, 2019.
3. Financial Management, Eugene F. Brigham cengage Learning, 9th Edition, 2016.

Course Coordinator**HOD**

P18MCBC202	QUANTITATIVE TECHNIQUES FOR BUSINESS DECISIONS						L	T	P	C		
	Total Contact Hours – 45						2	1	0	3		
	Prerequisite – B.Com											
	Course Coordinator Name & Department :- Ms.S.Jeyanthi / Commerce & Economics											
COURSE OBJECTIVES: - - Understand the importance of the use of quantitative application in decision Making Environment. - To acquaint the students with the Statistical tools and techniques for managerial decisions. - To identify right time for replacement of equipment and understand project management techniques												
COURSE OUTCOMES (COs)												
CO1	Relate the concepts correlation analysis and regression analysis											
CO2	Differentiate between the Chi-square test and Analysis of Variance.											
CO3	Illustrate the problems applying Additional and Multiplication Theorem.											
CO4	Calculate the linear programming with graphical methods.											
CO5	Compare the Interpolation and Extrapolation and its methods.											
CO6	Solve the transportation problems and assignment problems to find feasible solution.											
Mapping of Course Outcomes with Program outcomes (POs) (L/M/H indicates strength of correlation) 3-High, 2-Medium, 1-Low												
1	COs/Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	
2	CO1	H	M							H		
	CO2	H										
	CO3	H	M									
	CO4	H	H									
	CO5	H	M									
	CO6	H										
3	Category	Humanities & Social Studies (HS)	Basic Sciences (BS)	Engg Sciences (ES)	Professional Core (PC)	Core Elective (CE)	Non-Major Elective (NE)	Open Elective (OE)	Any other	Project/Term Paper/ Seminar/ Internship (PR)		
					✓							
4	Approval	Academic Council Meeting										

UNIT-I: 9
Meaning of Quantitative Techniques – Role of Quantitative Techniques – Advantages and Limitations of Quantitative Techniques – Correlation Analysis – Simple – Partial and Multiple –Regression Analysis –Time Series.

UNIT-II: 9
Probability – Problems applying Additional and Multiplication Theorem – Mathematical Expectations – Theoretical Distributions – Binomial – Poisson – Normal Distribution..

UNIT-III: 9
Significance Tests in Small Samples (t-test) – Testing the significance of the mean of a random sample – Testing difference between means of two samples (Independent and Dependent Samples) – Chi-square test – Analysis of Variance (One way and two way classification).

UNIT-IV: 9
Linear Programming – Graphical Method – Simplex Method – Transportation Problems – Initial Basic Feasible Solution – Modi Method – Assignment Problems

UNIT-V: 9
Interpolation and Extrapolation – Methods of Interpolation – Binomial Expansion Method – Newton’s Method – Lagrange’s Method – Parabolic Curve Method – Extrapolation – Vital .Statistics – Life Tables.

Note: Theory 40 Marks, Problems 60 Marks

TEXT BOOKS:

1. Quantitative Techniques for Business Decision, “Dr. P. R. Vittal”, Margham Publication, 2018.
2. Quantitative Techniques for Business Decision, “Sathya Devi”, S. Chand, 2010.
3. Quantitative Techniques, “C.R. Kothari” Vikas Publishing, 2018.

REFERENCE BOOKS:

1. Quantitative Methods for Business Decision, “N. D. Vohra Zolo”, Mc Graw Hill Publication, 2011.
2. Quantitative Techniques for Managerial Decision, “U.K. Srivastava”, New Age International Pvt Ltd, 2011.
3. Kothari - Quantitative Techniques Vikas 1996, 3rd Edition.

Course Coordinator

HOD

P18MCBC203	HUMAN RESOURCES MANAGEMENT					L	T	P	C		
	Total Contact Hours – 60					3	1	0	4		
	Prerequisite – B.Com										
	Course Coordinator Name & Department :- Ms. Santhoshkumar / Commerce										
COURSE OBJECTIVES: - - To give exposure to students about the basic concept for organizational effectiveness through the technique of applying human resource management. - To impart knowledge on the concepts and principles of HRM followed in different types of organization.											
COURSE OUTCOMES (COs)											
CO1	Recall the concept of Human Resource Management and its scope, objectives, Functions and needs.										
CO2	Discuss the process of manpower planning and re-engineering.										
CO3	Interpret the concept of Recruitment, Selection, Training Promotion, Carrier Planning and Transfers.										
CO4	Examine the factors affecting the performance appraisal and issues in QWL.										
CO5	Evaluate the levels and methods of collective bargaining.										
CO6	Synthesize the causes of Grievance and Procedure for grievance redressal.										
Mapping of Course Outcomes with Program outcomes (POs) (L/M/H indicates strength of correlation) 3-High, 2-Medium, 1-Low											
1	COs/Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
2	CO1	H	M							M	
	CO2	H	M								
	CO3		M			M					
	CO4	H									
	CO5		M			M					
	CO6	H		M							
3	Category	Humanities & Social Studies	Basic Sciences (BS)	Engg Sciences (ES)	Professional Core (PC)	Core Elective (CE)	Non-Major Elective (NE)	Open Elective (OE)	Any other	Project/Term Paper/ Seminar/ Internship (PR)	
					✓						
4	Approval		Academic Council Meeting								

UNIT-I

12

Human Resource Management- Meaning – Nature and Scope, Objectives - Functions - Distinction between HRM and Personnel Management. Personnel Policies: Procedure and Programmes. Organization of HRM Department–Needs-RecentTrendsinHRMPractices–PersonnelAudit-HumanResourceInformationSystem need andbenefits.

UNIT-II

12

Man Power Planning – Characteristics: Need, Process - Job Analysis- Job Description- Job Specification - Job Design- Job Evaluation Methods – Merits and Demerits - Job Enrichment-Job Enlargement –Re-Engineering - Recruitment – Sources - Selection- Selection Procedure, - Interviews – Placement – Induction.

UNIT-III

12

Training–Meaning,Need-SelectionofTrainees-MethodsofTraining–EvaluationofTraining-Management Development Programmes- Methods.- Promotion – Types, Merits- Demotions; Career Planning –Transfers.

UNIT-IV**12**

Performance Appraisal – Purpose- Factors Affecting Performance Appraisal – Criteria for Performance Appraisal – Performance Appraisal Techniques – Limitation of Appraisal Methods. Quality of Work Life – Issues in Quality of Work Life- Measuring QWL – Workers Participation in Management.

UNIT-V**12**

Grievance – Meaning, Causes of Grievance- Grievance Redressal Procedure – Collective Bargaining – Meaning – levels – methods – pre-requisites – Benefits.

TEXT BOOKS:

1. Human Resource Management, “Manmohan Joshi”, Margham Publication,2013.
2. Recruitment and Selection, “Dipak Kumar”, CenageLearning,2016.
3. Human Resource Management, Robert L. Mathis, Cengage Learning, 15th Edition,2016.

REFERENCE BOOKS:

1. Human Resource Management, “K. Aswathappa”, Mc Graw Hill Publication,2017.
2. Human Resource Management, “Dr. S. S. khanka”, S. Chand,2013.
3. Human Resource Management, Sean R. Valentine, Cenage Learning, 16th Edition,2019.

CourseCoordinator**HOD**

P18MCBC204	GLOBAL MARKETING					L	T	P	C		
	Total Contact Hours – 60					3	1	0	4		
	Prerequisite – B.Com										
	Course Coordinator Name & Department :- Dr.S.Kamaraj / Commerce										
COURSE OBJECTIVES: - To offer knowledge and expertise in the marketing business at global level and to provide exposure on marketing practices of business firms To analyze competition and collaboration in a global context outline and present:											
COURSE OUTCOMES (COs)											
CO1	Define the concept of Global marketing and its growth and benefits.										
CO2	Discuss about the International product policy and product positioning in foreign market										
CO3	Apply the concept of developing International advertising strategy.										
CO4	Identify the managing international distribution channels Multinational retailers and Wholesalers										
CO5	Describe the term International Marketing Information System and Research.										
CO6	Solve the Contemporary issues in International marketing.										
Mapping of Course Outcomes with Program outcomes (POs) (L/M/H indicates strength of correlation) 3-High, 2-Medium, 1-Low											
1	COs/Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
2	CO1	H	M							H	
	CO2	H	M								
	CO3	M		H							
	CO4	M	H	M							
	CO5	H						H			
	CO6	H									
3	Category	Humanities & Social Studies	Basic Sciences (BS)	Engg Sciences (ES)	Professional Core (PC)	Core Elective (CE)	Non-Major Elective (NE)	Open Elective (OE)	Any other	Project/Term Paper/ Seminar/ Internship (PR)	
					✓						
4	Approval		Academic Council Meeting								

UNIT-I

12

The concept of global marketing – Importance, Growth and Benefits – Scope and Challenge of international marketing – The dynamic environment of international marketing.

UNIT-II

12

Developing Global Marketing strategies – Global marketing management –Planning and Organization – International Marketing Information System and Research – Understanding Global Consumers – Cultural Dynamics in assessing Global markets.

UNIT-III

12

International product policy – Product positioning in foreign market – Product standardization and Adoption – Brands, Trademarks, Packaging and Labeling – International marketing of services – International product pricing policy – Export pricing –Pricing for international markets.

UNIT-IV

12

International promotional policy – International advertising – Developing International advertising strategy – International sales force and their management – Other forms of promotion for global markets.

UNIT-V**12**

Overseas marketing channel policy – Managing international distribution channels Multinational retailers and Wholesalers – Global Logistics – Contemporary issues in International marketing – Future prospects in International marketing.

TEXT BOOKS:

1. Global Marketing, “J. Keegan warrew”, Pearson Education,2018.
2. International Marketing, “Philip R. Catesra”, Mc Graw Hill Publication,2017.
3. Global Marketing, Svend Hollensen, Pearson, 8th Edition,2014.

REFERENCE BOOKS:

1. International Marketing, “Rakesh Mohan Joshi”, Oxford University,2014.
2. International Trade, “De, C. D. Balaji, Margham Publication,2018
3. Global Marketing, Mark C Green, Prentice Hall, 3rd Edition,2010

CourseCoordinator**HOD**

P18MCBC205	ORGANISATIONAL BEHAVIOUR						L	T	P	C	
	Total Contact Hours – 45						2	1	0	3	
	Prerequisite – B.Com										
	Course Coordinator Name & Department :- Mr.S.Robin/ Commerce & Economics										
COURSE OBJECTIVES: - To make the students understand the basics of individual behaviour and group behaviour of people at work and enable them to gain knowledge relating to overall development of the organization.											
COURSE OUTCOMES (COs)											
CO1	Define the term organisational behaviour and relate with other social sciences.										
CO2	Explain the process and factors influencing the perception.										
CO3	Demonstrate the theories and determinants of Personality.										
CO4	Examine the styles of leadership and theories of motivation.										
CO5	Outline the process and techniques of organisational development.										
CO6	List the factors influencing organizational effectiveness.										
Mapping of Course Outcomes with Program outcomes (POs) (L/M/H indicates strength of correlation) 3-High, 2-Medium, 1-Low											
1	COs/Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
2	CO1	H	M							H	
	CO2	H	M								
	CO3	H									
	CO4	M		H							
	CO5	H	M								
	CO6	M									
3	Category	Humanities & Social Studies (HS)	Basic Sciences (BS)	Engg Sciences (ES)	Professional Core (PC)	Core Elective (CE)	Non-Major Elective (NE)	Open Elective (OE)	Any other	Project/Term Paper/ Seminar/ Internship (PR)	
					✓						
4	Approval		Academic Council Meeting								

UNIT-I

9

Organisational Behaviour – Meaning – Characteristics – Disciplines contributing to OB – Relationship with other Social Sciences – Approaches to OB – Hawthorne Experiments.

UNIT-II

9

Perception: Process – Factors influencing perception - Distortion in Perception – Learning: Theories of Learning – Attitudes: Factors influencing Attitude.

UNIT-III

9

Personality: Theories of Personality – Determinants – Types - Emotional Intelligence – Features - Group Dynamics: Formal and Informal Groups – Group Cohesiveness – Stress Management: Causes and Effects of Stress – Coping strategies for stress.

UNIT-IV

9

Leadership: Theories and styles – Motivation – Theories of Motivation – Communication – Conflict Management: Role Conflict – Goal Conflict and inter personal conflict.

UNIT-V

9

Organisation Development – OD Process and Techniques – Organisation Culture – Factors influencing organisation culture – Organisational Effectiveness – Process and factors influencing organizational effectiveness.

TEXT BOIOKS:

1. Organisational Behaviour, “L.M. Prasad”, S. Chand,2014.
2. Organisational Behaviour, “ P. Kumar, Gen Next,2010.
3. Organisational Behaviour, S.P. Robbins, Pearson, 15th Edition,2015.

REFERENCE BOOKS:

1. Organisational Behaviour, “J. Jaya Shankar”, Margham Publication,2012.
2. Organisational Behaviour, “Dr. S.S. Khanka”, Sultan Chand,2017.
3. Organisational Behaviour, Dr. M. Sivakumar, Lakshmi Publications, 2017

CourseCoordinator**HOD**

P18MCBC206	INDIRECT TAXES					L	T	P	C		
	Total Contact Hours – 60					3	1	0	4		
	Prerequisite – B.Com										
	Course Coordinator Name & Department :- Dr.J.Kannan / Commerce & Economics										
COURSE OBJECTIVES: - - To Understand the basic principles underlying the Indirect Taxation Statutes (with reference to Central Excise Act, Customs Act, Service Tax, Value Added Tax, Central Sales Tax) - To Compute the assessable value of transactions related to goods and services for levy and determination of duty liability											
COURSE OUTCOMES (COs)											
CO1	Define the term Tax, Duty and GST and list the varieties of indirect taxes.										
CO2	Express the principles of valuation of good and factors for Levy of Excise Duty										
CO3	Prepare procedure for assessment & payment of excise duty.										
CO4	Categorize the genesis of service tax, taxable & nontaxable area also the philosophy and cenvat.										
CO5	Estimate the transactions covered GST and the procedure in assessment & administration of GST.										
CO6	Outline Constitutional Amendments										
Mapping of Course Outcomes with Program outcomes (POs) (L/M/H indicates strength of correlation) 3-High, 2-Medium, 1-Low											
1	COs/Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
2	CO1	H	M	H	M				H		
	CO2	H	H								
	CO3	M		H	M						
	CO4	M	H								
	CO5	H		H							
	CO6	M									
3	Category	Humanities & Social Studies	Basic Sciences (BS)	Engg Sciences (ES)	Professional Core (PC)	Core Elective (CE)	Non-Major Elective (NE)	Open Elective (OE)	Any other	Project/Term Paper/ Seminar/ Internship (PR)	
					✓						
4	Approval		Academic Council Meeting								

UNIT-I

12

Basics: Tax Vs Duty; Direct Tax Vs Indirect Tax – Powers of Union/States – Varieties of Indirect Taxes – Movement towards GST.

UNIT-II

12

Central Excise: Factors for Levy of Excise Duty – Goods, Excisable Goods, Manufacture, India – First principles of valuation of goods – Types of Excise Duty – Procedure for assessment and payment of Excise Duty – Philosophy of Cenvat – Registration.

UNIT-III

12

Service Tax: Genesis – First Principles of Taxable Service, Negative list, Exemption list, Taxable area, non-taxable area, point of taxation and valuation - Procedure for assessment and payment of Service Tax – Philosophy of Cenvat – Registration.

UNIT-IV**12**

Factors for levy of Customs Duty – First principles of valuation – Procedure for assessment and payment of Customs Duty – Types of Customs Duty – Warehousing – Drawback.

UNIT-V**12**

Need for Tax reforms – GST Principles – Single GST, Dual GST – Transactions covered under GST – Assessment and Administration of GST – Constitutional Amendments.

Note: Theory Only

TEXT BOOKS:

1. Indirect Taxes, “T.S. Reddy & Y. Hari Prasad Reddy”, Margham Publication, 2018.
2. Indirect Taxes Law and Practice, “V. S. Datey”, Taxmann, 2019.
3. Taxation Law & practice, “V. Balanchandran”, Prentice Hall India, 2012.

REFERENCE BOOKS:

1. Taxation Law & practice, “V. Balanchandran”, Prentice Hall India, 2012.
2. Indirect Taxes Law and Practice, “Dr. H. C. Mehrotra, Sahitya Bhavan, 2019.
3. Indirect Taxes Law and Practice, “V. S. Datey”, Taxmann, 2019.

CourseCoordinator

HOD

P18MCBC301	TOTAL QUALITY MANAGEMENT					L	T	P	C		
	Total Contact Hours – 45					2	1	0	3		
	Prerequisite – B.Com										
	Course Coordinator Name & Department: - Ms S.Jayanthy / Commerce and economics										
COURSE OBJECTIVES:- To make the students understand the recent concepts of total quality management and their importance in both manufacturing and service organization.											
COURSE OUTCOMES (COs)											
CO1	Recall the basic fundamentals of Quality Control, Quality and Cost Considerations.										
CO2	Determine the theory of Sampling Inspection, Standard Tolerance and Total Quality Control.										
CO3	Demonstrate the concept of Sampling Inspection in Engineering Manufacture.										
CO4	Correlate the Recent Technique for Quality Improvement, Zero Defect.										
CO5	Examine the Methods of Inspection and Quality Appraisal, Reliability Engineering, Value Engineering and Value Analysis, Quality Motivation Techniques.										
CO6	Illustrate the Selection of ISO Model, Implementation of ISO 9000 and environmental management system.										
Mapping of Course Outcomes with Program outcomes (POs) (L/M/H indicates strength of correlation) 3-High, 2-Medium, 1-Low											
1	COs/Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
2	CO1	M	H								H
	CO2	M	M								
	CO3	M	H								
	CO4	H	M								
	CO5	H	H								
	CO6	H	M		M		H				
3	Category	Humanities & Social Studies	Basic Sciences (BS)	Engg Sciences (ES)	Professional Core (PC)	Core Elective (CE)	Non-Major Elective (NE)	Open Elective (OE)	Any other	Project/Term Paper/ Seminar/ Internship (PR)	
					✓						
4	Approval		Academic Council Meeting								

UNIT-I

9

Introduction to Quality Control - Quality and Cost Considerations - Statistics and its Applications in Quality Control.

UNIT-II

9

Sampling Inspection in Engineering Manufacture - Statistical Quality Control by the Use of Control Charts - Methods of Inspection and Quality Appraisal - Reliability Engineering – Value Engineering and Value Analysis.

UNIT-III

9

Theory of Sampling Inspection - Standard Tolerance - ABC Analysis - Defect Diagnosis and Prevention.

UNIT-IV 9
Quality Improvement: Recent Technique for Quality Improvement - Zero Defect – Quality Motivation Techniques - Quality Management System and Total Quality Control.

UNIT-V 9
Selection of ISO Model and Implementation of ISO 9000 – Human Resource Development and Quality Circles – Environmental Management System and Total Quality Control.

TEXT BOOKS:

1. Sharma sunil, “Total Quality Management”, Sage publication pvt ltd,2018.
2. Prof V.Vijayan & H. Ramakrishnan, “Total Quality Management, S.Chand,2014.
3. Dr.V.Jayakumar, Dr.R.Raju, Total Quality Management, Lakshmi Publications,2013

REFERENCE BOOKS:

1. K. Sreeja Sukumar & S. Santhosh Kumar, “Total Quality Management in Education, Abhijeet Publications,2014.
2. P. Saravanavel & S. Balakumar, “Total Quality Management, Margham Publications,2010.
3. Dale H.Besterfield et al, Total Quality Management, Third edition, Pearson Education , (First Indian Reprints 2004).

CourseCoordinator

HOD

P18MCBC302		INCOME TAX THEORY LAW & PRACTICE					L	T	P	C		
		Total Contact Hours – 60					3	1	0	4		
		Prerequisite – B.Com										
		Course Coordinator Name & Department: -Dr.J.Kannan / Commerce										
COURSE OBJECTIVES:- To acquaint Students to know the latest Income Tax Law and enable them to file Income Tax Returns.												
COURSE OUTCOMES (COs)												
CO1	Outline the fundamentals of Income Tax Act, Definition, Income, Agriculture Income, Assesse, Previous year, Assessment year, Residential Status.											
CO2	Discuss the Scope of Total Income , Capital and Revenue , Receipts and Expenditure, Exempted Incomes, Set-off and Carry Forward of Losses, Income Tax Authorities											
CO3	Practice how to Compute Profits and Gains of Business or Profession, Capital Gain and Income from other sources.											
CO4	Examine the calculation of Income from Salaries and Income from House Property.											
CO5	Interpret the Deduction from Gross Total Income and Calculation of Tax Liability.											
CO6	Prepare the Procedure for Assessment Tax Deducted at Source (TDS), Assessment of Individuals, Hindu Undivided Family, Partnership Firms and Companies.											
Mapping of Course Outcomes with Program outcomes (POs) (L/M/H indicates strength of correlation) 3-High, 2-Medium, 1-Low												
1	COs/Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	
2	CO1	H	H	M					H			
	CO2	H	H	H								
	CO3	M	M									
	CO4	H	M	M								
	CO5	H		H								
	CO6	H	M	H								
3	Category	Humanities & Social Studies (HS)	Basic Sciences (BS)	Engg Sciences (ES)	Professional Core (PC)	Core Elective (CE)	Non-Major Elective (NE)	Open Elective (OE)	Any other	Project/Term Paper/ Seminar/ Internship (PR)		
					✓							
4	Approval		Academic Council Meeting									

UNIT-I

12

Income Tax Act – Definition – Income – Agriculture Income – Assesse – Previous year – Assessment year – Residential Status – Scope of Total Income – Capital and Revenue – Receipts and Expenditure – Exempted Incomes.

UNIT-II

12

Computation of Income from Salaries and Income from House Property.

UNIT-III

12

Computation of Profits and Gains of Business or Profession – Computation of Capital Gain - Computation of Income from other sources.

UNIT-IV

12

Set-off and Carry Forward of Losses – Deduction from Gross Total Income – Computation of Tax Liability.

UNIT-V

12

Income Tax Authorities – Procedure for Assessment – Tax Deducted at Source (TDS) – Assessment of Individuals, Hindu Undivided Family, Partnership Firms and Companies.

Note: Theory 40 Marks: Problems - 60 Marks

TEXT BOOKS:

1. Dr. H.C.Mehrotra & Dr. S. P. Goyal, “Income Tax Law and Practice, Lahitya bhawan publication, Assessment year 2019-2020
2. Naveen Mittal, Principles of Income Tax Law and Practice, Cengage Learning India Pvt. Ltd, publishing year 2019
3. T.S.Reddy & Y. Hari Prasad Reddy, “Income Tax Law and Practice, Margham Publications, Assessment Year 2016-2017.

REFERENCE BOOKS:

1. Taxmann, “Income Tax Rules, Taxmann Publisher, Assessment year 2019 –2020.
2. T.S.Reddy & Hari Prasad Reddy, “Income Tax Law and Practice, Margham Publications, Assessment Year 2018-2019.
3. Girish Ahuja and Ravi Gupta: Systematic approach to income tax: Sahitya Bhawan Publications, New Delhi.

Course Coordinator

HOD

P18MCBC303		RESEARCH METHODOLOGY				L	T	P	C		
		Total Contact Hours – 45				2	1	0	3		
		Prerequisite – B.Com									
		Course Coordinator Name & Department: -Dr.J.AnuDevi-Commerce & Economics									
COURSE OBJECTIVES:- • To develop understanding of the basic framework of research process. • To develop an understanding of various research designs and techniques. • To identify various sources of information for literature review and data collection. • To develop an understanding of the ethical dimensions of conducting applied research.											
COURSE OUTCOMES (COs)											
CO1	List out the basic fundamentals of research, nature, Scope, objects of Research, Report writing and presentation.										
CO2	Explain types of Research and Steps in the process of Research.										
CO3	Use the concept of data collection , Primary and secondary data, Questionnaire construction, Philosophy and Pre-testing, Testing of Hypothesis and theory of inference										
CO4	Categorize the Research Problem, data presentation, data Processing, Methods of Statistical analysis and interpretation of Data										
CO5	Choose the methods of sampling techniques, Attitude measurement and Scales.										
CO6	Prepare Research Design , Formulation of Hypothesis and Experimental Designs										
Mapping of Course Outcomes with Program outcomes (POs) (L/M/H indicates strength of correlation) 3-High, 2-Medium, 1-Low											
1	COs/Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
2	CO1	H	H	M							H
	CO2	H	H	H							
	CO3	M	M	M							
	CO4	H	H								
	CO5	M		M							
	CO6	M	M	H							
3	Category	Humanities & Social Studies (HS)	Basic Sciences (BS)	Engg Sciences (ES)	Professional Core (PC)	Core Elective (CE)	Non-Major Elective (NE)	Open Elective (OE)	Any other	Project/Term Paper/ Seminar/ Internship (PR)	
					✓						
4	Approval		Academic Council Meeting								

UNIT-I

9

Research in Management: An Introduction – Definition, meaning and nature – Scope and objects of Research. Types of Research: Experimental Research – Survey Research – Case Study methods – ExPost Facto Research.

UNIT-II

9

Research Design – Defining Research Problem and Formulation of Hypothesis – Experimental Designs

UNIT-III

9

Research Process – Steps in the process of Research, Data Collection and Measurement: Sources of Secondary data – Methods of Primary data collection – Questionnaire construction – Attitude measurement and Scales – Sampling and Sampling Designs – Philosophy and Pre-testing.

UNIT-IV

9

Data presentation and Analysis – Data Processing – Methods of Statistical analysis and interpretation of Data – Testing of Hypothesis and theory of inference.

UNIT-V

9

Report writing and presentation –steps in Report writing - types of reports – Substance of Reports – Formats of Reports – Presentation of a Report - Documentation - Foot Note - Bibliography.

TEXT BOOKS:

1. A Thangamani Ramalingam and SN Senthil Kumar, "Essentials of Research Methodology" publisher Jaypee Brothers Medical Publishers, publish year 2019
2. C.R.Kothari Gaurav Garg, "Research Methodology methods & Techniques, New age international publishers, 2014.
3. Kumar, Ranjit, "Research Methodology", Pearson Education India, 2014.

REFERENCE BOOKS:

1. V. P. Saxena, "Research Methodology", Indira Publishing House, 2016.
2. Uma Sekaran, "Research Methods for Business", John Wiley 2015 and sons.
3. Chawla, Deepak & Sondhi, Neena (2011). Research methodology: Concepts and cases, Vikas Publishing House Pvt. Ltd. Delhi.

Course Coordinator**HOD**

P18MCBC304		PROJECT MANAGEMENT					L	T	P	C	
		Total Contact Hours – 45					2	1	0	3	
		Prerequisite – B.Com									
		Course Coordinator Name & Department: -Ms.V.Saillaja / Commerce									
COURSE OBJECTIVES:- To impart knowledge on the formation of projects to implementation of projects.											
COURSE OUTCOMES (COs)											
CO1	List the types of project and project life cycle.										
CO2	Choose the opportunities for investment and screening methods for project.										
CO3	Interpret the objectives and essentials of a project methodology and its types.										
CO4	Produce the concept of project execution, project administration, project communication and Project control.										
CO5	Predict the Scheduling to match availability of man power and release of funds.										
CO6	Select the factors influencing effective project management, project time monitoring and cost monitoring.										
Mapping of Course Outcomes with Program outcomes (POs) (L/M/H indicates strength of correlation) 3-High, 2-Medium, 1-Low											
1	COs/Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
2	CO1	H									H
	CO2	H	M								
	CO3	H	M								
	CO4	M									
	CO5	H	M								
	CO6	H									
3	Category	Humanities & Social Studies (HS)	Basic Sciences (BS)	Engg Sciences (ES)	Professional Core (PC)	Core Elective (CE)	Non-Major Elective (NE)	Open Elective (OE)	Any other	Project/Term Paper/ Seminar/ Internship (PR)	
					✓						
4	Approval		Academic Council Meeting								

UNIT-I

9

Project – Meaning – Nature – Types of project and project life cycle – Project management – Nature and scope of project management– Project management as a profession – Role of project manager.

UNIT-II

9

Project Identification and Formation: Project environment – Identification of investment opportunities – Projects screening – Feasibility study – Project selection – Project formulation – Stages in project formulation – Project report preparation – Planning Commission's guidelines for project formulation.

UNIT-III

9

Project Appraisal: Objectives, essentials of a project methodology – Market appraisal – Technical appraisal – Financial appraisal – Socio – economic appraisal – Management appraisal

UNIT-IV

9

Project Planning and Scheduling: Objectives – Process or Planning Components or good planning – Project designing and project scheduling and time estimation – Scheduling to match availability of man power and release of funds – Cost and time.

UNIT-V

9

Project Execution and Administration – Project contracting: Contract pricing, types – Project organization: Forms of organization – Project direction – Project communication – Project co ordination – Factors influencing effective project management – project time monitoring and cost monitoring – Project over runs. Project Control: Control techniques – PERT, CPM–Project audit.

TEXT BOOKS:

1. Vishwanath Murthy, “ Project Management – The Complete Process (with case Studies from Renewable Energy Sector), ViskasPublishing,2019
2. Gray and Larson and Desai , “Project Management”, Publisher McGraw Hill, publish year2014
3. Rosa T. Williams, “Project Management”, Random Exports Publishers & Distributors, 1st January2013.

REFERENCE BOOKS:

1. Kalpesh Ashar, “Project Management (Essentials you always wanted to know), Vibrant Publishers,7th September2019.
2. Bhanesh Patel, “Project Management”, Vikas Publishing, 2018, 2ndEdition.
3. Bob Hughes, Mike Cotterell and Rajib Mall: Software Project Management – Fifth Edition, Tata McGraw Hill, New Delhi, 2012

Course Coordinator

HOD

P18MCBC305	MARKETING MANAGEMENT					L	T	P	C		
	Total Contact Hours – 60					3	1	0	4		
	Prerequisite – B.Com										
	Course Coordinator Name & Department: -Ms.G.Santhoshkumar/Commerce& Economics										
COURSE OBJECTIVE:- - Enable students to assess market opportunities by analyzing customers, competitors, collaborators, context, and the strengths and weaknesses of a company. - Develop effective marketing strategies to achieve organizational objectives.											
COURSE OUTCOMES (COs)											
CO1	List the philosophies of Marketing Management.										
CO2	Describe the process of marketing management and discuss about the strategic planning.										
CO3	Interpret the factors influencing Consumer Behaviour and process of buying decision.										
CO4	Identify the strategies and approaches of pricing and compare the consumer and industrial products.										
CO5	Estimate the concept of Sales Force decisions, Selection, Training, Compensation and Control.										
CO6	Prepare an awareness of Consumer Rights in the Market Place and formulate the Vertical, Horizontal and Multi-channel Systems Consumer Protection.										
Mapping of Course Outcomes with Program outcomes (POs) (L/M/H indicates strength of correlation) 3-High, 2-Medium, 1-Low											
1	COs/Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
2	CO1	M	M						H		
	CO2	H			H						
	CO3	H	M	H							
	CO4	M	H								
	CO5	M									
	CO6	H									
3	Category	Humanities & Social Studies (HS)	Basic Sciences (BS)	Engg Sciences (ES)	Professional Core (PC)	Core Elective (CE)	Non-Major Elective (NE)	Open Elective (OE)	Any other	Project/Term Paper/ Seminar/ Internship (PR)	
					✓						
4	Approval		Academic Council Meeting								

UNIT-I

12

Introduction: Marketing Management Philosophies – What is marketing – The concepts of marketing.- E-Marketing – Social Media Marketing.

UNIT-II

12

Strategic Planning – Marketing Management Process – Analysis of Marketing opportunities, Selecting Target Consumers, Developing Marketing Mix Analysis of Macro and Micro environment Marketing Research as an Aid to Marketing, Marketing Research Process – Sales Forecasting – Techniques.

UNIT-III

12

Buyer behaviour: Factors Influencing Consumer Behaviour – Buying Situation – Buying Decision Process – Industrial Buyer Behaviour. Market Segmentation: Targeting and Positioning - Competitive Marketing Strategies.

UNIT-IV**12**

Product Policies – Consumer and Industrial Product Decisions, Branding, Packaging and Labeling – New Product Development and Product life Cycle Strategies - Pricing – Pricing strategies and approaches.

UNIT-V**12**

Promotion Decisions: Promotion Mix - Advertising – Sales Promotion - Sales Force decisions, Selection, Training, Compensation and Control – Publicity and Personal Selling – Channel Management: Selection, Co-operation and Conflict Management – Vertical, Horizontal and Multi-channel Systems Consumer Protection – Awareness of Consumer Rights in the Market Place.

TEXT BOOKS:

1. Philip Kotler, “Marketing Management (With Indian Case Study), Pearson, 31 July 2017.
2. R.S.N. Pillai, “Marketing Management, S. Chand, 2012.
3. R.S.N. Pillai & Bagavathi, “Marketing Management, S. Chand publishing, 2012.

REFERENCE BOOKS:

1. R S N Pillai & Bagavathi S. Chand Publishing Marketing Management 2018.
2. Arun Kumar & N. Meenakshi, “Marketing Management, Vikas Publishing, 2016.
3. McCarthy, E.J., Basic Marketing: A managerial approach, Irwin, New York.

Course Coordinator**HOD**

P18MEBC022	INTERNATIONAL TRADE					L	T	P	C			
	Total Contact Hours – 60					3	1	0	4			
	Prerequisite – B.Com											
	Course Coordinator Name & Department:-Dr.J.Anudevi / Commerce & Economics											
COURSE OBJECTIVES												
• Provide students with the fundamental concepts of foreign trade. • Introduce students to concepts of terms of trade. • Enable the students to learn about various trade policies. • Gain familiarity on tariff and balance of payments.												
COURSE OUTCOMES (COs)												
CO1	Identify the Differences between domestic and International business.											
CO2	Explain the fundamentals concepts of foreign trade.											
CO3	Use obtained exposure to terms of trade and its impact.											
CO4	Identify basic concepts of tariff and balance of payments.											
CO5	Sketch International networks for settlements											
CO6	Categorize Structure and Functions of IBRD, IFC and WTO.											
Mapping of Course Outcomes with Program outcomes (POs) (L/M/H indicates strength of correlation) H-High, M-Medium, L-Low												
1	COs/Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	
2	CO1	H	M							H		
	CO2	M	M									
	CO3	H	M									
	CO4	M	M									
	CO5	H	H			M						
	CO6	H	H									
3	Category	Humanities & Social Studies (HS)	Basic Sciences (BS)	Engg Sciences (ES)	Professional Core (PC)	Core Elective (CE)	Non-Major Elective (NE)	Open Elective (OE)	Any other	Project/Term Paper/ Seminar/ Internship (PR)		
						✓						
4	Approval		Academic Council Meeting									

UNIT-I 12

International Business – Meaning – Definition – Features – Differences between domestic and International business.

UNIT-II 12

Structure of India's foreign trade: Composition and Direction – EXIM Bank – EXIM Policy of India.

UNIT-III 12

Foreign Direct Investment in the world economy–Benefits and advantages to host and home countries- Regional Economic Integration: SAARC, ASEAN,NAFTA.

UNIT-IV 12

International Financial Institutions – World Bank – IMF- Structure and Functions of IBRD – IFC - WTO.

UNIT-V 12

Foreign Investment Institutions: Instruments - GDRs, ADRs, FIIs – Role in Indian capital market- International networks for settlements – SWIFT – CHIPS – CHAPS – FFDFIRE.

TEXT BOOK:

1. Dr. C B Gupta, International Trade, S.Chand Publishing,2014
2. Dr. S. Sankaran, International Trade, Marham Publications,2014
3. Francis Cherunilam, International Trade and Export Management, Himalaya Publis hing House, Fifth Edition2013.

REFERENCE BOOKS:

1. Hill.C.W; Competiting In The Global Market Place, Irwin , Mcgraw Hill, Third Edition2014.
2. Charles W.L,Hill,Irwin, International Business, Mcgraw Hill, Fourth Edition2014.
3. Philip R.Cateora , International Marketing , Irwin Mcgraw Hill, Ninth Edition2012.

Course Coordinator

HOD

P18MEBC023	MANAGEMENT INFORMATION SYSTEM					L	T	P	C		
	Total Contact Hours – 60					3	1	0	4		
	Prerequisite – B.Com										
	Course Coordinator Name & Department:- Ms. R.Priya / Commerce & Economics										
COURSE OBJECTIVES:- - To enable the students understand the concept Management Information system and implementation. - To Display proficiency solving business problems using modern productivity tools.											
COURSE OUTCOMES (COs)											
CO1	Recognize the management information system decision support										
CO2	Express the in depth knowledge about concept of Business systems										
CO3	Initiate on students to learn about Information systems for business operations										
CO4	Estimate the learned basic knowledge about Information systems for Managerial Decision support										
CO5	Examine the Learned basic knowledge about Information systems for strategic advantage										
CO6	Employ Artificial Intelligence Technologies.										
Mapping of Course Outcomes with Program outcomes (POs) (L/M/H indicates strength of correlation) H-High, M-Medium, L-Low											
1	COs/Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
2	CO1	H	M					H			H
	CO2	H	H								
	CO3	H	M								
	CO4	H	H				H				
	CO5	H	M				H				
	CO6	H	H				H				
3	Category	Humanities & Social Studies	Basic Sciences (BS)	Engg Sciences (ES)	Professional Core (PC)	Core Elective (CE)	Non-Major Elective (NE)	Open Elective (OE)	Any other	Project/Term Paper/ Seminar/ Internship (PR)	
						✓					
4	Approval		Academic Council Meeting								

UNIT-I

12

Introduction To Business Systems: Need for IS in Business – fundamentals of IS – System concepts – Components of IS – IS resources Activities – Overview of IS – Operation Support Systems, Management Support Systems, Other Classification – System approach to Problem solving – Global business scenario – trends in technology and applications.

UNIT-II

12

Information Systems for Business Operations: Business Information Systems – Marketing Information Systems – Manufacturing Information Systems – Human Resource Information Systems – Accounting Information Systems, Financial Information Systems – Transaction Processing System.

UNIT-III

12

Information Systems for Managerial Decision Support: Management Information & Decision Support Systems – Management Information Systems – Expert Systems – Examples, Executive Information Systems – Artificial Intelligence Technologies.

UNIT-IV**12**

Information Systems for Strategic Advantage: Strategic roles of IS – Breaking Business Barriers – Reengineering Business Processes Improving Business Quality – Creating Virtual Company – Building knowledge Creating Company – Using Internet Strategically – Challenges of Strategic IS – Enterprise – wide systems and E-Business applications. Internet and GST: Online Registration and filing of returns.

UNIT-V**12**

Managing Information Systems: Enterprise Management – Information Resource Management – Strategic Management, Operational Management – Resource Management Technology Management – Distributed Management. Organizing Planning – IS planning methodologies – Critical Success Factors – Business Systems Planning – Computer Aided Planning Tools, Security & Ethical Challenges; IS controls – Facility Controls – Procedural Controls – Computer Crime – Privacy Issues.

TEXT BOOKS:

1. A.K. Gupta, Management Information System, S. Chand Publication, 2017
2. Jane P. Laudon & Kenneth C. Laudon, “Management Information Systems”, Pearson Publication, 2011.
3. Mohapatra Sanjay, “Cases in Management Information System”, PHI Learning, 2008.

REFERENCE BOOKS:

1. Ramesh Behl & James A.O. Brien & George M. Marakas, “Management Information System, MC Graw Hill, 2018. Patricia Wallace, “Introduction to Information System”, Pearson Publication, 2015.
2. Raymond McLeod, Management Information System, September 1983.
3. Management Information Systems, Jaiswal and Mittal, Oxford Printing Press, 2012.

Course Coordinator**HOD**

P18MCBC401	INVESTMENT MANAGEMENT					L	T	P	C		
	Total Contact Hours – 45					2	1	0	3		
	Prerequisite – B.Com										
	Course Coordinator Name & Department:-Dr.D.Venkatramaraju / Commerce & Economics										
COURSE OBJECTIVES:- - To Understand different investment alternatives in the market - To gain knowledge how securities are traded in the market.											
COURSE OUTCOMES (COs)											
CO1	Recall the Nature and scope of Investment Management.										
CO2	Discuss to the Parties involved in the new issue market.										
CO3	Employ the Security Analysis.										
CO4	Examine the Stock Exchanges NSE and BSE.										
CO5	Compare the Traditional and Modern approach.										
CO6	Reconstruct the types Mutual Fund Operations in India.										
Mapping of Course Outcomes with Program outcomes (POs) (L/M/H indicates strength of correlation) H-High, M-Medium, L-Low											
1	COs/Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
2	CO1	H	M							H	
	CO2	H	H								
	CO3	H	M	H							
	CO4	H	M								
	CO5	M	M								
	CO6	M	H								
3	Category	Humanities & Social Studies	Basic Sciences (BS)	Engg Sciences (ES)	Professional Core (PC)	Core Elective (CE)	Non-Major Elective (NE)	Open Elective (OE)	Any other	Project/Term Paper/ Seminar/ Internship (PR)	
					✓						
4	Approval		Academic Council Meeting								

UNIT-I

9

Investment Management - Nature and scope - Objectives – Process – Investment Media Security and Non-security forms of Investment - gilt edged securities – Sources of Investment information.

UNIT-II

9

New Issues Market – Methods of Issuing – Parties involved in the new issue market – Secondary market – Stock Exchanges – NSE and BSE – Trading mechanism – online trading – SEBI and Investors production.

UNIT-III

9

Security Analysis – Approaches – Fundamental Analysis – Technical Analysis – Dow Theory – Random Walk Theory – Efficient Market Hypothesis

UNIT-IV

9

Portfolio Analysis – Traditional and Modern approach – Rationale of Diversification of Investments – Markovitz theory – Sharpe Index Model - Capital Asset Pricing Model

UNIT-V

9

Investment companies in India – Types Mutual Fund Operations in India – UTI – SEBI and RBI Guidelines for Mutual Funds

TEXT BOOKS:

1. Prasanna Chandra, “Investment analysis and Portfolio Management”, McGraw Hill, 1st July 2017, 5th Edition.
2. V.K. Bhalla, “Fundamentals of Investment Management”, S.Chand & Company, 1st December 2010.
3. Yogesh Maheshwari, Investment Management 2008.

REFERENCE BOOKS:

1. Zvi Bodie, Alex Kane, Alan J. Marcus Pitabas Mohanty, “Investments”, Mc Graw Hill Education. 10th Edition, 1st July 2017.
2. Dr. L. Natarajan, “Investment Management (Security analysis & Portfolio Management”, Margham Publications, 1st January 2012.
3. Bhalla V.K, Investment Management – 1 June 2008

Course Coordinator

HOD

P18MCBC402	ADVANCED COST & MANAGEMENT ACCOUNTING					L	T	P	C		
	Total Contact Hours – 60					3	1	0	4		
	Prerequisite – B.Com										
	Course Coordinator Name & Department:-Dr.J.Kannan / Commerce & Economics										
COURSE OBJECTIVES											
- To make students understand the basic accounting equation and accounting principles and making them understand the process of preparation of financial statements. - To expose students to tools and techniques of financial statement analysis. - To equip student’s with the ability to analyze and understand company’s financial situation - To expose students to fundamentals of cost and variable costing											
COURSE OUTCOMES (COs)											
CO1	Define the meaning, objectives, Nature and Scope of Cost Accounting										
CO2	Determine the Remuneration method.										
CO3	Practice the normal and abnormal loss and gains.										
CO4	Calculate the Ratio analysis.										
CO5	Estimate the Management Accounting.										
CO6	Formulate the types of budget.										
Mapping of Course Outcomes with Program outcomes (POs) (L/M/H indicates strength of correlation) H-High, M-Medium, L-Low											
1	COs/Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
2	CO1	H	H	H					H		
	CO2	H			M						
	CO3	H	H								
	CO4	H		M							
	CO5	H	M								
	CO6	M	M								
3	Category	Humanities & Social Studies (HS)	Basic Sciences (BS)	Engg Sciences (ES)	Professional Core (PC)	Core Elective (CE)	Non-Major Elective (NE)	Open Elective (OE)	Any other	Project/Term Paper/ Seminar/ Internship (PR)	
					✓						
4	Approval		Academic Council Meeting								

UNIT-I

12

Cost Accounting – meaning – objectives – Nature and Scope – methods of costing – techniques of costing - classification and coding of costs – inventory control – stock levels – inventory systems - methods of pricing material issues.

UNIT-II

12

Labour costs – Direct and indirect – importance –Remuneration method – labour performance reports – labour turnover and stability – Overheads – Importance – allocation and apportionment of overheads - overhead cost control.

UNIT-III

12

Process costing - normal and abnormal loss and gains – equivalent production - joint product and by product - contract costing.

UNIT-IV

12

Management Accounting – Nature & Scope – Tools and Techniques – Ratio analysis – marginal costing– cost-volume profit analysis – Break-even analysis – utility and limitations of cost volume profit analysis – Financial

and profit planning – objectives.

UNIT-V

12

Budget administration – types of budget – advantages – budgeting and budgetary control - Standard Costing, Material, Labour and Overhead variances.

Note: Theory 40 Marks: Problems 60 Marks

TEXT BOOKS:

1. V.K. Saxena, C. D. Vashist, “Advanced Cost & Management Accounting”, Sultan Chand, 1st January 2015.
2. Ravi M. Kishore, “Cost & Management Accounting” Taxmann, 1st January 2018.
3. Advanced Management Accounting - Cost Management, J.B Gupta (3rd Edition).

REFERENCE BOOKS:

1. Sanjay, “Cost & Management Accounting” SBPD Publishing House (Sahitya Bhawan Publishers & Distributors Pvt Ltd), 2015 1st Edition.
2. R.K. Shukla, “Cost & Management Accounting”, Bharat Law, 1st January 2017.
3. Cost & Management Accounting, Reliance Publications.

Course Coordinator

HO

P18MCBC403	STRATEGIC MANAGEMENT					L	T	P	C		
	Total Contact Hours – 45					2	1	0	3		
	Prerequisite – B.Com										
	Course Coordinator Name & Department:-Mr.S.Robin / Commerce & Economics										
COURSE OBJECTIVES:- - To provide insights into the core concepts of strategic management. - To evaluate various business strategies in dynamic market environments. - To gain insights into various strategic management models.											
COURSE OUTCOMES (COs)											
CO1	Identify the Scope and Benefits of Strategic Management.										
CO2	Describe the Business Strategy and Corporate Strategy.										
CO3	Demonstrate the Cyert and March’s Behavioural Theory.										
CO4	Measure the SWOT Analysis.										
CO5	Classify Diversification, Acquisition and Joint Venture										
CO6	Illustrate Strategic Control and Evaluation.										
Mapping of Course Outcomes with Program outcomes (POs) (L/M/H indicates strength of correlation) H-High, M-Medium, L-Low											
1	COs/Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
2	CO1	H	M							H	
	CO2	M	M					H			
	CO3	M		H							
	CO4	H	M								
	CO5	M									
	CO6	H						M			
3	Category	Humanities & Social Studies	Basic Sciences (BS)	Engg Sciences (ES)	Professional Core (PC)	Core Elective (CE)	Non-Major Elective (NE)	Open Elective (OE)	Any other	Project/Term Paper/ Seminar/ Internship (PR)	
					✓						
4	Approval		Academic Council Meeting								

UNIT-I

9

Strategic Management – Definition – Scope – Benefits – Risks – Approaches – Models – Strategic change – Strategic Leadership and Decision making.

UNIT-II

9

Situation Analysis – SWOT Analysis - Environmental Scanning and Industry analysis – Forecasting – Internal Scanning - Mission – objectives – Stakeholder Theory – Cyert and March's Behavioural Theory – Objectives of Non-Profit Organizations – Social Responsibility and Business Ethics.

UNIT-III

9

Strategy Formulation – Business Strategy – Corporate Strategy – Diversion Strategy – Portfolio Analysis – BCG Growth /Share matrix – Strategic choice – Development of policies – Strategic Alliances.

UNIT-IV

9

Strategy Implementation – Organization for action – Staffing – Strategic leadership – MBO – Total Quality Management – Functional Strategies – Growth Strategies – Diversification, Acquisition and Joint Venture – Recovery – Recession and Divestments Strategies – Management Burnout.

UNIT-V

9

Strategic Control and Evaluation – Establishing Strategic control – premise control – Implementation control – Strategic Surveillance – Special Alert Control – Evaluation Techniques – Managing change – Strategic issues in Managing Technology and Innovation – Strategic Effectiveness.

TEXT BOOKS:

1. Dr. C.B. Gupta, “Strategic Management (Text and Cases), S.Chand, 4 July2016.
2. Azhar Kazmi, “Strategic Management”, Mc Graw Hill Publication, 1st July 2017, 4thEdition.
3. Mary Coulter , Strategic Management in Action, 6thEdition

REFERENCE BOOKS:

1. R. Srinivasan, “ StrategicManagement”
2. Dr Mary A. Coulter, Missouri State University Strategic Management in Action, 6thEdition.
3. Strategic Management in Action, Jerald Smith, Mary K Coulter, and Peggy AGolden.

Course Coordinator

HOD

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P18MEBC031	CHANGE MANAGEMENT					L	T	P	C		
	Total Contact Hours – 60					3	1	0	4		
	Prerequisite – UG Level										
	Course Coordinator Name & Department:-Dr.D.VenkataramaRaju / Commerce										
COURSE OBJECTIVES:- - To Identify the types of changes that occur in organizations - To analyze the main components of planning and structuring a change											
COURSE OUTCOMES (COs)											
CO1	Recall the Nature, forces, types and models of organizational change.										
CO2	Recognize the Progress and challenges in organizational change management.										
CO3	Apply the Mapping change.										
CO4	Categorize the intervention strategy model and total project management model.										
CO5	Measure the Systems approach to change.										
CO6	Sketch the total project management model.										
Mapping of Course Outcomes with Program outcomes (POs) (L/M/H indicates strength of correlation) H-High, M-Medium, L-Low											
1	COs/Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
2	CO1	M	H								H
	CO2	H	H	H							
	CO3	M	M								
	CO4	M	M								
	CO5	M									
	CO6	H	M								
3	Category	Humanities & Social Studies	Basic Sciences (BS)	Engg Sciences (ES)	Professional Core (PC)	Core Elective (CE)	Non-Major Elective (NE)	Open Elective (OE)	Any other	Project/Term Paper/ Seminar/ Internship (PR)	
						✓					
4	Approval		Academic Council Meeting								

UNIT-I	12
Nature, forces, types and models of organizational change - impact of change, transition management.	
UNIT-II	12
Progress and challenges in organizational change management - learning organization, role of politics.	
UNIT-III	12
Motivating and enabling change, managing complex major changes Effective change leader.	
UNIT-IV	12
Mapping change – the cultural web – cultural attributes to change – resistance to change.	
UNIT-V	12
Systems approach to change, intervention strategy model, total project management model.	

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TEXT BOOKS:

1. Leading change, "John P. Kotler", McMillian Publishers, 2012.
2. Change Management (A guide of effective implementation), " Robert A. Paton A James, Mc Calman, 2009.
3. Creating organizational transitions, McKinsey Global Survey Results, McKinsey Quarterly, July 2012

REFERENCE BOOKS:

1. Management & organizational Behaviour, "Dr. S. C. Saksena & Dr. Gaurav Sankalp, Shityan Bhawan Publication,
2. Leadership Excellence Murphy, M. Why CEOs get fired, September, 2005.
3. Best Practices in Change Management, Prosci, 2016.

Course Coordinator

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P18MEBC032	FINANCIAL MARKETS AND SERVICES					L	T	P	C			
	Total Contact Hours – 60					3	1	0	4			
	Prerequisite –B.Com											
	Course Coordinator Name & Department:-Ms.G.Vinothini / Commerce											
COURSE OBJECTIVES:- - To understand the intricacies of the macro aspects of Indian Financial Systems and relating it with corporate decision-making. - To get in depth knowledge about financial services - To familiarize various types and sources of financial services and its uses.												
COURSE OUTCOMES (COs)												
CO1	Record the Overview of Financial systems In India.											
CO2	Differentiate the Capital Markets & Money Markets.											
CO3	Demonstrate the capital market services & money market services.											
CO4	Correlate the financing pattern											
CO5	Estimate the credit rating: CRISIL, ICRA & care.											
CO6	Model the working of public and private mutual funds in India											
Mapping of Course Outcomes with Program outcomes (POs) (L/M/H indicates strength of correlation) H-High, M-Medium, L-Low												
1	COs/Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	
2	CO1	H	H	M					H			
	CO2	H	H		M							
	CO3	H	M	M								
	CO4	M	M									
	CO5	M	H		M							
	CO6	M	L									
3	Category	Humanities & Social Studies (HS)	Basic Sciences (BS)	Engg Sciences (ES)	Professional Core (PC)	Core Elective (CE)	Non-Major Elective (NE)	Open Elective (OE)	Any other	Project/Term Paper/ Seminar/ Internship (PR)		
						✓						
4	Approval		Academic Council Meeting									

UNIT-I

12

Overview of Financial systems In India – Structure, Regulation Role And Functions Of Financial Systems – Financial Instruments – Financial Markets – Capital Markets & Money Markets – Interlink Between Money Market & Capital Market – Characteristics Of Financial Markets – Functions Of Stock Exchange – Introduction To Forex.

UNIT-II

12

Objectives of financial services – types of financial services – capital market services & money market services – intermediaries: banking financial corporations, non banking financial corporations & insurance corporations – financial services sector problems and reforms.

UNIT-III

12

Venture capital: growth of venture capital in India – financing pattern – legal aspects and guidelines for venture capital – leasing- types of leases – leasing vs borrowing - credit rating : CRISIL, ICRA & care – factoring, forfeiting- bill discounting – types of factoring arrangements – factoring in Indian context.

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UNIT-IV

12

Mutual funds: concepts and objectives – functions and portfolio classification-guidelines for mutual funds – working of public and private mutual funds in India – debt securitisation – de-mat services – need and operations –role of NSDL & CSDL.

UNIT-V

12

Regulatory & legal framework of government in banking-- role of RBI –functions of stock exchange - listing & formalities in stock exchange – laws governing SEBI -- role of SEBI – laws governing non banking financial corporations – laws pertaining anti- money laundering.

TEXT BOOKS:

1. I M. Bhole , Financial Institutions and Market, TATA McGraw Hill
2. Financial Markets and Institutions” - Frederic S Mishkin and Stanley Eakins.
3. “ Financial Markets Institutions and Financial Services” - Dr Vinod Kumar/Atul Gupta /Manmeet Kaur.

REFERENCE BOOKS:

1. V.A. Avadhani , Marketing of Financial Services, Himalayas Publishers, Mumbai
2. Vasant Desai, Indian Financial Systems, Himalaya Publishers
3. Financial Institutions and Markets” - Bhole.

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P18MEBC021	INTERNATIONAL ECONOMICS					L	T	P	C			
	Total Contact Hours – 60					3	1	0	4			
	Prerequisite – B.Com											
	Course Coordinator Name & Department:-Ms. J.Saranya / Commerce											
COURSE OBJECTIVES:- To introduce the students about both classical and modern theories of international trade in goods and services, as well as empirical research on trade.												
COURSE OUTCOMES (COs)												
CO1	Recall the basic concept theories, international trade.											
CO2	Discuss the fundamentals concepts of foreign trade.											
CO3	Demonstrate on exposure to terms of trade and its impact.											
CO4	Categorize the concepts of tariff and balance of payments.											
CO5	Identify Measures for Correcting disequilibrium											
CO6	Summarize about various trade policies.											
Mapping of Course Outcomes with Program outcomes (POs) (L/M/H indicates strength of correlation) H-High, M-Medium, L-Low												
1	COs/Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	
2	CO1	H	M								H	
	CO2	L	M									
	CO3	M	M									
	CO4	H	H									
	CO5	H	L									
	CO6	H	M									
3	Category	Humanities & Social Studies (HS)	Basic Sciences (BS)	Engg Sciences (ES)	Professional Core (PC)	Core Elective (CE)	Non-Major Elective (NE)	Open Elective (OE)	Any other	Project/Term Paper/ Seminar/ Internship (PR)		
						✓						
4	Approval		Academic Council Meeting									

UNIT-I

12

Foreign Trade - Need, Inter Regional and International Trade, Theories of International Trade - Adam Smith - Ricardo, Haberler and Heckscher - Ohlin Theory.

UNIT-II

12

Terms of Trade - different Concepts of Terms of Trade - Determinants of Terms of trade - static and dynamic gains from trade - capital saving and labour saving technologies and its impact on terms of trade.

UNIT-III

12

Gains from trade - Trade Policy - Free Trade: Meaning - Case for and against Free Trade. Protection: Meaning - Arguments for and against protection.

UNIT-IV

12

Tariff: Meaning and types - Effects of Tariff. Quotas: Meaning and Types - Effects of quotas on imports.

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UNIT-V

12

Balance of payment - Meaning - Structure - Balance of Payment and Balance of Trade - Disequilibrium in BOP & BOT - Causes for disequilibrium in BOP - Measures for Correcting disequilibrium.

TEXT BOOKS:

1. Dr H L Hhatia, International Economics, Vikas Publishing, 2018.
2. Paul R. Krugman, Maurice Obstfeld, Marc Melitz, International Economics: Theory and Policy, Pearson Publications, 1 Dec 2017.
3. Dominick Salvatore, International Economics: Trade and finance, Wiley Publications, 11th Edition, 1 Jan 2014

REFERENCE BOOKS:

1. M.L. Jhingan, International Economics, Vrinda Publications, 1 Jan 2016.
2. H.G. Mannur, International Economics, 2/e, Vikas Publications, 1 Jan 2018.
3. Feenstra, R. Advanced International Trade. Princeton University Press, 2004.

Course Coordinator

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P18MEBC033	PORTFOLIO MANAGEMENT					L	T	P	C			
	Total Contact Hours – 60					3	1	0	4			
	Prerequisite – B.Com											
	Course Coordinator Name & Department:- Dr.J.Kannan / Commerce & Economics											
OBJECTIVES												
- To familiarize about portfolio management. - To read about asset classes and risks involved in it and selection process. - To get detailed knowledge about alternative investments and strategic commodities.												
COURSE OUTCOMES (COs)												
CO1	List the Institutional client objectives and preferences.											
CO2	Discuss the Basic Asset Allocation Techniques.											
CO3	Practice the Advanced Asset Allocation Techniques.											
CO4	Analyze the Fixed Income Portfolio Value Distributions.											
CO5	Predict the Alternative Investments.											
CO6	Classify Strategic Commodities.											
Mapping of Course Outcomes with Program outcomes (POs) (L/M/H indicates strength of correlation) H-High, M-Medium, L-Low												
1	COs/Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	
2	CO1	M	M	M						H		
	CO2	M	M	M								
	CO3	M	M	M								
	CO4	H	M									
	CO5	H	H									
	CO6	M		H								
3	Category	Humanities & Social Studies (HS)	Basic Sciences (BS)	Engg Sciences (ES)	Professional Core (PC)	Core Elective (CE)	Non-Major Elective (NE)	Open Elective (OE)	Any other	Project/Term Paper/ Seminar/ Internship (PR)		
						✓						
4	Approval		Academic Council Meeting									

UNIT-I

12

Introduction to Portfolio Management: Investment Policy Statement - Institutional client objectives and preferences - Individual/Private client objectives and preferences.

UNIT-II

12

Asset Classes, Risk Premia, and Asset Allocation - Basic Asset Allocation Techniques (mean variance; passive approach)- Advanced Asset Allocation Techniques (alpha strategies; active approach).

UNIT-III

12

Asset Selection: Equity, Fixed Income Investments - Equity Asset Class Characteristics- Equity Portfolio Risk - Fixed Income Asset Class Characteristics. - Roles of Duration, Convexity - Fixed Income Portfolio Value Distributions.

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UNIT-IV	12
Alternative Investments- Private Equity- Hedge Funds - Venture Capital- REITs.	
UNIT-V	12
Strategic Commodities: Oil, Gold	

TEXT BOOKS:

1. S. Kevin, Security Analysis and Portfolio management, Prentice Hall India Publications, 2006.
2. Portfolio Management for New Products, Elko J. Kleinschmidt, Robert Cooper, and Scott J. Edgett
3. Portfolio Management for New Products, 2nd Edition, G. Cooper, Scott J. Edgett, and Elko J. Kleinschmidt

REFERENCE BOOKS:

1. Prasanna Chandra, Investment Analysis and Portfolio Management, Mc Graw Hill India Publications, 5th edition, 2017.
2. S. Kevin, Portfolio Management, Prentice Hall India Publications, 2nd edition, 2006.
3. Robert G. Cooper, Scott J. Edgett, Elko J. Kleinschmidt, Portfolio Management for New Products.

Course Coordinator

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P18PRBC4P1	PROJECT (DISSERTATION AND VIVA-VOCE)					L	T	P	C			
	Total Contact Hours – 45					0	0	18	9			
	Prerequisite – B.Com											
	Course Coordinator Name & Department:-Dr.J.Anudevi / Commerce											
COURSE OBJECTIVES:- To facilitate the students to understand the Business enterprises systematically and present the research report as per the acceptable format.												
COURSE OUTCOMES (COs)												
CO1	Define the objectives and purpose of the project.											
CO2	Choose the Basic chapters of the project.											
CO3	Initiate the new Techniques in the project.											
CO4	Analyze the data of the research.											
CO5	Estimate the Alternatives of the project.											
CO6	Model the interpretations of the project.											
Mapping of Course Outcomes with Program outcomes (POs) (L/M/H indicates strength of correlation) H-High, M-Medium, L-Low												
1	COs/Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	
2	CO1	H	H	M							H	
	CO2	H	H	M								
	CO3	H	H	H								
	CO4	H	M									
	CO5	H	H	H								
	CO6	H	M	M								
3	Category	Humanities & Social Studies (HS)	Basic Sciences (BS)	Engg Sciences (ES)	Professional Core (PC)	Core Elective (CE)	Non-Major Elective (NE)	Open Elective (OE)	Any other	Project/Term Paper/ Seminar/ Internship (PR)		
										✓		
4	Approval		Academic Council Meeting									

PROJECT (DISSERTATION AND VIVA-VOCE)

9

The project topics are to be finalized to the students at the end of the second semester with a time schedule to carryout various stages of work. During the semester vocation, the data Collection may be commenced. The theme selected by each student for the Dissertation should be related to various problems and issues pertaining to Commerce. Each candidate should submit three copies of dissertation as per the guidelines to the department concerned.

Marks

Dissertation	150
Viva- Voce Examination	50

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Department of Commerce

P18OEBA001	ADVERTISING AND SALES MANAGEMENT						L	T	P	C	
	Total Contact Hours – 30						2	0	0	2	
	Prerequisite course –UG Level										
	Course Coordinator Name & Department:- T Manjiniprakash/BBA										
COURSE OBJECTIVES: - - Identify the terms and concepts that are commonly used in promotion and advertising. - Demonstrate preparation to comprehend the basic advertising. - Give the relationship which underlines these terms and conceptsTo familiarize the students with the basic fundamentals of accounting. - To impart knowledge on final accounts of sole trading concern. - To enable the students on the concept of income & expenditure and receipts and payments.											
COURSE OUTCOMES (COs)											
CO1	Students gain basic knowledge of Advertising its functions, roles and development of advertising.										
CO2	Know about Advertising design and its strategies.										
CO3	Expose on Advertising, media and about its types.										
CO4	To forecast sales and its techniques used in management.										
CO5	Students were enriched about salesmanship, sales planning, budgeting.										
CO6	Develop an advertising plan and present and defend it persuasively.										
Mapping of Course Outcomes with Program outcomes (POs) (1/2/3 indicates strength of correlation) 3-High, 2-Medium, 1-Low											
1	COs/Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PS O1	PS O2	PS O3
2	CO1	L	M						M	L	
	CO2	H	L								
	CO3	L	H								
	CO4	H	L								
	CO5	L	M								
	CO6	M	L								

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3	Category	Humanities & Social Studies (HS)	Basic Sciences (BS)	Engg Sciences (ES)	Core Elective (CE)	Non-Major Elective (NE)	Open Elective (OE)	Project/Term Paper/ Seminar/ Internship (PR)
							✓	
4	Approval	Academic Council Meeting						

UNIT - I

6

Introduction to Advertising- Definition -Roles of Advertising- Functions of Advertising-Steps in Development of Advertisement

UNIT – II

6

Advertising Design- Appeals- Structure of an Advertisement - Message Strategies - Cognitive strategy- Executorial Strategies-Creating Advertising- Advertising Effectiveness.

UNIT-III

6

Advertising Media - Merit and demerits- Kinds of Advertising - Advertising Media- print media - Broadcasting media- Non-media advertising- online advertising.

UNIT – IV

6

Sales Management - Defining - Objectives -Strategies- Sales Executives – Functions -Qualities - Sales Presentation Techniques - Emerging Trends in Sales Management.

UNIT – V

6

Selling Concept - Objectives- scope and techniques of Salesmanship- Sales Planning- Importance – process- Sales Budget- Objectives-uses of sales Budget.

Text book

1. Advertising & promotion: George E.Belch, THM
2. Advertising Management, Dr. Varma&Aggarwal, kingBooks

References:

1. Sales promotion and advertising management by M .N.Mishra. Himalaya Publication.
2. Advertising and sales management by SanjeevChauhan (Astha publication)
3. Anderson, Hair, Bush: Professional Sales Management, McGraw Hill, Singapore.

T Manjiniprakash

Course Coordinator

HOD

Department of Commerce

P18OEBA002	BPO MANAGEMENT							L	T	P	C
	Total Contact Hours – 30							2	0	0	2
	Prerequisite course – UG Level										
	Course Coordinator Name & Department:- .P.Srinivasan/ Business Administration										
COURSE OBJECTIVES: - - To familiarize the students with the basic fundamentals of BPO industry - To impart knowledge on BPO industry - To enable the students on the concept of various decisions in Business Process Outsourcing											
COURSE OUTCOMES (COs)											
CO1	Develop a strategic understanding of the concepts of BPO’s and its benefits										
CO2	Explaining various models used in functioning of BPO’s and Trends.										
CO3	Describe the opportunities and challenges in Human Resources BPO										
CO4	Analyzes about call centers its functions, processes and classifications										
CO5	Developing efficiency in understanding the customers and capabilities in handling calls.										
CO6	To understand the future trends in BPO industry.										
Mapping of Course Outcomes with Program outcomes (POs) (1/2/3 indicates strength of correlation) 3-High, 2-Medium, 1-Low											
	COs/Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PS O1	PS O2	PS O3
	CO1	H	M						M	L	
	CO2	H	L								
	CO3	H	M								
	CO4	M	H								
	CO5	M	M								
	CO6	L	M								
3	Category	Humanities & Social Studies (HS)	Basic Sciences (BS)	Engineering (ES)	Professional Core (PC)	Open Elective (OE)	Project/Term Paper/ Seminar/ Internship(PR)				
						✓					
4	Approval	Academic Council									

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		Meeting

UNIT – I

6

Business Process Outsourcing – Meaning – definition - Basics - Benefits - BPO Models - - BPO Companies in India.

UNIT-II

6

Healthcare BPO – Structure of the American Healthcare Sector – Activity Profile –Future Trends and Threats – Case Study – Cbay Systems.

UNIT - III

6

Human Resource BPO – Reasons for outsourcing HR – Activities involved in HR BPO – HR Outsourcing Trends – Career in HR BPO – Emerging BPO Domains – Media and Entertainment BPO – Publishing BPO.

UNIT – IV

6

Call Centres – Functions – Processes – classifications – Telemarketing – Tele selling – Preparing for a Job – Approach – Training – Selection Process.

UNIT – V

6

Improving Efficiency – Handling Calls – Team Player – Pleasing the Customers – Converse efficiently – Reducing stress.

TEXT BOOKS:

- 1.BPO Industry in India by S K Awasthi by Jain Book
- 2.Business Process Outsourcing: Its Prospects and Challenges by Barua.

REFERENCE BOOKS

1. SudhindraMokhasi(2009) ,BPO – Sutra : True stories from India’s BPO and call centres, -Rupa& Co.
2. Kulkarni, Sarika.(2005), Business process outsourcing – Delhi, Jaico Publishing House.
3. Shikapur, Deepak(2004), BPO Digest. Ameya Inspiring Books.

Mr.P.Srinivasan

Course Coordinator

HOD

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P18OEBA003	CALL CENTER MANAGEMENT-Voice and Non Voice	L	T	P	C
	Total Contact Hours –30	2	0	0	2
	Prerequisite course – UG Level				
	Course Coordinator Name & Department:-A.Jhoncy / BBA				

COURSE OBJECTIVES:-

- Develop and motivate a call centre team.
- Get the most out of call monitoring technology and prepare effective management reports.
- React to and plan for operational bottlenecks.
- Give meaningful feedback to call-centre agents and set achievable goals and targets.
- Students will learn about the roles and methods of different kinds of call centers. They will apply this by designing their own call center and trying to anticipate customer needs.

COURSE OUTCOMES (COs)

CO1	Gaining a basic knowledge about call centers its functioning and classifications.
CO2	To know about handling the Issues and problems related to calls in a efficient manner.
CO3	Gives knowledge of technical communications, speech process and educate conversation of oral skills.
CO4	Students acquire knowledge towards pre-interview about Interview questions and answering techniques
CO5	Analyses fully about the medias of communications.
CO6	Demonstrate awareness of the pragmatics of call center planning and operation

Mapping of Course Outcomes with Program outcomes (POs)
(1/2/3 indicates strength of correlation) 3-High, 2-Medium, 1-Low

1	COs/Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PS O1	PS O2	PS O3
	CO1	M	H						M	H	
	CO2	M	H								
	CO3	L	H								
	CO4	L	H								
	CO5	M	H								
	CO6	L	H								

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	Category	Humanities & Social Studies (HS)	Basic Sciences (BS)	Engg Sciences (ES)	Core Elective (CE)	Non-Major Elective (NE)	Open Elective (OE)	Project/Term Paper/ Seminar/ Internship(PR)
							✓	
4	Approval	Academic Council Meeting						

UNIT – I **6**

Call centers – Meaning – Functions – Processes - Classifications – Tele selling – Types of call centers.

UNIT – II **6**

Improving Efficiency – Handling calls – Team Players – Components and working of call center – Issues and problems.

UNIT – III **6**

Nature of Technical communication: Stages of communication – Nature of Technical Communication - The speech process – Conversation and Oral skills.

UNIT – IV **6**

Job Interview: Pre – Interview preparation techniques – Interview questions – Answering Strategies – Frequently asked Interview questions.

UNIT – V **6**

Communication media – Telephone – Fax – Internet – Email – Video conferencing.

TEXT BOOKS

1. Brad Cleveland - Call Center Management on Fast Forward: Succeeding in the New Era of Customer Relationships (3rd Edition) Third Edition,
2. Mr. Thomas Anthony Laird - Advice from a Call Center Geek: Rethinking Call Center Operations,

REFERENCE BOOKS

1. W. Stallings “Data and Computer Communication” Pearson Education, 5 Edition, 2001.
2. M. AshrajRizvi,” Effective Technical Communication”, Tata McGraw – Hill Education, 2005.
3. R.S.N.Pillai&Bagavathi – Modern commercial correspondence.

A.Jhoncy

Course Coordinator

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P18OEBA004	CUSTOMER RELATIONSHIP MANAGEMENT							L	T	P	C
	Total Contact Hours – 30							2	0	0	2
	Prerequisite course – UG Level										
	Course Coordinator Name & Department:- Dr.D Arun Kumar /BBA										
COURSE OBJECTIVES: - - To Popularize the students with the basic fundamentals of CRM. - To improve knowledge & skills on Customer relationship of Marketing strategy. - To develop the students on the concept of Customer service.											
COURSE OUTCOMES (COs)											
CO1	To popularize with the basics of CRM.										
CO2	Can increase awareness about Customer relationship.										
CO3	Able to be aware of the concept of Customer service.										
CO4	Can respond to the concept of Customer needs.										
CO5	Develop confidence in the practical aspects of Customer Satisfaction										
CO6	Identify the main Customer Expectations.										
Mapping of Course Outcomes with Program outcomes (POs) (1/2/3 indicates strength of correlation) 3-High, 2-Medium, 1-Low											
1	COs/Pos	PO1	PO 2	PO3	PO4	PO5	PO6	PO7	PS O1	PS O2	PS O3
2	CO1	M	L						M	L	
	CO2	L	L								
	CO3	M	L								
	CO4	L	L								
	CO5	M	H								
	CO6	H	L								
3	Category	Humanities & Social Studies (HS)	Basic Sciences (BS)	Engg Sciences (ES)	Core Elective (CE)	Non-Major Elective (NE)	Open Elective (OE)		Project/Term Paper/ Seminar/ Internship(PR)		
							✓				
4	Approval	Academic Council Meeting									

UNIT – I

6

CRM – Introduction – Definition – Need for CRM – Customer satisfaction – Customer loyalty – Product Marketing – Direct Marketing-

UNIT – II

6

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Customer learning relationship – Key stages of CRM - Force driving CRM – Benefits of CRM – Growth of CRM Market in India – Key principles of CRM.

UNIT – III

6

CRM – Program – Ground work for effective use of CRM – Components of CRM – Types of CRM.

UNIT - IV

6

CRM Process - Frame work – Governance process- Performance evaluation process.

UNIT-V

6

Use of Technology in CRM – Call center process – CRM Technology tools – Implementation – Requirements analysis – selection of CRM Package – reasons and failure of CRM.

TEXT BOOK

1. Kristin Anderson & Carol Kerr – Customer Relationship Management – McGrawHill 2002
2. Sheth – Customer Relationship Management – McGraw Hill Edition 1st Edition 2000

REFERENCE BOOK

1. Dr. P .Sheela Rani – Customer Relationship Management – Margham Publication.
2. K. Balasubramaniam – Customer Relationship Management – GIGO Publication, 2005.
3. Dr. Ravi Kalakota E – business – Road map for success, Pearson education Asia, 2000.

Dr.D.ArunKumar

Course Coordinator

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4	Approval	Academic Council Meeting

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UNIT – I

6

Introduction to Entrepreneurship: Meaning and concept of entrepreneurship - the history of entrepreneurship development - role of entrepreneurship in economic development

UNIT – II

6

The Entrepreneur: Meaning of entrepreneur - the skills required to be an entrepreneur, and role models, mentors and support system.

UNIT – III

6

Business Opportunity Identification: Business ideas, methods of generating ideas - legal form of new venture, protection of intellectual property -marketing the new venture.

UNIT – IV

6

Preparing a Business Plan: Meaning - significance of a business plan - components -feasibility study.

UNIT – V

6

Financing the New Venture: Importance - types of ownership securities - venture capital - types of debt securities -determining ideal debt-equity mix - financial institutions and banks.

TEXT BOOK

1. Robert D. Hisrich, Mathew J Manimala, Michael P Peters, Dean A Shepherd, “Entrepreneurship”, 9e, McGraw Hill Education, 2014.
2. Peter F. Drucker, “Innovation and Entrepreneurship”, Harper Collins, 2009.

REFERENCE BOOK

1. John Bessant, Joe Tidd, “Innovation and Entrepreneurship”, 2e, Wiley India Private Limited, 2012.
2. Robin Lowe, Sue Marriott, "Enterprise: Entrepreneurship and Innovation: Concepts, Contexts and Commercialization" 1e, Routledge, 2012.
3. VeeraBhadrappa Havinal – Management Entrepreneurship – New Age International Publishers.

Dr.D.ArunKumar

CourseCoordinator

HOD

Bharath Institute of Higher Education and Research
Faculty of Arts and Science
Department of Commerce

P18OEBA006	HUMAN RESOURCE MANAGEMENT	L	T	P	C
	Total Contact Hours – 30	2	0	0	2
	Prerequisite course – UG Level				
	Course Coordinator Name & Department:- P.Srinivasan / BBA				

COURSE OBJECTIVES:-

- Today's competitive business environment owes its success to effective management of its human resource.
- The quality of the organization's employees, their attitude, behavior and satisfaction with their jobs, and their behavior towards ethics and values and a sense of fair treatment all impact the firm's productivity, level of customer service, reputation, and survival.
- The students of human resources management must aware of basic aspects of human resource management to understand the functioning of human resource management in an organizational setting.
- Students gained knowledge in the present day human resources development practice by incorporate themselves in the changing environment of HRM.

COURSE OUTCOMES (COs)

CO1	Identify how firms gain a sustainable competitive advantages through people
CO2	To be aware of the responsibility managers of have concerning human resource management
CO3	Identify the importance of change management.
CO4	To implement basics compensation and performance appraisal
CO5	Importance of labour welfare and grievance handling for employment
CO6	Understand the importance of Employee participation and Relations.

Mapping of Course Outcomes with Program outcomes (POs)
(1/2/3 indicates strength of correlation) 3-High, 2-Medium, 1-Low

1	COs/Pos	PO1	PO2	PO3		PO4	PO5		PO6	PO7	PS O1 M	P S O 2 P S O 3 P S O 3
2	CO1	H	H									
	CO2	M	M									
	CO3	L	H									
	CO4	M	L									
	CO5	M	M									
	CO6	H	H									
3	Category	Humanities & Social Studies (HS)		Basic Sciences (BS)	Engg Sciences (ES)		Professional Core (PC)	Core Elective (CE)	Non-Major Elective (NE)	Open Elective (OE)	Any other	Project/Term Paper/ Seminar/ Internship(PR)
										✓		

Bharath Institute of Higher Education and Research
Faculty of Arts and Science
Department of Commerce

4	Approval	Academic Council Meeting

UNIT – I

6

Human Resource Function- Human Resource Philosophy – Changing environments of HRM – Strategic human resource management – Role of HR Managers.

UNIT – II

6

Recruitment & Placement: Sources, Developing and using application forms - IT and online recruitment - Selection process, basic testing concepts - types of test - work samples & simulation - selection techniques – interview - Designing & conducting the effective interview - computer aided interview.

UNIT – III

6

Training & Development: Employee Orientation- Training process- Need analysis- Training techniques- special purpose training- Performance appraisal: Methods - Problem and solutions - MBO approach - Performance appraisal in practice.

UNIT – IV

6

Basic Compensation & Pay plans - factors determining pay rate - Current trends in compensation - Computerized job evaluation - financial incentives - benefits - Insurance benefits - retirement benefits – welfare measure

UNIT – V

6

Trade unions - Discipline administration - grievances handling - Labour Welfare: Importance & Implications of labour legislations - Employee health.

TEXT BOOKS

1. Dr. R.Venkatapathy&AssissiMenacheri, Industrial Relations &Labour Welfare, Adithya Publications, CBE, 2001. 5. Robert L.Gibson and Marianne H.Mitchell, Introduction to Counseling and Guidance, VI edition, PHI, 2005
2. L.M. Prasad – Human Resource Management – S. Chand & Sons – 2007.

REFERENCEBOOKS

1. Gary Dessler, " zo& Stephen P.Robbins, Personnel/Human Resource Management, Third edition, PHI/Pearson.
2. VSP Rao, Human Resource Management: Text and cases, First edition, Excel Books, New Delhi - 2000.
3. P.SrinivasanHuman Resource Management", Seventh edition, Prentice-Hall of India P.Ltd., Pearson.

David A. DeCen

Bharath Institute of Higher Education and Research
Faculty of Arts and Science
Department of Commerce

P.Srinivasan

Course Coordinator

HOD

Bharath Institute of Higher Education and Research
Faculty of Arts and Science
Department of Commerce

P18OEBA007	LOGISTICS & SUPPLY CHAIN MANAGEMENT	L	T	P	C
	Total Contact Hours – 30	2	0	0	2
	Prerequisite course: UG Level				
	Course Coordinator Name & Department:- T.Manjiniprakash / BBA				

COURSE OBJECTIVES:-

- To make the students to understand the usefulness of logistics and supply chain.
- This document lists the course's major subject areas and the knowledge, comprehension, application, analysis, synthesis and evaluation skills that they are designed to impart.
- Identify the sources of cost in a supply chain.
- Define inventory and types of inventory in a supply chain.
- Define transportation cost and identify the factors that contribute to this cost.
- Calculate inventory cost and transportation cost for a logistics problem.
- Define fixed and variable cost.
- Understand the economies of scale in transportation and inventory cost

• **COURSE OUTCOMES (COs)**

CO1	Identify and Analyze Business Models, Business Strategies and corresponding Competitive Advantage.
CO2	Formulate and implement Warehouse Best Practices and Strategies.
CO3	Plan Warehouse and Logistics operations for optimum utilization of resources
CO4	Apply logistics and purchasing concepts to improve supply chain operations
CO5	Apply quality management tools for process improvement
CO6	Create an ideas about logistics and supply chain management

Mapping of Course Outcomes with Program outcomes (POs)
(1/2/3 indicates strength of correlation) 3-High, 2-Medium, 1-Low

1	COs/Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
2	CO1	H	H						H	O	O3
	CO2	H	M								
	CO3	M	M								
	CO4	L	M								
	CO5	H	M								
	CO6	M	H								

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Faculty of Arts and Science
Department of Commerce

3	Category	Humanities & Social Studies (HS)	Basic Sciences (BS)	Engg Sciences (ES)	Professiona l Core	Core Elective (CE)	Non-Major Elective (NE)	Open Elective (OE)	Any other	Project/Term Paper/ Seminar/ Internship(PR)
								✓		
4	Approval	Academic Council Meeting								

UNIT –I

6

Logistics management and Supply Chain management - Definition, Evolution, Importance. The concepts of logistics. Logistics relationships - Functional applications - Logistics Organization - Logistics in different industries.

UNIT –II

6

Logistics Activities: – objectives, solution. Customer Service, Warehousing and Material Storage, Material Handling, information handling and procurement Transportation and Packaging - Reverse Logistics - Global Logistics

UNIT-III

6

Fundamentals of Supply Chain - Development of SCM - Strategic Supply Chain Management and Key components - Drivers of Supply Chain Performance – key decision areas – External Drivers of Change.

UNIT-IV

6

Supply Chain Drivers and Design Drivers of supply chain performance: Framework for structuring Facilities warehouse – Inventory – Transportation – Information - Sourcing, and Pricing – Revenue management.

UNIT-V

6

Demand and Inventory Aggregate Planning in a Supply Chain: role - strategies Implementation Responding to predictable variability in supply chain – Types of supply chains - creating responsive supply chains lean

TEXT BOOKS

1. Supply Chain Management: Ronald H. Ballou, Samir K. Srivastava, Pearson Education Ltd, Jan 2007.
2. Supply Chain Management: Anil Sinha, McGraw Hill Education, August 2011.

REFERENCE BOOKS

1. Logistics And Supply Chain Management: Martin Christopher, Pearson Education Ltd, 2016.
2. Supply Chain Management: Sunil Chopra, Peter Meindl, Dharma Virus Kalra, Pearson Education Ltd, 2016.

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Faculty of Arts and Science
Department of Commerce

3. Supply Chain And Logistics Management: V. Anandaraj, S. Kumaran, IshankaSaikira, Airwalk Publication, Jan 2018.

T.Manjiniprakash.

Course Coordinator

HOD

P18OEBA008	OFFICE MANAGEMENT						L	T	P	C	
	Total Contact Hours – 30						2	0	0	2	
	Prerequisite course – UG Level										
	Course Coordinator Name & Department:- D.K.Sowmiyalakshmi /BBA										
COURSE OBJECTIVES: -											
- To familiarize the students with the basic fundamentals of accounting. - To impart knowledge on final accounts of sole trading concern. - To enable the students on the concept of income & expenditure and receipts and payments.											
COURSE OUTCOMES (COs)											
CO1	To make them understand office management and duties of an office manager										
CO2	To give an idea about proper filing and indexing of office documents										
CO3	To understand the principles of record management and different types of records in business organization.										
CO4	To enable them to aware about safety hazardous and steps to improve office safety.										
CO5	To introduce different measures of office work										
CO6	Create an ideas about office management										
Mapping of Course Outcomes with Program outcomes (POs) (1/2/3 indicates strength of correlation) 3-High, 2-Medium, 1-Low											
1	COs/Pos	PO1	PO 2	PO3	PO4	PO5	PO6	PO7	PS O1	P S	P S
2	CO1	H	H						H	O 2	C 3
	CO2	M	M								
	CO3	M	H								
	CO4	L	H								
	CO5	H	H								
	CO6	H	M								
3	Category	Humanities & Social Studies (HS)	Basic Sciences (BS)	Engg Sciences (ES)	Professional Core (PC)	Core Elective (CE)	Non-Major Elective (NE)	Open Elective (OE)	Any other	Project/Term Paper/ Seminar/ Internship(PR)	
							✓				
4	Approval	Academic Council Meeting									

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Faculty of Arts and Science
Department of Commerce

UNIT –I

6

Introduction: Meaning, functions and importance of office management; office management and organization. Principles of office management and organization. Principal departments of modern office.

UNIT-II

6

Office Manager: qualities of office manager. The authorities and responsibilities of an office manager. Office accommodation: Selection of site. Office layout. Environment and working conditions.

UNIT-III

6

Office equipment's - Reproduction equipment - Typewriter - Duplicators - Photo Copier - Communication Equipment - Intercom - Telephone - Use of Computers in Office Management Office System - Procedure - Routine - And methods - Paper work in office Filling functions.

UNIT-IV

6

Office Communication: Various means of communication- Their use, Correspondence through Internet - Office Correspondence -Central vs. Departmental Correspondence - Handling Mail - Postal Services - Oral written - Internal and external communication - Records Management Types - Forms Controls - Principles - Foremost - Continuous stationery

UNIT-V

6

Office Supervisor - Meaning and characteristics of Supervisor - Status - Place and Role of Supervisor - Effective Supervisor - Qualification - skill of Supervisor.

TEXT BOOKS

1. Modern Office Management: N. D Sharma, And Publishers, Jan 2006.
2. Office Management: Prashansa K. Ghosh, S. Chand & Sons, Jan 2010

REFERENCE BOOKS

1. Office Management: R.S.N Pillai&Bhagavathi, S. Chandler & Come, Dec 2010.
2. Office Management: R. Nangia, G. K Gupta, Crescent Publishing House.
3. Office Management: Dr. R. K Chopra, PriyankaGauri, Himalaya Publishing House, Jan 2017.
4. Of Non-Trading Organization-Receipts And Payment Account- Income And Expenditure Account

D.K.Sowmiyalakshmi

CourseCoordinator

HOD

Bharath Institute of Higher Education and Research
Faculty of Arts and Science
Department of Commerce

P180EVC001	PHOTOGRAPHY AND VIDEOGRAPHY						L	T	P	C	
	Total Contact Hours – 60						2	0	0	2	
	Prerequisite – UG Level										
	Course Coordinator Name & Department:- P. Nagarajan, Dept of Visual Communication										
COURSE OBJECTIVES											
- To understand the fundamentals of Photography and Videography - To examine the technical factors of indoor and outdoor photography and Videography - To enable the students to equip themselves to become a photography and Videography professionals.											
COURSE OUTCOMES (COs)											
CO1	Can analyze the fundamentals of Photography and Videography										
CO2	Understanding of the camera operations										
CO3	Evaluating the lighting										
CO4	Can be aware of the wrong exposures										
CO5	Can promote various types of photography and Videography										
CO6	Understanding the concept of photo-journalism										
	Mapping of Course Outcomes with Program outcomes (POs) (1/2/3 indicates strength of correlation) 3-High, 2-Medium, 1-Low										
1	COs/Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
2	CO1	H	M								
	CO2	H	M								
	CO3	H	M								
	CO4	H	M								
	CO5	H	M								
	CO6	H	M								
3	Category	Humanities & Social Studies	Basic Sciences (BS)	Engg Sciences (ES)	Professional Core (PC)	Core Elective (CE)	Non-Major Elective (NE)	Open Elective (OE)		Any other	
4	Approval	Academic Council Meeting									

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Faculty of Arts and Science
Department of Commerce

UNIT-I:

12

Human Eye and Camera. Basics of Camera (aperture, shutter speed, focal length, f-stop, depth of field etc.,) Camera operations, Introduction to Television Production, Types of telecasting, Television Crew, an overview of direction.

UNIT-II:

12

Types of Still and video cameras. Types of Lenses. Visual Perception, Art direction, floor management- indoor & outdoor, production management, budget preparation. Locations: In-door, set, on-sights sets, - Outdoor on-sight sets, blue matte. Etc.,

UNIT-III:

12

Understanding lighting-indoor and outdoor, Exposing and Focusing, Types of lighting, Natural and Artificial Lights, Controlling lights, Exposure Meters. Camera techniques & operation, Framing, shots & movements (wide, medium, close ups, shadow, zoom, pan, tilt, aerial etc.,),

UNIT-IV:

12

Photography for advertising-Consumer and industrial. Usage of various types of camera lenses (Normal, Tele, Zoom etc.,), usages of various filters (day ,night, colour correcting filter, diffusion filter), objectives TV lighting, various types of Lights (baby, Junior, Senior, etc.,)

UNIT- V:

12

Basics of photo-journalism, Photo-features, Photo - essays, Writing captions, Visual story telling. Planning a shoot-studio, location, set props and casting. Colour temperature, lighting for different situations (interviews, indoor, out-door), types of lighting(Back, Front, full, semi, etc.,)

TEXT BOOKS:

- 1.The Art of Photography: A Personal Approach to Artistic Expression, Barnbaum, Bruce, Rocky Nook
- 2.Photography Demystified: Your Guide to Gaining Creative Control, David McKay, Photography Inc.
3. Television Productions: A History of All Series and Pilots, by JonAbbott, Publisher: McFarland & Company (May 13, 2009)
- 4.Production Management for TV and Film: The Professional's Guide, Methuen Drama (August 1, 2010)

REFERENCE BOOKS:

- 1.The Photographer's Eye, Szarkowski, John, The Museum of Modern Art, New York (Publisher)
- 2.Creative Composition: Digital Photography Tips and Techniques, Davis, Harold, Wiley
- 3.From Concept to Screen: An Overview of Film and Television Production, Robert Benedetti, Pearson; 1 edition (June 11, 2001)
- 4.The Television Handbook, Routledge, Holland, P (1999)

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Department of Commerce

P18OEEN001	SOFT SKILLS							L	T	P	C	
	Total Contact Hours – 30							2	0	0	2	
	Prerequisite – Higher Secondary Level											
	Course coordinator name & Dept: Mrs. Caroline– English											
COURSE OBJECTIVES:- To effectively complement the already existing Hard Skills so that the combination becomes a winning blend that could project the candidate’s true worth in proper perspective.												
COURSE OUTCOMES (COs)												
CO1	Remember the personal as well as professionals goals of the students											
CO2	Understand the manners during professional meetings											
CO3	Apply the right reasons of stress											
CO4	Analyze the importance of communication skills											
CO5	Evaluate the excellence in both personal and professional life											
CO6	Create the Growth & development of soft skills											
Mapping of Course Outcomes with Program outcomes (POs) (1/2/3 indicates strength of correlation) 3-High, 2-Medium, 1-Low												
1	COs/Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	H	PSO1	PSO2	PS O3
2	CO1	H	H									
	CO2	H	H									
	CO3	H	H									
	CO4	H	L									
	CO5	H	L									
	CO6	H	H									
3	Category	Humanities & Social Studies (HS)	Basic Sciences (BS)	Engg Sciences (ES)	Professional Core (PC)	Core Elective (CE)	Non-Major Elective (NE)	Open Elective (OE)	✓	Project/Term Paper/ Seminar/ Internship (PR)		
4	Approval	47 th Academic Council Meeting										

UNIT I- LISTENING / VIEWING

6

Listening and note-taking – Listening to telephonic conversations – Ted talks – Inspiring Speeches – Watching documentaries on personalities, places, socio-cultural events, TV news programmes and discussions to answer different kinds questions, viz., identifying key idea and comprehension questions... so on.

UNIT II- SPEAKING

6

Elements of presentation skills-Structure of presentation-presentation tools- mock interviews – group discussion – introducing one self and others – welcome address and proposing a vote of thanks- role play – debating.

UNIT III - READING

6

Different genres of text (literature, media, technical) for comprehension – Reading strategies like note-making – reading graphs, charts and graphic organizer – Sequencing sentences – reading online sources like e-books, e-journals and e-newspapers.

UNIT IV - WRITING

6

Resume/Report preparation/Letter Writing-Structuring the resume-comprehension- Describing charts and tables – writing for media on current events.

UNIT V- PROJECT

6

Gender injustice: Dowry-Violence against women -Sexual Harassment -Eve teasing-Female infanticide-Prostitution. **Social problem:** Poverty-unemployment-Child Labour-Terrorism-Drug abuse-Alcoholism-Corruption. **Industrial problem:** Work and Labour organization-Elements-Principles-Staff and Functional Activities. **Industrial Conflict:** Strikes-Disputes-Grievances-Industrial development in India-Steps in Automation process-Industrial policy-Liberation.

Text books

- 1 .Rizvi ashraf ,Effective Technical Communication , Tata amcgraw Hill Education Private Ltd,New Delhi,2011.
2. Townsend Roz , Presentation skills for the upwardly mobile , Emerald Publishers .

Reference

1. T.M.Farhathullah, communication skills for Technical students, Orient Longman Ltd,2002.
2. Andree J Rutherford, Basic communication skills for Technology, Pearson Education,Asia (Singapore) Pte.Ltd, Banglore , 2001.

Bharath Institute of Higher Education and Research
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Sub. code : P18OEEN002		Sub name: MASS MEDIA AND COMMUNICATION						L	T	P	C
		Total Contact Hours – 30						2	0	0	2
		Prerequisite – UG Level									
		Course coordinator :– Dr.P.AROCKIA NATHAN Dept of English									
COURSE OBJECTIVES : To impart students with the efficient knowledge of important events in through literature											
COURSE OUTCOMES (COs)											
CO1		Remember the art of writing, report and editing									
CO2		Understand the skills of writing									
CO3		Apply the Role & importance in social change									
CO4		Analyze the social structure of Indian society									
CO5		Evaluate the growth & development of communication and media									
CO6		Create the interpreting the meaning from the text									
Mapping of Course Outcomes with Program outcomes (POs) (1/2/3 indicates strength of correlation) 3-High, 2-Medium, 1-Low											
1	COs/Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PS O1	PS O2	
2	CO1	3	3	3	3	3	3	3			
	CO2	3	3	3	3	3	3	3			
	CO3	2	3	3	2	3	2	3			
	CO4	2	2	2	2	2	2	2			
	CO5	2	2	2	2	2	2	2			
	CO6	2	3	3	2	2	2	2			
3	Category	Humanities & Social Studies (HS)	Basic Sciences (BS)	Engg Sciences (ES)	Professional Core (PC)	Core Elective (CE)	Non-Major Elective (NE)	Open Elective (OE)	Any other	Project/Term Paper/ Seminar/ Internship(PR)	
								✓			
4	Approval	Academic Council Meeting									

UNIT I -CommunicationandMedia

6

Communication & Media: Definition, meaning and concept.
Different types of communication: verbal and written
Scope and Process of Mass Media & Communication

UNIT II -History of Mass media

6

History of the development of electric media in India: Radio & TV
Role of media in society, Impact of media on audience,
Media effects, limitations and different form of media.

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UNIT- III- Role&Responsibilities **6**

Role and responsibilities of journalist, ethics, careers,
Media management, Media laws in India, and freedom of press
Qualities and Responsibilities of a reporter

UNIT IV -Theories &Principles **6**

Theories and Principles of Editing
Communication and theories of social change,
Role of media in social change, Development communication

UNIT V-Technology&Development **6**

Changing trends of mass communication under the process of globalization
Technology in the development of media.

Text Books

1. Vivian, John, Mass Media &communication Boston, Massachusetts : Pearson Allyn and Bacon,c.2008.
2. Stovall, James Glen, Writing for the mass media, New Jersey : Pearson Education, Inc.,c.2012

Reference Books:

1. Parthasarathy, Rangaswami, journalism in India, sterling Publisher pvt. Ltd. NewDelhi.
2. D.S. Mehta. Mass communication and Journalism in India New Delhi, Allied Publishers,2011

Course Coordinator

HOD

Bharath Institute of Higher Education and Research
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P18OESC001	COMPUTER APPLICATIONS						L	T	P	C	
	Total Contact Hours – 30						2	0	0	2	
	Prerequisite course – UG Level										
	Course Coordinator Name & Department:- Dr. S.Thiru Nirai Senthil / BCA										
COURSE OBJECTIVES:- Learners will be familiar with basic of computer application. Learners will understand the applications of computer & able to know about the operating systems.											
COURSE OUTCOMES (COs)											
CO1	Gain knowledge in fundamental computer applications										
CO2	Understand the concept of input device functions										
CO3	Identify the suitable input devices for application										
CO4	Analyze the input and output devices and its processes										
CO5	Evaluate data and storage devices for application										
CO6	Create an real time application using a system software and application software										
Mapping of Course Outcomes with Program outcomes (POs) (1/2/3 indicates strength of correlation) 3-High, 2-Medium, 1-Low											
1	COs/Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO 2	PSO 3
2	CO1	H	L							H	
	CO2	H	L								
	CO3	H	L								
	CO4	H	L								
	CO5	H	L								
	CO6	H	L								
3	Category	Humanities & Social Studies (HS)	Basic Sciences (BS)	Engg Sciences (ES)	Professional Core (PC)	Core Elective (CE)	Non-Major Elective (NE)	Open Elective (OE)	Any other	Project/Term Paper/ Seminar/	
								✓			
4	Approval	Academic Council Meeting									

UNIT I

6

Brief History of Development of Computers ,Computer System Concept, Computer System Characteristics ,Capabilities and Limitations, Types of Computers-Personal Computer (PCs) - IBM PCs, Types of PCs- Desktop, Laptop, Notebook, Palmtop, etc. Basic Components of a Computer System - Control Unit, ALU, Input/ Output Unit- Memory, Storage Fundamentals - Primary Vs Secondary memory.

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UNIT II

6

Input Devices : Keyboard, Mouse, Joystick, Scanners, Digital Camera, MICR, OCR, OMR, ,Light pen, Touch Screen.

UNIT III

6

Output Devices: Monitors - Characteristics and types of monitor, Size, Resolution, Refresh Rate, Dot Pitch, Video Standard - VGA, SVGA, XGA etc. Printers - Daisy wheel, Dot Matrix, Inkjet, Laser. Plotter, Sound Card and Speakers.

UNIT IV

6

Various Storage Devices - Magnetic Disks, Hard Disk Drives, Floppy, Disks, Optical Disks.

UNIT V

6

Computer Software, Need, Types of Software - System software, Application software System Software - Operating System, Compiler , Assemblers, Interpreter.

TEXT BOOKS:

1. S.K. Basandra, “Computers Today”, Galgotia Publications, 2010.
2. Alexis Leon & Mathews Leon, “Fundamentals of Information Technology”, Vikas Publishing House, New Delhi, 2009.

REFERENCE BOOKS:

1. Rajeev Mathur, “Dos Quick Reference”, Galgotia Publications.

Course Coordinator

HOD

Bharath Institute of Higher Education and Research
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Department of Commerce

P18OESC002	MULTIMEDIA						L	T	P	C	
	Total Contact Hours – 30						2	0	0	2	
	Prerequisite course – UG Level										
	Course Coordinator Name & Department:- Dr. S.Thiru Nirai Senthil / BCA										
COURSE OBJECTIVES:- To Understand the basic multimedia concepts and designing concepts.											
COURSE OUTCOMES (COs)											
CO1	Gain knowledge in basic concepts of multimedia										
CO2	Analyze the multimedia application problems.										
CO3	Understand the Video capturing, Sound capturing, editing concepts.										
CO4	Identify the basic multimedia design principles.										
CO5	Evaluate the multimedia system and Design Process.										
CO6	Create a real time application using a multimedia concept.										
Mapping of Course Outcomes with Program outcomes (POs) (1/2/3 indicates strength of correlation) 3-High, 2-Medium, 1-Low											
1	COs/Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
2	CO1	H	L								H
	CO2	H	-								
	CO3	H	-								
	CO4	H	L								
	CO5	H	L								
	CO6	H	L								
3	Category	Humanities & Social Studies (HS)	Basic Sciences (BS)	Engg Sciences (ES)	Professional Core (PC)	Core Elective (CE)	Non-Major Elective (NE)	Open Elective (OE)	Any other	Project/Term Paper/ Seminar/	
								✓			
	4	Approval	Academic Council Meeting								

UNIT I

6

Multimedia Fundamentals: Concept of multimedia, Fundamental criteria for the design of a multimedia presentation, Multimedia Application Goals & Objectives, opportunities in multimedia production.

UNIT II

6

Role of multimedia-development of team members, avoiding problems in planning a multimedia application.

UNIT III

6

Multimedia Building Blocks: Text, Graphics, Video capturing, Sound capturing, editing.

UNIT IV

6

Basic design principle: proximity, visual hierarchy, Symmetry, Asymmetry, Repetition, unity, Contrast, dynamics, Emphasis, Multimedia Authoring tools.

UNIT V

6

Design, Development and evaluation of multimedia a system, Development of user interface design, Design Process.

Text Books

1. John Villamil, Casanova, Louis Molina, “An introduction to multimedia”,1998.
2. Mohammad Dastbaz, “Designing Interactive Multimedia Systems”,2002.

Reference Books

1. Bohdan O. Szuprowicz, “Multimedia Networking”,1995.
2. Stephen McGloughlin, “Multimedia on the web”,1997.

Course Coordinator

HOD

Bharath Institute of Higher Education and Research
Faculty of Arts and Science
Department of Commerce

P18OESC003	ADVANCED EXCEL						L	T	P	C	
	Total Contact Hours – 30						2	0	0	2	
	Prerequisite course – UG Level										
	Course Coordinator Name & Department:- S.Anupriya / BCA										
COURSE OBJECTIVES:- To identify the various functions in Excel Sheet											
COURSE OUTCOMES (COs)											
CO1	Understand the advanced Excel formulas.										
CO2	Evaluate IF conditions, AND, OR functions.										
CO3	Analyze the advanced filter options.										
CO4	Execute the multiple windows, splitting windows management.										
CO5	Understand the pivot table methods.										
CO6	Create a real time application by creating, modifying Excel sheet.										
Mapping of Course Outcomes with Program outcomes (POs) (1/2/3 indicates strength of correlation) 3-High, 2-Medium, 1-Low											
1	COs/Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO 2	PSO 3
2	CO1	H	L								H
	CO2	H	L								
	CO3	H	L	M	M						
	CO4	H	L	M	M						
	CO5	H	L	M	M						
	CO6	H	L	M	M						
3	Category	Humanities & Social Studies (HS)	Basic Sciences (BS)	Engg Sciences (ES)	Professional Core (PC)	Core Elective (CE)	Non-Major Elective (NE)	Open Elective (OE)	Any other	Project/Term Paper/ Seminar/	
4	Approval	Academic Council Meeting									

UNIT I

6

Uses of Advance Excel Formulas -VLOOKUP, HLOOKUP, SUMIF, SUMIFS, SUMPRODUCT, DSUM, COUNTIF, COUNTIFS, IF, IFERROR, ISERROR, ISNA, ISNUMBER, ISNONTTEXT, OR, AND, SEARCH, INDEX, MATCH etc

UNIT II

6

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Department of Commerce

Various Methods and Uses of IF Conditions , Usage of "IF" Conditions? , Creation of Multiple IF Conditions in One Cell , Use the IF Conditions with the Other Advance Functions, How to use nested IF statements in Excel with AND, OR Functions Sorting, Data Forms, Adding Data Using the Data Form, Finding Records Using Criteria

UNIT III

6

Filtering Data, AutoFilter, Totals and Subtotals, Row, Various Methods of Filter and Advance Filter options , Creating and Updating Subtotals , Various Method of Sorting Data ,Creating, Formatting and Modifying Chart.

UNIT IV

6

Customizing the Quick Access Tool Bar , Managing Windows ,Multiple Windows , Splitting Windows.

UNIT V

6

Various Methods and Options of Pivot Table, Using the Pivot Table Wizard, Changing the Pivot Table Layout, Subtotal and Grand total Options, Formatting, and Grouping items

Text Books

1. Jordan Goldmeller, “Advanced Excel Essentials” ,A Press, 2015 edition.

Reference Books

1. John Walkenbach, “Microsoft Excel 2013 Bible”, Wiley Publications,2013.

Course Coordinator

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Academic Council Meeting

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UNIT I

6

Introduction - The Internet in Industry and Research - Evolution of the Internet and World Wide Web - Web Basics – Client Side Scripting versus Server Side Scripting.

UNIT II

6

Introduction – First HTML example – Headings – Linking - Images, alt Attribute, Void Elements.

UNIT III

6

Using Images as Hyperlinks-Special Characters and Horizontal Rules – Lists – Tables.

UNIT IV

6

Introduction - Inline Styles - Embedded Style Sheets - Linking External Style Sheets

UNIT V

6

Backgrounds - Element Dimensions - Box Model and Text Flow - Drop-Down Menus - User Style Sheets.

Text Books

1. Paul Deitel, Harvey Deitel, Abbey Deitel, “Internet & World Wide Web: How To Program”, 5th Edition, Pearson Publication, 2012.

Reference Books

1. Jennifer Niederst Robbins, “Learning Web Design”, Fourth Edition, O’Reilly Media, 2012.
2. Thomas Michaud, “Foundations of Web Design, Introduction to HTML & CSS”, Pearson Publication, 2014.
3. Bayross, “Web Enable Commercial Application Development Using HTML, DHTML, JavaScript, Perl CGI”, BPB Publications, 2010.
4. T. A Powell, “Complete Reference HTML (Third Edition)”, TMH, 2002.

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P18OESC005	PHOTOSHOP						L	T	P	C	
	Total Contact Hours – 30						2	0	0	2	
	Prerequisite course – UG Level										
	Course Coordinator Name & Department:- V.Brindha/BCA										
COURSE OBJECTIVES:-											
Learners can Apply methods to specific 3D Images and to identify various designs appropriate for Animation											
COURSE OUTCOMES (COs)											
CO1	Gain knowledge to Create and save Images in fundamental computer applications										
CO2	Understand the title bar, menu bar, option bar, image title bar in photo shop program.										
CO3	Execute Zooming & Panning an Image while Working with Images.										
CO4	Analyze Color manipulations & Working with Toolbox										
CO5	Gain knowledge in Working with layers.										
CO6	Create a real time application using 3D image and Animation.										
Mapping of Course Outcomes with Program outcomes (POs)											
(1/2/3 indicates strength of correlation) 3-High, 2-Medium, 1-Low											
1	COs/Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO 2	PSO 3
2	CO1	H	L								H
	CO2	H	-								
	CO3	H	-								
	CO4	H	-								
	CO5	H	L								
	CO6	H	L								
3	Category	Humanities & Social Studies (HS)	Basic Sciences (BS)	Engg Sciences (ES)	Professional Core (PC)	Core Elective (CE)	Non-Major Elective (NE)	Open Elective (OE)	Any other	Project/Term Paper/ Seminar/	
4	Approval	Academic Council Meeting									

UNIT I

6

Introduction to Adobe photoshop, Getting started with photoshop, creating and saving a document in photoshop, page layout and back ground.

UNIT II

6

Photoshop program window-titlebar, menu bar, option bar, image window, image title bar, status bar, ruler, palettes ,tool box, screen modes, saving files, reverting files, closing files.

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UNIT III

6

Images: working with images, image size and resolution, image editing, color modes and adjustments, Zooming & Panning an Image, Rulers, Guides & Grids-Cropping & Straightening an Image, image backgrounds, making selections.

UNIT IV

6

Working with tool box: working with pen tool, save and load selection-working with erasers- working with text and brushes-Color manipulations: color modes- Levels – Curves - Seeing Color accurately - Patch tool

UNIT V

6

Layers: Working with layers- layer styles- opacity-adjustment layers.

Text Books

1. Reema Thareja ,”Fundamentals of Computers”,Oxford University Press,2014.

Reference Books

1. Photoshop: Beginner's Guide for Photoshop - Digital Photography, Photo Editing, Color
2. Adobe Creative Team ,”Adobe Photoshop Class Room in a Book”,2014.

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P18OESC006	FLASH							L	T	P	C
	Total Contact Hours – 30							2	0	0	2
	Prerequisite course – UG Level										
	Course Coordinator Name & Department:- N.Mathimagal/ BCA										
COURSE OBJECTIVES:-											
Learners can identify methods appropriate for Basic Animation. Apply methods to design with flash.											
COURSE OUTCOMES (COs)											
CO1	Understand inWorking with flash, drawing with flash using Animation tools and Mixer.										
CO2	Execute working with multiple objects, importing color palettes										
CO3	Analyze Basic animation and working in the timeline,										
CO4	Create Frames, key frames, deleting, copying and reversing frames										
CO5	Evaluate the Shape tweening and shape hinting in motion										
CO6	Apply methods to design with flash										
Mapping of Course Outcomes with Program outcomes (POs)											
(1/2/3 indicates strength of correlation) 3-High, 2-Medium, 1-Low											
1	COs/Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO 2	PSO 3
2	CO1	H	L								H
	CO2	H	-								
	CO3	H	-								
	CO4	H									
	CO5	H	L								
	CO6	H	L								
3	Category	Humanities & Social Studies (HS)	Basic Sciences (BS)	Engg Sciences (ES)	Professional Core (PC)	Core Elective (CE)	Non-Major Elective (NE)	Open Elective (OE)	Any other	Project/Term Paper/ Seminar/	
								✓			
4	Approval	Academic Council Meeting									

UNIT I

6

Working with flash, drawing with flash, drawing with the pencil, modifying lines, drawing with the pen, the oval and rectangle tools, free transform tool, envelope modifier, the brush tool, using the mixer.

UNIT II

6

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Adding custom colors to color palette, importing color palettes, working with multiple objects, grouping objects.

UNIT III **6**

Basic animation and working in the timeline, the timeline, movie properties.

UNIT IV **6**

Frames vs. key frames, deleting, copying, and reversing frames, frame-by-frame vector animation, Animation on an image.

UNIT V **6**

Shape twining , shape hinting , Shape tweening text , edit multiple frames , animating gradients, basic motion tweening.

Text Books

1. Nick Vandome , “FLASH 5 in easy steps” , Dreamtech press, 2001.

Reference Books

1. E A Vander Veer & Chris Graver, “Flash CS3”, Orelly Publications, 2009.

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P18OESC007	COMPUTER HARDWARE AND NETWORKING							L	T	P	C
	Total Contact Hours – 30							2	0	0	2
	Prerequisite course – UG Level										
	Course Coordinator Name & Department:- V.Ramya/BCA										
COURSE OBJECTIVES:- Learners familiar with the basic concepts of Microprosser,Controller, Server and to demonstrate the traditional imperative design of CPUs,cards,PCsand BIOS.											
COURSE OUTCOMES (COs)											
CO1	Design the structure of Micro Processor and PCs and CPUs										
CO2	Understand the structure of PC architecture and the study of various PCs										
CO3	Understand the Basics of Processor										
CO4	Study the CPU,Chips,Processor and Controllers										
CO5	Working with Internal Components cards and Higher Level Processor										
CO6	Used to develop the Backups,Switches Routers,BIOS,Floppy Disk and zip Driver										
Mapping of Course Outcomes with Program outcomes (POs) (1/2/3 indicates strength of correlation) 3-High, 2-Medium, 1-Low											
1	COs/Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO 2	PSO 3
2	CO1	3	3	1	1	1	1	3	H		
	CO2	3	3	1	2	2	2	3			
	CO3	3	2	3	1	3	3	3			
	CO4	3	2	2	1	1	2	3			
	CO5	2	2	2	1	1	1	3			
	CO6	3	3	3	2	3	3	3			
3	Category	Humanities & Social Studies (HS)	Basic Sciences (BS)	Engg Sciences (ES)	Professional Core (PC)	Core Elective (CE)	Non-Major Elective (NE)	Open Elective (OE)	Any other	Project/Term Paper/ Seminar/	
								✓			
4	Approval	Academic Council Meeting									

UNIT I

6

Microprocessor System - Introduction of System overview, Introduction to Processors, Memory Interfacing, Interfacing I/O Devices, Interfacing Data Converters, Display Interface, Serial I/O and Data Communication, Higher level Processors.

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UNIT II

6

Introduction to PC Architecture Study of PC-AT/ATX System, Pentium, Core, Core 2 Duo, Core 2 Duo, I3, I5, I7.

UNIT III

6

Processor Basics of Processor and CPU Block Diagram of Computer and Computer Generation Motherboards, Chipset and Controllers, BIOS and the Boot Process, Computer Memory.

UNIT IV

6

Internal Components IDE and SATA Devices: Hard Disk Drive and CD/DVDs Drives, SCSI Devices, Floppy Disk, Zip Drive, Backup Drive, Expansion Cards- LAN Card, IDE Card, VGA and SVGA Cards, Sound Card, Interface Cards, I/O cards, Video Cards, USB Card, Fire-Wire Cards, Internal Ports, Cables and Connector Types.

UNIT V

6

Introduction of Network Cable like UTP, STP, Fiber Optics, Hub, Unmanageable Switch, Manageable Switch, Router, Modem, Wi-Fi, Access Point, PCI Wireless Card, USB Wireless Device, Print Server, USB Network Sharer, Backup Device, Server Hardware etc.

Text Books

1. Ramesh Gaonkar, "Microprocessor Architecture Programming and Application with the 8085", Penram International Publication, October 2013.

Reference Books:-

1. M.L. Gupta, "Electronics and Radio Engineering", Dhanpat rai & Sons, New Delhi.
2. B. Govinda rajalu, "PC AND CLONES Hardware, Troubleshooting and Maintenance", Tata Mc-graw-Hill Publication.
3. Stephen J. Bigelow, "PC Troubleshooting and Repair", Dream tech Press, New Delhi.

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P18OESC008	COMPUTER PROGRAMMING	L	T	P	C
	Total Contact Hours – 30	2	0	0	2
	Prerequisite course – UG Level				
	Course Coordinator Name & Department:- S.Anupriya/ BCA				

COURSE OBJECTIVES:-

Learners understand the basic concepts of C programming. Practice the use of conditional and looping statements. Implement arrays, functions and pointers. Gain skills to handle strings and files.

COURSE OUTCOMES (COs)

CO1	Understand the concept of data types, loops, functions, array, pointers, string, structures and files.
CO2	Design flow-chart, algorithm and program logic.
CO3	Analyze problems, errors and exceptions.
CO4	Apply programming concepts to compile and debug c programs to find solutions.
CO5	Gain knowledge to use Function, Pointers, Structures, Unions & preprocessor directives
CO6	Construct programs that demonstrate effective use of C.

Mapping of Course Outcomes with Program outcomes (POs)
(1/2/3 indicates strength of correlation) 3-High, 2-Medium, 1-Low

1	COs/Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO 2	PSO3
2	CO1	H	L						H		
	CO2	H	L								
	CO3	H	L	M				H			
	CO4	H	L	M				H			
	CO5	H	L	M				H			
	CO6	H	L	M				H			
3	Category	Humanities & Social Studies (HS)	Basic Sciences (BS)	Engg Sciences (ES)	Professional Core (PC)	Core Elective (CE)	Non-Major Elective (NE)	Open Elective (OE)	Any other	Project/Term Paper/ Seminar/ Internship (PR)	
								✓			
4	Approval	Academic Council Meeting									

UNIT I **6**

Generation and Classification of Computers, Basic organization of a Computer, Number System, Binary, Decimal, Conversion, Problems.

UNIT II **6**

Algorithm, Pseudo code, Flow Chart, Problem formulation, Problem solving , Introduction to “C” programming, Fundamentals, Structure of C Program , compilation and linking processes, Constants, Variables, Data Types.

UNIT III **6**

Expressions using operators in C, Managing input and output operations, Decision making and Branching, Looping Statements.

UNIT IV **6**

Arrays, Initialization, Declaration, One Dimensional and Two Dimensional Arrays, String, String Operations, String Arrays.

UNIT V **6**

Function, Definition of Function, Declaration of Function, Recursion, pointers, pointer and arrays, Structure data type, Structure definition, Structure declaration, Structure within a structure, Union, Storage classes, Pre-processor directives.

Text Books:-

1. Anita Goel and Ajay Mittal, “Computer Fundamentals and programming in C”, Dorling Kindersley (India) Pvt Ltd., Pearson Education in South Asia 2011.
2. Pradip Dey, Manas Ghosh, “fundamentals of computing and programming in c”, First edition, Oxford University Press, 2009.
3. Yashavant P. Kanethar, “Let Us C”, BPB Publications, 2011.

Reference Books:-

1. Byron S Gottfried, “ Programming with C”, Schaum’s Outlines, 2nd Edition, Tata McGraw-Hill 2006.
2. Dromey R.G., “How to Solve it by Computer”, Pearson Education, Fourth Reprint, 2007.
3. Kernighan., B.W and Ritchie, D.M, “ The C Programming Language”, Second Edition, Pearson Education, 2006.

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P18OESC009	OFFICE AUTOMATION TOOLS						L	T	P	C	
	Total Contact Hours – 30						2	0	0	2	
	Prerequisite course – UG Level										
	Course Coordinator Name & Department:- V.Brindha/BCA										
COURSE OBJECTIVES:- Learners understand the basic concepts of word, Excel, Power Point.											
COURSE OUTCOMES (COs)											
CO1	Understand the text manipulations for word documents.										
CO2	Analyze the templates and mail merge concepts.										
CO3	Apply the cell editing, formulae, built in functions used in the Excel Sheet.										
CO4	Develop the power point slide designs and backgrounds.										
CO5	Develop the graphics and animations using wizards.										
CO6	Create a document and apply various formatting techniques										
Mapping of Course Outcomes with Program outcomes (POs) (1/2/3 indicates strength of correlation) 3-High, 2-Medium, 1-Low											
1	COs/Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO 2	PSO 3
	CO1	H	L								H
	CO2	H	L								
	CO3	H	L	M				H			
	CO4	H	L	M				H			
	CO5	H	L	M				H			
	CO6	H	L	M				H			
3	Category	Humanities & Social Studies (HS)	Basic Sciences (BS)	Engg Sciences (ES)	Professional Core (PC)	Core Elective (CE)	Non-Major Elective (NE)	Open Elective (OE)	Any other	Project/Term Paper/ Seminar/ Internship (PR)	
								✓			
4	Approval	Academic Council Meeting									

UNIT I

6

Text Manipulations- font size, style, color. Alignment- left, right and justify, paragraph alignment, Usage of Numbering, Bullets, Footer and Headers, Usage of Spell check, and Find & Replace, Text Formatting, Picture insertion and alignment.

UNIT II

6

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Insertion – Table, chart, clip art, shapes, borders. Creation of documents, saving of documents, using templates, Creation templates, Mail Merge Concepts, Copying Text & Pictures from Excel.

UNIT III

6

Creating of Excel sheet, Cell Editing, Usage of Formulae and Built-in Functions, File Manipulations, Data Sorting, Worksheet Preparation, Drawing Graphs, Usage of Auto Formatting.

UNIT IV

6

Start power point, Create blank presentation, Selecting slide layout , Insert new slide, Editing presentation , Designing and formatting presentation , Change font, font color, size, style of text, Bullet and numbering, Slide design, layout, change background , preparing slide show presentation.

UNIT V

6

Inserting Clip arts and Pictures, Frame movements, Insertion of new slides. Preparation of Organization Charts, Presentation using Wizards, Usage of design templates, working with tables, graphics and animation, working with graphs and organization charts.

Text Books

1. Joyce Cox, Joan Lambert and Curtis Fryc, “Step by Step Microsoft Office Professional 2010”, Microsoft press edition.

Reference Books

1. Ralph T. Reilly, “The Handbook of Office Automation”, Universe Publications, 2012.

Course Coordinator

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P18OEMI001	CLINICAL MICROBIOLOGY							L	T	P	C
	Total Contact Hours – 30							2	0	0	2
	Prerequisite course – Under graduate degree in any discipline										
	Course Coordinator Name & Department:- Dr. J. Senthil & Microbiology										
COURSE OBJECTIVES:- Learners will be familiar with microbiological related diagnostic techniques. Learners will understand the microbial morphology, structure, characters, classification, diseases and diagnostic tests.											
COURSE OUTCOMES (COs)											
CO1	Recall the general classification of microbes.										
CO2	Recognize the different specimen collection methods and staining methods.										
CO3	Apply different diagnostic tests to identify the diseases.										
CO4	Apply the role of human pathogens in causing diseases.										
CO5	Analyze the importance of antimicrobial compounds.										
CO6	Analyze and develop new antimicrobial drugs and antibiotics against wide range of pathogens.										
Mapping of Course Outcomes with Program Outcomes (POs) (H/M/L indicates strength of correlation) H-High, M-Medium, L Low											
1	COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
2	CO1	H	M						H		
	CO2	H	M								
	CO3	H	M								
	CO4	H	M								
	CO5	H	M								
	CO6	H	M								
3	Category	Humanities & Social Studies (HS)	Basic Sciences (BS)	Engg Sciences (ES)	Professional Core (PC)	Core Elective (CE)	Non-Major Elective (NE)	Open Elective (OE)	Any other	Project/Term Paper/ Seminar/ Internship (PR)	
4	Approval	Academic Council Meeting									

UNIT I

6

General introduction about clinical microbiology, Sterilization and Disinfection., Culture Media preparation, Staining Methods, Collection and Transportation of Specimen - General Principles, Containers, Rejection, Samples - Urine, Faeces, Sputum, Pus, Body fluids, Swab, Blood, Disposal of Laboratory/Hospital Waste.

UNIT II

6

General characters and classification of bacteria, Characteristics - Growth and maintenance of Bacteria, Pathogenicity and diagnosis of bacterial pathogens, antimicrobial compounds against clinical pathogens.

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UNIT III

6

Morphology and structure of fungi - Classification of fungi - Nutrition and cultivation of fungus -

Cutaneous & Sub cutaneous and Systemic Mycosis - Lab diagnosis of fungal Infections - Opportunistic fungal infections.

UNIT IV

6

General characters of viruses. - Classification of viruses. - Lab diagnosis of viral infections. - Cultivation of viruses. - Bacteriophages - Retro viruses - HIV, Hepatitis virus, Pox virus . - Picorna virus - Polio. - Orthomyxo virus - Influenza. - Arbo virus - Chikungunya, Dengue. - Herpes and Adeno virus.

UNIT V

6

Definition - parasitism, host, vectors etc. Classification of Parasites, Phylum Protozoa- general Pathogenic and non pathogenic protozoa, Phylum Nematelminthes/Round worms (Nematoda), Phylum Platyhelminthes - class - Cestoda, class - Trematoda, Lab diagnosis of parasitic infections.

TEXT BOOKS:

1. Monica Chees Brough. Medical laboratory manual for tropical countries, Elsevier Health Sciences, Butter worths, 1987.
2. Bailey and Scott. Diagnostic Microbiology, Eighth edition, The Mosby Company, 1990.

REFERENCE BOOKS:

1. Keith Struthers K. Clinical Microbiology, 2nd Edition, CRC Press, 2017.
2. Jennie Wilson. Clinical Microbiology - An Introduction for Healthcare Professional, 8th Edition, Baillière Tindall, 2000.

Course Coordinator

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P18OEMI002	HERBAL MEDICINE						L	T	P	C	
	Total Contact Hours – 30						2	0	0	2	
	Prerequisite course – Under graduate degree in any discipline										
	Course Coordinator Name & Department:- Dr. J. Senthil & Microbiology										
COURSE OBJECTIVES:- Learners will be familiar with medicinal herbs. Learners will understand the importance of herbal drugs and herbal therapies.											
COURSE OUTCOMES (COs)											
CO1	Recall the herbal medicines used in daily life.										
CO2	Recognize the different methods of herbal extraction and its types.										
CO3	Apply various herbal medicines in curing the diseases.										
CO4	Analyze the role of herbs in drug discovery.										
CO5	Evaluate the importance and toxicity studies of herbal extracts.										
CO6	Create and develop new drugs from wide range of medicinal plants available worldwide.										
Mapping of Course Outcomes with Program Outcomes (POs) (H/M/L indicates strength of correlation) H-High, M-Medium, L Low											
1	COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
2	CO1								H		
	CO2										
	CO3										
	CO4										
	CO5										
	CO6										
3	Category	Humanities & Social Studies (HS)	Basic Sciences (BS)	Engg Sciences (ES)	Professional Core (PC)	Core Elective (CE)	Non-Major Elective (NE)	Open Elective (OE)	Any other	Project/Term Paper/ Seminar/ Internship (PR)	
4	Approval	Academic Council Meeting									

UNIT I

6

Definition of Herbal drug, Importance of Herbal therapies, Herbs used as nutraceuticals and healing agents. Making and using herbal medicines for common ailments like cold, skin infections and Diarrhea; Analytical Profiles of selected herbs.

UNIT II

6

General methods of extraction, types and principles of extractions - merits and demerits, selection of

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suitable extraction methods, purification and recovery of solvents

UNIT III

6

Different methods for isolation and estimation of phyto-constituents from medicinal herbs like *Mucuna pruriens*, *Garcinia combogia*, Green tea, *Hypericum species* etc.

UNIT IV

6

Qualitative and Quantitative estimation of standardized extracts by HPTLC, Biological standardization - Pharmacological screening of herbal extracts and Microbiological evaluation of herbal extracts, Toxicity studies of herbal extracts.

UNIT V

6

Herbal drugs acting on brain and nervous system – Rheumatoid arthritis – Psychoactive drugs – Depressants, Stimulants, hallucinogens – sources, effects, basic mechanism of action.

TEXT BOOKS:

1. Indian Herbal Pharmacopoeia, Vol.1 & 2, RRL, 1 DMA, 1998, 2000.
2. Kokate CK, Purohit and Gokhale. Text book of Pharmacognosy, 4th edition, Nirali Prakashan, 1996.

REFERENCE BOOKS:

1. Toxicology and Clinical Pharmacology of Herbal Products, Melanie Johns Cupp.
2. Choudhary RD. Herbal drug industry, 1st edition, Eastern publisher, New Delhi, 1996.

Course Coordinator

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P18OEPH001	ELECTRICAL TECHNICIAN					L	T	P	C		
	Total Contact Hours - 60					2	1	0	4		
	Prerequisite – B.Sc Physics										
	Course Coordinator Name & Department:- Dr. S.Anandhi / Physics										
OBJECTIVES: Students will have an appreciation on the electrical systems and electrical equipment typically used in the Oil and Gas production plant.											
COURSE OUTCOMES (COs)											
CO1	Analyze and solve routine technical problems related to electrical systems by applying mathematics and science principles.										
CO2	Explain how to used electrical tools, operate and maintain specific equipment in the Oil and Gas production plant										
CO3	Explain how to perform corrective and preventive maintenance in electrical tasks.										
CO4	Understand the work on electrical systems safely and efficiently.										
CO5	Understand the electrical system and electrical equipment used in the Oil and Gas production plant.										
CO6	To execute the principle and how to working process of the transformer and classification of transformer										
Mapping of Course Outcomes with Program outcomes (POs) (1/2/3 indicates strength of correlation) 3-High, 2-Medium, 1-Low											
1	COs/Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PS O2	PS O3
2	CO1	H	H					H			
	CO2	H	H					H			
	CO3	M	M					H			
	CO4	M	H					H			
	CO5	H	H					H			
	CO6	H	H					H			
3	Category	Humanities & Social Studies (HS)	Basic Sciences (BS)	Engg Sciences (ES)	Professional Core (PC)	Core Elective (CE)	Non-Major Elective (NIE)	Open Elective (OE)	Any other	Project/Term Paper/ Seminar/ Internship (PR)	
								✓			
4	Approval	Academic Council Meeting									

UNIT-I

6

Basic Principle Of Petroleum - Overview of Oil and Gas Processing -Wellhead Platform and Equipment

UNIT-II

6

Introduction to Instrumentation -P & ID Drawing -Introduction to Distributed Control System (DCS)

UNIT-III

6

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Safety in Electrical Maintenance - Batteries and Chargers -Reading Electrical Diagrams -Cables and Conductors - Terminations and Splices - Motor Branch Circuit Protections

UNIT-IV

6

Three Phase AC Induction Motors - AC Generator Maintenance -Fire & Gas Detection and Safety Systems and SIS -DC Generator-Construction&Principle- Types-Series,-Shunt &Compound Generator- EMF equation, Characteristics - (OCC & LCC). Armature reactions-commutation Efficiency, Regulation & Applications. DC Motor- Construction& Principle. Types- Series, Shunt & Compound Motors. Characteristics curve-Applications. Necessity of starter- Construction and Working of- starters (3 point& 4 point). Speed control of DC Shunt-motor (armature & Field control. Traction System.- Trouble shooting –Care and maintenance.

UNIT-V

6

Transformer –Principle -Construction-Classification of Transformers - EMF equation ,rating - Loading, Losses & Efficiency Regulation. Parallel Operation- Cooling methods, Transformer- oil testing. Care and maintenance,- Protective devices. Tap Changer – ON load and OFF- load. Auto transformer, Instrument- Transformer- CT &PT. Welding Transformer.

TEXT BOOKS

1. Fundamental Electrical circuits by Charles K.Alexandeer and Matthew NOSadiku(2003)
2. Fundamental of Digital circuits 3rd edition by Kumar A Anandh

Institute of Higher Education and Research
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Department of Commerce

AUDIT COURSE

P18ACEN001	AUDIT COURSE : ENGLISH FOR RESEARCH PAPER WRITING								L	T	P	C
	Total Contact Hours – 30								2	0	0	0
	Prerequisite course – UG Level											
	Course Coordinator Name & Department:- Ms.Subathra/English											
COURSE OBJECTIVES:- Understand the skills needed when writing a Title Ensure the good quality of paper at very first-time submission.												
COURSE OUTCOMES (COs)												
CO1	Recognize to prepare and Plan the word order, breaking of long sentences, structural formation of paragraph and being concise without any ambiguities.											
CO2	Describe how to write abstract and introduction to any topic or project.											
CO3	Relate the skills require for the discussions and conclusions.											
CO4	Express the quality of paper and time management in writing skills.											
CO5	Illustrate the useful phrase and how to ensure the paper is as good.											
CO6	Prepare the oral presentation in class using effective delivery strategies.											
Mapping of Course Outcomes with Program outcomes (POs) (H/M/L indicates strength of correlation) H-High, M-Medium, L-Low												
1	COs/Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PS O2	PSO3	
2	CO1		H	L					-	-	-	
	CO2		H	L								
	CO3		H	L								
	CO4		H	L								
	CO5		H	L								
	CO6		H	L								
3	Category	Humanities & Social Studies (HS)	Basic Sciences (BS)	Engg Sciences (ES)	Professional Core (PC)	Core Elective (CE)	Non-Major Elective (NE)	Open Elective (OE)	Any other	Project/Term Paper/ Seminar/ Internship (PR)		
4	Approval	Academic Council Meeting										

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Department of Commerce

UNIT - 1: PLANNING AND PREPARATION : **6**

Planning and Preparation - word order - breaking up long sentences, structuring, paragraphs and sentences, being concise and removing redundancy, avoiding ambiguity and vagueness.

UNIT-2 : ABSTRACT **6**

Clarifying who did what - highlighting your findings - hedging and criticizing - paraphrasing and plagiarism - sections of a paper - abstracts - introduction.

UNIT -3 : DISCUSSION AND CONCLUSION **6**

Review of the literature - methods - results - discussion - conclusions, the final check - key skills are needed when writing a title - key skills are needed when writing an abstract - key skills are needed when writing an introduction - skills needed when a review of the literature.

UNIT -4 : WRITING SKILLS **6**

Skills are needed when writing the methods - skills needed when writing the results - skills are needed when writing the discussion - skills are needed when writing the conclusions.

UNIT -5: QUALITY AND TIME MAINTAINANCE **6**

Useful phrases - how to ensure paper is as good as it could possibly be the first -time submission.

TEXT BOOKS :

1. Goldbort R (2006) Writing for Science, Yale University Press (Available on Google Books).
2. Day R(2006), How to Write and Publish a Scientific Paper, Cambridge University Press.

REFERENCE BOOKS :

1. HighmanN, Handbook of Writing for the Mathematical Sciences, SIAM, Highman's Book, 1st, Edition, 1998.
2. Adrian Wallwork, English for Writing Research Papers, Springer New York Dordrecht Heidelberg London, 2nd Edition, 2011.

Bharath Institute of Higher Education and Research
Faculty of Arts and Science
Department of Commerce

P18ACCE002	AUDIT COURSE : DISASTER MANAGEMENT								L	T	P	C
	Total Contact Hours – 30								2	0	0	0
	Prerequisite course – UG Level											
	Course Coordinator Name & Department:- Ms.Jhoncy/ Dept. of Business Administration											
COURSE OBJECTIVES:- Develop an understanding of standards of humanitarian response and practical relevance in specific types of disasters and conflict situations.												
COURSE OUTCOMES (COs)												
CO1	Remember the key concepts in disaster risk reduction and humanitarian response.											
CO2	Understand the disaster risk reduction and humanitarian response policy from multiple perspectives.											
CO3	Illustrate the standards of humanitarian response.											
CO4	Criticize the practical relevance in specific types of disasters and conflict situations.											
CO5	Evaluate the strengths and weakness of disaster management approaches.											
CO6	Predict the planning and programming in different countries, particularly their home country or the countries they work .											
Mapping of Course Outcomes with Program outcomes (POs) (H/M/L indicates strength of correlation) H-High, M-Medium, L-Low												
1	COs/Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PS O1	PS O2	PS O3	
2	CO1						H		-	-	-	
	CO2						H					
	CO3						H					
	CO4						H					
	CO5						H					
	CO6						H					
3	Category	Humanities & Social Studies (HS)	Basic Sciences (BS)	Engg Sciences (ES)	Professional Core (PC)	Core Elective (CE)	Non-Major Elective (NE)	Open Elective (OE)	Any other	Project/Term Paper/ Seminar/ Internship (PR)		
4	Approval	Academic Council Meeting										

UNIT - : INTRODUCTION: 6

Disaster : Definition - Factors and Significance - Difference between Hazard and Disaster - Natural and Manmade Disasters - Difference - Nature - Types and Magnitude.

UNIT - 2 : REPERCUSSIONS OF DISASTERS AND HAZARDS: 6

Economic Damage - Loss Of Human And Animal Life - Destruction Of Ecosystem - Natural Disasters: Earthquakes - Volcanisms - Cyclones - Tsunamis - Floods - Droughts And Famines - Landslides And Avalanches - Man-made disaster.

UNIT -3 : DISASTER PRONE AREAS IN INDIA: 6

Study Of Seismic Zones - Areas Prone To Floods And Droughts - Landslides And Avalanches - Areas Prone To Cyclonic And Coastal Hazards With Special Reference To Tsunami - Post-Disaster Diseases And Epidemics.

UNIT -4 : DISASTER PREPAREDNESS AND MANAGEMENT 6

Preparedness: Monitoring Of Phenomena Triggering A Disaster Or Hazard - Evaluation Of Risk: Application Of Remote Sensing, Data From Meteorological And Other Agencies - Media Reports: Governmental And Community Preparedness.

UNIT -5 : RISK ASSESSMENT 6

Disaster Risk: Concept And Elements - Disaster Risk Reduction, Global And National Disaster Risk Situation - Techniques Of Risk Assessment - Global Co- Operation In Risk Assessment And Warning, People's Participation In Risk Assessment - Strategies for Survival.

TEXT BOOKS:

1. R. Nishith, Singh AK, "Disaster Management in India: Perspectives, issues and strategies "New Royal book Company.

REFERENCE BOOKS:

1. Sahni, PardeepEt.Al. (Eds.), "Disaster Mitigation Experiences And Reflections", Prentice Hall Of India, New Delhi.
2. Goel S. L. , Disaster Administration And Management Text And Case Studies" ,Deep &Deep Publication Pvt. Ltd., New Delhi.

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P18ACEN003	AUDIT COURSE : SANSKRIT FOR TECHNICAL KNOWLEDGE							L	T	P	C
	Total Contact Hours – 30							2	0	0	0
	Prerequisite course – UG Level										
	Course Coordinator Name & Department:- Ms.Subathra / Dept. of English										
COURSE OBJECTIVES:- Learners will get a working knowledge in illustrious Sanskrit, the scientific language in the world.											
COURSE OUTCOMES (COs)											
CO1	Remember the learning of Sanskrit to improve brain functioning										
CO2	Review the Learning of Sanskrit to develop the logic in mathematics, science & other subjects enhancing the memory power										
CO3	Practice the engineering scholars equipped with Sanskrit will be able to explore the huge knowledge from ancient literature										
CO4	Identify the uses of basic Sanskrit language										
CO5	Estimate Ancient Sanskrit literature about science & technology can be understood										
CO6	Develop the projects either individual or group on presentations.										
Mapping of Course Outcomes with Program outcomes (POs) (H/M/L indicates strength of correlation) H-High, M-Medium, L-Low											
1	COs/Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PS O1	PS O2	PS O3
2	CO1		H	L					-	-	-
	CO2		H	L							
	CO3		H	L							
	CO4		H	L							
	CO5		H	L							
	CO6		H	L							
3	Category	Humanities & Social Studies (HS)	Basic Sciences (BS)	Engg Sciences (ES)	Professional Core (PC)	Core Elective (CE)	Non-Major Elective (NE)	Open Elective (OE)	Any other	Project/Term Paper/ Seminar/ Internship (PR)	
									✓		
4	Approval	Academic Council Meeting									

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Department of Commerce

UNIT -1 : INTRODUCTION: 6

Alphabets, Consonants, Nouns Declensions; Nominative, Accusative(singular, dual and plural)

UNIT - 2 : BASIC OF SANSKRIT LITERATURE: 6

Instrumental case, Dative, Ablative, and Indeclinables, verbal conjugation: first person, second person, third person: Present Tense.

UNIT - 3 : FUNDAMENTALS OF SANSKRIT ARCHITECTURE: 6

Genitive, locative and Vocative Absolute, Masculine Gender, Feminine Gender and Neuter Gender.

UNIT -4 : VERBAL CONJUGATION: 6

Verbal Conjugation: Past Tense and Future Tense Declensions ending in Rāmaḥ, Kaviḥ, Bhānuḥ, Mātr , Mālā

UNIT - 5 : TRANSLATION: 6

Translation of simple sentences, Stories & selected Subhashitas

TEXT BOOKS:

1. “Abhyastakam” – Dr.Vishwas, Samskrita-Bharti Publication, New Delhi.
2. Sanskrit for Beginners by Dr. M. Narasimhacharyand Dr.S. Ramaratnam, N&R Publications, Chennai & New Delhi.

REFERENCE BOOKS :

1. “Teach Yourself Sanskrit” Prathama Deeksha-VempatiKutumbshastri, Rashtriya Sanskrit Sansthanam, New Delhi Publication.
2. “India’s Glorious Scientific Tradition” Suresh Soni, Ocean books (P) Ltd., New Delhi.

Course Coordinator

HOD

Bharath Institute of Higher Education and Research
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Department of Commerce

P18ACBA004	AUDIT COURSE : VALUE EDUCATION								L	T	P	C
	Total Contact Hours – 30								2	0	0	0
	Prerequisite course – UG Level											
	Course Coordinator Name & Department:- Mr.Srinivasan/ Dept. of Business Administration											
COURSE OBJECTIVES:- Our objectives are to promote a new understanding and framework help learners to achieve positive and purposeful lives for themselves and their communities through engaging with values to guide and inform their behaviour.												
COURSE OUTCOMES (COs)												
CO1	Remember and describe feelings of self-worth that arise through striving for personal success in physical activity and sport											
CO2	Demonstrate the tolerance of other people's abilities during physical activity and sport											
CO3	Generalize the Values, attitudes that they need to develop in their class programmes											
CO4	Choose the essential steps to become good leaders.											
CO5	Select their role and contribution to the nation building.											
CO6	Prepare to understand value of education and self- development											
Mapping of Course Outcomes with Program outcomes (POs) (H/M/L indicates strength of correlation) H-High, M-Medium, L-Low												
1	COs/Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	
2	CO1				H			L	-	-	-	
	CO2				H			L				
	CO3				H			L				
	CO4				H			L				
	CO5				H			L				
	CO6				H			L				
3	Category	Humanities & Social Studies (HS)	Basic Sciences (BS)	Engg Sciences (ES)	Professional Core (PC)	Core Elective (CE)	Non-Major Elective (NE)	Open Elective (OE)	Any other	Project/Term Paper/ Seminar/ Internship (PR)		
									✓			
4	Approval	Academic Council Meeting										

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UNIT-I:

6

Value Education - Definition - relevance to present day - Concept of Human Values - self introspection - Self esteem.

UNIT-II:

6

Family values - Components, structure and responsibilities of family - Neutralization of anger - Adjustability - Threats of family life - Status of women in family and society - Caring for needy and elderly - Time allotment for sharing ideas and concerns.

UNIT-III:

6

Ethical values - Professional ethics - Mass media ethics - Advertising ethics - Influence of ethics on family life - psychology of children and youth - Leadership qualities - Personality development.

UNIT-IV:

6

Social values - Faith, service and secularism - Social sense and commitment - Students and Politics - Social awareness, Consumer awareness, Consumer rights and responsibilities - Redressal mechanisms.

UNIT-V:

6

Effect of international affairs on values of life/ Issue of Globalization - Modern warfare - Terrorism. Environmental issues - mutual respect of different cultures, religions and their beliefs.

TEXT BOOKS:

1. T. Anchukandam and J. Kuttanimathathil (Ed) Grow Free Live Free, Krisitu Jyoti Publications, Bangalore (1995).
2. Mani Jacob (Ed) Resource Book for Value Education, Institute for Value Education, New Delhi 2002.

REFERENCE BOOKS:

1. DBNI, NCERT, SCERT, Dharma Bharti National Institute of Peace and Value Education, Secunderabad, 2002.
2. Daniel and Selvamony - Value Education Today, (Madras Christian College, Tambaram and ALACHE, New Delhi, 1990)
3. S. Ignacimuthu - Values for Life - Better Yourself Books, Mumbai, 1991.
4. M.M.M.Mascaronhas Centre for Research Education Science and Training for Family Life Promotion - Family Life Education, Bangalore, 1993.

Course Coordinator

HOD

Bharath Institute of Higher Education and Research
Faculty of Arts and Science
Department of Commerce

P18ACLW005	AUDIT COURSE : CONSTITUTION OF INDIA								L	T	P	C
	Total Contact Hours – 30								2	0	0	0
	Prerequisite course – UG Level											
	Course Coordinator Name & Department:- Mr.Prakash/Dept. of Law											
COURSE OBJECTIVES:- To Understand the premises informing the twin themes of liberty and freedom from a civil rights perspective.												
COURSE OUTCOMES (COs)												
CO1	Underline to address the growth of Indian opinion regarding modern Indian intellectuals											
CO2	Express the constitutional role and entitlement to civil and economic rights											
CO3	Utilize the emergence of nationhood in the early years of Indian nationalism.											
CO4	Distinguish the role of socialism in India											
CO5	Judge the commencement of the Bolshevik Revolution											
CO6	Predict its impact on the initial drafting of the Indian Constitution											
Mapping of Course Outcomes with Program outcomes (POs) (H/M/L indicates strength of correlation) H-High, M-Medium, L-Low												
1	COs/Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PS O1	PS O2	PS O3	
2	CO1			H				L	-	-	-	
	CO2			H				L				
	CO3			H				L				
	CO4			H				L				
	CO5			H				L				
	CO6			H				L				
3	Category	Humanities & Social Studies (HS)	Basic Sciences (BS)	Engg Sciences (ES)	Professional Core (PC)	Core Elective (CE)	Non-Major Elective (NE)	Open Elective (OE)	Any other	Project/Term Paper/ Seminar/ Internship (PR)		
									✓			
4	Approval	Academic Council Meeting										

Bharath Institute of Higher Education and Research
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Department of Commerce

UNIT -1 : HISTORY OF MAKING OF THE INDIAN CONSTITUTION: 6

History - Drafting Committee, (Composition & Working)

UNIT -2 : PHILOSOPHY OF THE INDIAN CONSTITUTION: 6

Preamble - Salient Features - Directive Principles of State Policy - Fundamental Duties.

UNIT - 3 : CONTOURS OF CONSTITUTIONAL RIGHTS & DUTIES: 6

Fundamental Rights - Right to Equality - Right to Freedom - Right against Exploitation - Right to Freedom of Religion - Cultural and Educational Rights - Right to Constitutional Remedies.

UNIT -4 : ORGANS OF GOVERNANCE: 6

Parliament - Composition - Qualifications and Disqualifications - Powers and Functions - Executive President - Governor - Council of Ministers - Judiciary, Appointment and Transfer of Judges, Qualifications - Powers and Functions.

UNIT - 5 : LOCAL ADMINISTRATION & ELECTION COMMISSION : 6

District's Administration head: Role and Importance - Introduction, Mayor and role of Elected Representative CEO of Municipal Corporation - Pachayati raj: Introduction, PRI: Zila Pachayat - Elected officials and their roles - Introduction of Election Commission - Election Commission: Role and Functioning - Chief Election Commissioner and Election Commissioners - State Election Commission: Role and Functioning - Institute and Bodies for the welfare of SC/ST/OBC and women.

TEXT BOOKS:

1. The Constitution of India, 1950 (Bare Act), Government Publication.
2. Dr. S. N. Busi, Dr. B. R. Ambedkar framing of Indian Constitution, 1st Edition, 2015.

REFERENCE BOOKS:

1. M. P. Jain, Indian Constitution Law, 7th Edn., Lexis Nexis, 2014.
2. D.D. Basu, Introduction to the Constitution of India, Lexis Nexis, 2015.

Course Coordinator

HOD

Bharath Institute of Higher Education and Research
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Department of Commerce

P18ACBA006	AUDIT COURSE : PEDAGOGY STUDIES								L	T	P	C
	Total Contact Hours – 30								2	0	0	0
	Prerequisite course – UG Level											
	Course Coordinator Name & Department:- Dr.Arunkumar / Dept. of Business Administration											
COURSE OBJECTIVES:- To inform programme design and policy making undertaken by the DfID, other agencies and researchers.												
COURSE OUTCOMES (COs)												
CO1	List common training so everyone teaches from the same curriculum											
CO2	Describe to learners what is expected of them											
CO3	Illustrate the teacher education (curriculum and practicum) and the school curriculum and guidance materials best support effective pedagogy.											
CO4	Inspect the review existing evidence on the review topic to inform programme design.											
CO5	Assess how the outcomes of a single course align with larger outcomes for an entire program											
CO6	Plan appropriate teaching strategies, materials and assessments											
Mapping of Course Outcomes with Program outcomes (POs) (H/M/L indicates strength of correlation) H-High, M-Medium, L-Low												
1	COs/Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PS O1	PS O2	PS O3	
2	CO1		H	L					-	-	-	
	CO2		H	L								
	CO3		H	L								
	CO4		H	L								
	CO5		H	L								
	CO6		H	L								
3	Category	Humanities & Social Studies (HS)	Basic Sciences (BS)	Engg Sciences (ES)	Professional Core (PC)	Core Elective (CE)	Non-Major Elective (NE)	Open Elective (OE)	Any other	Project/Term Paper/ Seminar/ Internship (PR)		
									✓			
4	Approval	Academic Council Meeting										

UNIT - 1 : INTRODUCTION AND METHODOLOGY: 6

Aims and rationale, Policy background, Conceptual framework and terminology - Theories of learning - Curriculum - Teacher education - Conceptual framework, Research questions - Overview of methodology and Searching.

UNIT - 2 : THEMATIC OVERVIEW: 6

Pedagogical practices are being used by teachers in formal and informal classrooms in developing countries - Curriculum, Teacher education.

UNIT - 3 : EVIDENCE ON THE EFFECTIVENESS OF PEDAGOGICAL PRACTICES :-6

Methodology for the in depth stage: quality assessment of included studies - How can teacher education (curriculum and practicum) and the school curriculum and guidance materials best support effective pedagogy? Theory of change - Strength and nature of the body of evidence for effective pedagogical practices.

UNIT - 4 : PROFESSIONAL DEVELOPMENT: 6

Alignment with classroom practices and follow up support - Peer support - Support from the head teacher and the community - Curriculum and assessment - Barriers to learning: limited resources and large class sizes

UNIT - 5 : Research gaps and future directions:- 6

Research design - Contexts - Pedagogy - Teacher education - Curriculum and assessment - Dissemination and research impact.

TEXT BOOKS:

1. Ackers J, Hardman F (2001) Classroom interaction in Kenyan primary schools, Compare, 31 (2): 245-261.
2. Agrawal M (2004) Curricular reform in schools: The importance of evaluation, Journal o Curriculum Studies, 36 (3): 361-379.
3. Akyeampong K (2003) Teacher training in Ghana - does it count? Multi-site teacher education research project (MUSTER) country report 1. London: DFID.

REFERENCE BOOKS:-

1. Akyeampong K, Lussier K, Pryor J, Westbrook J (2013) Improving teaching and learning of basic maths and reading in Africa: Does teacher preparation count? International Journal Educational Development, 33 (3): 272–282.
2. Alexander RJ (2001) Culture and pedagogy: International comparisons in primary education. Oxford and Boston: Blackwell.
3. Chavan M (2003) Read India: A mass scale, rapid, ‘learning to read’ campaign.

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P18ACBA007	AUDIT COURSE : PERSONALITY DEVELOPMENT THROUGH LIFE ENLIGHTENMENT SKILLS								L	T	P	C
	Total Contact Hours – 30								2	0	0	0
	Prerequisite course – UG Level											
	Course Coordinator Name & Department:- Mr.Srinivasan/Dept.of Business Administration											
COURSE OBJECTIVES:- To become a person with stable mind, pleasing personality and determination												
COURSE OUTCOMES (COs)												
CO1	Identify the way to achieve the highest goal happily											
CO2	Review to awaken wisdom for learners											
CO3	Schedule to study of Shrimad-Bhagwad-Geeta will help the student											
CO4	Developing his personality and achieve the highest goal in life											
CO5	Evaluate the person who has studied Geeta will lead the nation and mankind to peace and prosperity											
CO6	Propose to study of Neetishatakam will help in developing versatile personality of students											
Mapping of Course Outcomes with Program outcomes (POs) (H/M/L indicates strength of correlation) H-High, M-Medium, L-Low												
1	COs/Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PS O1	PS O2	PS O3	
2	CO1		H					H	-	-	-	
	CO2		H					L				
	CO3		H					H				
	CO4		H					L				
	CO5		L					H				
	CO6		H					H				
3	Category	Humanities & Social Studies (HS)	Basic Sciences (BS)	Engg Sciences (ES)	Professional Core (PC)	Core Elective (CE)	Non-Major Elective (NE)	Open Elective (OE)	Any other	Project/Term Paper/ Seminar/ Internship (PR)		
4	Approval	Academic Council Meeting										

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UNIT - 1 : HOLISTIC DEVELOPMENT OF PERSONALITY- I **6**

Neetisatakam-Holistic development of personality : Verses- 19,20,21,22 (wisdom) - Verses- 29,31,32 (pride & heroism) - Verses- 26,28,63,65 (virtue) - Verses- 52,53,59 (don't's) - Verses- 71,73,75,78 (do's).

UNIT - 2 : BHAGWADGEETA: **6**

Approach to day to day work and duties. ShrimadBhagwadGeeta: Chapter 2-Verses 41, 47,48. Chapter 3-Verses 13, 21, 27, 35.

UNIT - 3: BHAGWAD GEETA:- **6**

ShrimadBhagwadGeeta: Chapter 6-Verses 5, 13, 17, 23, 35, Chapter 18-Verses 45, 46, 48.

UNIT - 4: BASIC KNOWLEDGE: **6**

Statements of basic knowledge. ShrimadBhagwadGeeta: Chapter2-Verses 56, 62, 68. Chapter 12 - Verses 13,14, 15, 16,17, 18.

UNIT - 5: ROLE MODEL : - **6**

Personality of Role model. Shrimad BhagwadGeeta: Chapter2-Verses 17, Chapter 3-Verses 36,37,42, - Chapter 4-Verses 18, 38,39 - Chapter18 – Verses 37,38,63.

TEXT BOOK:

1. P.Gopinath, “Bhartrihari’s Three Satakam (Niti-sringar-vairagya)”, Rashtriya Sanskrit Sansthanam, New Delhi.

REFERENCE BOOK:

1. “Srimad Bhagavad Gita” by Swami SwarupanandaAdvaita Ashram (Publication Department), Kolkata.
2. http://openlearningworld.com/section_personality_development.html

Course Coordinator

HOD

SEMESTER I								
Sl. No	Course Code	Category	Course Name	Contact Hours/ Week	L	T	P	C
THEORY								
1	P18FCMB111	FC	Quantitative Techniques	4	4	0	0	4
2	P18FCMB112	FC	Economic Foundation Of Business Environment	3	3	0	0	3
3	P18FCMB113	FC	Principles of Management	3	3	0	0	3
4	P18FCMB114	FC	Accounting for Management	3	3	0	0	3
5	P18FCMB115	FC	Organizational Behavior	3	3	0	0	3
6	P18AEMB116	AEC	Business Communication	3	3	0	0	3
7	P18PCMB117	PC	Entrepreneurship and Small Business Management	3	3	0	0	3
8		OE	Open Elective-I	0	0	0	0	2
PRACTICAL								

9	P18LCMB118	AEC	Soft Skill - I	4	0	0	4	2
10	P18LCMB119	FC	Introduction to Computers Lab	4	0	0	4	2
Total No. of Periods :30				Total No of Credits : 28				

SEMESTER II									
Sl.No	Course Code	Category	Course Name	Contact hours/ Week	L	T	P	C	
THEORY									
1	P18PCMB121	PC	Financial Management	3	3	0	0	3	
2	P18PCMB122	PC	Human Resource Management	3	3	0	0	3	
3	P18PCMB123	PC	Research Methodology	4	4	0	0	4	
4	P18PCMB124	PC	Marketing Management	3	3	0	0	3	
5		PE	Professional Elective - I	3	3	0	0	3	
6		PE	Professional Elective – II	3	3	0	0	3	
7		PE	Professional Elective - III	3	3	0	0	3	
8		OE	Open Elective-II	0	0	0	0	2	
PRACTICAL									
9	P18LCMB125	AEC	Soft Skill II	4	0	0	4	2	
10	P18LCMB126	FC	Business Application Software Lab	4	0	0	4	2	
Total No. of Periods :30				Total No of Credits : 28					

SEMESTER III								
Sl.No	Course Code	Category	Course Name	Contact hours/ Week	L	T	P	C
THEORY								
1	P18PCMB231	PC	Strategic Management	3	3	0	0	3
2	P18PCMB232	PC	Business Analytics	3	3	0	0	3
3	P18PCMB233	PC	Production and Operations Management	3	3	0	0	3
4	P18PCMB234	PC	Operations Research	4	4	0	0	4
5		PE	Professional Elective - IV	3	3	0	0	3
6		PE	Professional Elective – V	3	3	0	0	3
7		PE	Professional Elective - VI	3	3	0	0	3
PRACTICAL								
8	P18LCMB235	AEC	Soft Skill III	4	0	0	4	2
9	P18LCMB236	FC	Web Design	4	0	0	4	2
10	P18PRMB237	AEC	Summer Project Work	0	0	0	6	3
	Total No. of Periods:30			Total No of Credits : 29				

SEMESTER IV								
Sl.No	Course Code	Category	Course Name	Contact hours/ Week	L	T	P	C
THEORY								
1	P18PCMB241	PC	International Business Management	3	3	0	0	3
2	P18PCMB242	PC	Business Ethics, Corporate Social Responsibility and Governance	3	3	0	0	3
3	P18FCMB243	FC	Legal Aspects of Business	3	3	0	0	3
PRACTICAL								
4	P18PRMB244	AEC	Project Work	0	0	0	12	6
Total No. of Periods :9				Total No of Credits : 15				

Apart from core and elective courses, the following **Open Electives (OE) Courses and Massive Open Online Courses (MOOC)** can be opted which will engage and empower students by allowing them to discuss debate and solve real business challenges for MBA program:

OPEN ELECTIVES

Sl. No	Course Code	Category	Course Name	Contact hours/ Week	L	T	P	C
PRACTICE								
1	P18OEMB001	OE	Outbound Experiential Learning Programmes	0	0	0	0	2
2	P18OEMB002	MOOC	MOOC Courses	0	0	0	0	2
3	P18OEMB003	OE	NSE and other similar Certification Programs	0	0	0	0	2
4	P18OEMB004	OE	Social Sensitization Projects	0	0	0	0	2
5	P18OEMB005	OE	Community Development Projects	0	0	0	0	2
6	P18OEMB006	OE	Rural Innovation Projects	0	0	0	0	2
7	P18OEMB007	OE	Industry or Academic Internships	0	0	0	0	2
8	P18OEMB008	OE	Study Abroad Programme	0	0	0	0	2
9	P18OEMB009	OE	Student Exchange Programs	0	0	0	0	2

Each student has to choose any 2 programmes from the above list.

Through above activities students demonstrate their ability to apply learned skills and also students push boundaries and propose and explore much needed solutions across disciplines and cultures.

Overall Credits: 100

SPECIALISATIONS OFFERED

1. FINANCE **(FIN)**
2. HUMAN RESOURCE **(HR)**
3. MARKETING **(MKG)**
4. BANKING AND INSURANCE **(B&I)**
5. LOGISTICS **(LOG)**
6. INTERNATIONAL BUSINESS **(IB)**
7. HOSPITAL AND HEALTHCARE **(H&HC)**
8. BUSINESS ANALYTICS **(BA)**
9. TOURISM AND HOSPITALITY MANAGEMENT **(THM)**

LIST OF ELECTIVES WITH SPECIALISATION

PROFESSIONAL ELECTIVE – I (PE-I)							
SL. No.	Specialisation	Course Code	Course Name	L	T	P	C
1	FIN	P18FIMB001	Securities and Investment Management	3	0	0	3
2	HR	P18HRMB001	Managerial Behaviour and Effectiveness	3	0	0	3
3	MKG	P18MKMB001	Retail Management	3	0	0	3
4	B & I	P18BIMB001	Banking Fundamentals and Concepts	3	0	0	3
5	LOG	P18LOMB001	Logistics and Supply Chain Management	3	0	0	3
6	IB	P18IBMB001	International Industrial Buyer Behaviour	3	0	0	3
7	H&HC	P18HHMB001	Hospital & Health Care Policy & Planning	3	0	0	3
8	BA	P18BAMB001	Investment Analysis and Portfolio Management	3	0	0	3
9	THM	P18THMB001	Travel And Tourism Management	3	0	0	3

PROFESSIONAL ELECTIVE – II (PE-II)							
SL. No.	Specialisation	Course Code	Course Name	L	T	P	C
1	FIN	P18FIMB002	Credit Appraisal Management	3	0	0	3

2	HR	P18HRMB002	Industrial Relations and Labour Welfare	3	0	0	3
3	MKG	P18MKMB002	Consumer Behaviour	3	0	0	3
4	B &I	P18BIMB002	Bank Operations Management	3	0	0	3
5	LOG	P18LOMB002	Logistics Management	3	0	0	3
6	IB	P18IBMB002	Sales and Distribution Management	3	0	0	3
7	H&HC	P18HHMB002	Organization and Management of Hospital & Health System (including supporting services)	3	0	0	3
8	BA	P18BAMB002	Supply Chain Risk Analytics	3	0	0	3
9	THM	P18THMB002	Advanced Food Production Management	3	0	0	3

PROFESSIONAL ELECTIVE – III (PE-III)

SL. No.	Specialisation	Course Code	Course Name	L	T	P	C
1	FIN	P18FIMB003	Financial Framework and Systems	3	0	0	3
2	HR	P18HRMB003	Training and Development	3	0	0	3
3	MKG	P18MKMB003	Service Marketing	3	0	0	3
4	B &I	P18BIMB 003	Insurance Concepts and Systems	3	0	0	3
5	LOG	P18LOMB003	Warehousing and Inventory Management	3	0	0	3
6	IB	P18IBMB003	International Sales Promotion and Brand Management	3	0	0	3
7	H&HC	P18HHMB003	Epidemiology in Medical and Health Systems Management	3	0	0	3
8	BA	P18BAMB003	Pricing And Revenue Management	3	0	0	3

9	THM	P18THMB003	Food Service Facilities Planning and Management	3	0	0	3

PROFESSIONAL ELECTIVE – IV (PE-IV)							
SL. No.	Specialisation	Course Code	Course Name	L	T	P	C
1	FIN	P18FIMB004	Working Capital Management	3	0	0	3
2	HR	P18HRMB004	Strategic Human Resource Development	3	0	0	3
3	MKG	P18MKMB004	Social Media Marketing	3	0	0	3
4	B & I	P18BIMB 004	Insurance System in India	3	0	0	3
5	LOG	P18LOMB004	Export Trade and Documentation	3	0	0	3
6	IB	P18IBMB004	Global Leadership & Skills Development	3	0	0	3
7	H&HC	P18HHMB004	Quality Assurance and Management in Hospitals	3	0	0	3
8	BA	P18BAMB004	Social Network Analytics	3	0	0	3
9	THM	P18THMB004	Tourism Product	3	0	0	3

PROFESSIONAL ELECTIVE – V (PE-V)							
SL.No.	Specialisation	Course Code	Course Name	L	T	P	C
1	FIN	P18FIMB005	Micro–Finance: Perspectives and Operations	3	0	0	3
2	HR	P18HRMB005	Psychology for Managers	3	0	0	3
3	MKG	P18MKMB005	Advertising and Sales Promotion	3	0	0	3
4	B &I	P18BIMB 005	Commercial Bank Management	3	0	0	3
5	LOG	P18LOMB005	Retail marketing and CRM	3	0	0	3
6	IB	P18IBMB005	International Business Laws	3	0	0	3
7	H&HC	P18HHMB005	Risk Management & Health Insurance	3	0	0	3
8	BA	P18BAMB005	Business Process Analytics	3	0	0	3
9	THM	P18THMB005	International Tourism Management	3	0	0	3

PROFESSIONAL ELECTIVE – VI (PE-VI)							
SL.No.	Specialisation	Course Code	Course Name	L	T	P	C

1	FIN	P18FIMB006	Corporate Finance	3	0	0	3
2	HR	P18HRMB006	Organizational Development	3	0	0	3
3	MKG	P18MKMB006	Brand Management	3	0	0	3
4	B &I	P18BIMB 006	Retailing and CRM in Banking	3	0	0	3
5	LOG	P18LOMB006	International Marketing	3	0	0	3
6	IB	P18IBMB006	Cross cultural Management	3	0	0	3
7	H&HC	P18HHMB006	Legal framework for Hospitals	3	0	0	3
8	BA	P18BAMB006	Sports Analytics	3	0	0	3
9	THM	P18THMB006	Accommodation Operation	3	0	0	3

REGULATIONS 2018

SYLLABUS (R2018)

CHOICE BASED FLEXIBLE CREDIT SYSTEM

(Applicable to the batches admitted from July 2018)

M.B.A. – MASTER OF BUSINESS ADMINISTRATION

I – IV SEMESTERS

P18FCMB111		QUANTITATIVE TECHNIQUES	L	T	P	C
		Total Contact Hours: 45	4	0	0	4
		Course Designed by : Dr.S.FabiyolaKavitha				
COURSE OUTCOMES (COs)						
CO#	COGNITIVE ABILITIES	COURSE OUTCOMES				
CO1	Remembering	Recall the fundamental concepts of statistics and Importance of statistics in business				
CO2	Understanding	Translate a problem into a simple mathematical model to allow easier understanding and to aid problem solving using statistical tools				
CO3	Applying	Construct and make use of various statistical hypothesis tests				
CO4	Analyzing	Analyse the results by carrying out a sample survey, extrapolate from data the important trends in order to forecast as accurately as possible				
CO5	Evaluating	Evaluatedifferent Measures of dispersion-Range, Mean deviation, standard deviation				
CO6	Creating	Create Diagrammatic and graphical representation of data to express maximization of profit or contribution, minimization of cost/time.				

Mapping of Course Outcomes with Program Outcomes (S/M/L indicates strength of correlation) S-Strong, M-Medium, L-Low											
1	COs/ POs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
2	CO1				M				S		
	CO2		M		M				S		
	CO3	M			M				S		
	CO4	M	M				M	M	S		M
	CO5	M							S		M
	CO6	M	M		M	M			S		
3	Cate gory		Fundamental Core (FC)								
4	Appr oval										

QUANTITATIVE TECHNIQUES

UNIT I: INTRODUCTION OF STATISTICS

12

Introduction – Importance of statistics in business- Classification and tabulation of statistical data
- Diagrammatic and graphical representation of data.

UNIT II: MEASURES OF CENTRAL TENDENCY & MEASURES OF DISPERSION

12

Measures of central tendency- Mean, Median, Mode – Measures of dispersion-Range, Mean deviation, standard deviation. Estimation- Types of estimation

UNIT III: TESTING OF HYPOTHESIS-I

12

Sample size determination – Type I and II error – Procedure for testing of hypothesis- Sampling methods- hypothesis testing for large sample and small sample (using Z-test, 'T' test) -F-test.

UNIT IV: TESTING OF HYPOTHESIS-II 12

Non- parametric Tests - types – Chi- Square test- Spearman's Rank correlation test, Kruskal Wallis H Test, Sign test, Mann Whitney test.

UNIT V: CORRELATION AND REGRESSION 12

Concepts of Correlation- Types of Correlation- Karl Pearson's coefficient of Correlation, Simple Regression- Regression Coefficients-Method of Least squares.

TOTAL: 60 PERIODS

References:

1. Hamdey A.Taha, Introduction to operations research, Prentice Hall India, Tenth edition, 2017
2. Fredericks, Hiller, Gerald J.Lieberman Bodhibrata Nag Prectam basu, Operations research 9e, Mcgraw hill education, 9th edition, 2017.
3. Pannerselvam . R, Operations research, Prentice Hall of india
4. J.K.Sharma, Operations research Theory and applications, 2012
5. Pradeep prabakarpai, Operations research – Principles and practice, oxford higher education, 2012
6. Gupta P.K.Hira D.S Problem in operations Research, S.Chand and co.
7. Prof.V.Sundaresan, Prof. Ganapthisubramanian, Prof.Ganesan, Resource Management Techiques, A.R. Publications, 2016

P18FCMB112	ECONOMIC FOUNDATION OF BUSINESS ENVIRONMENT OBJECTIVES				L	T	P	C
	Total Contact Hours: 45				3	0	0	3
	Course Designed by : Ms.Magdalene Peter							
COURSE OUTCOMES (COs)								
CO#	COGNITIVE ABILITIES	COURSE OUTCOMES						
CO1	Remembering	Recall the Micro & Macro Economic terms, concepts and theories.						
CO2	Understanding	Classify and be able to explain the role and importance of economic policies, trade policies and trade multiplier						
CO3	Applying	Apply economic theories and concepts to contemporary issues to know the growth of our Indian Economy						
CO4	Analyzing	Compare and measure the performance of Indian economy in its external and internal environment by analysis of demand and supply of Money.						
CO5	Evaluating	Evaluate the role of monetary, fiscal policies and performance of Indian economy						
CO6	Creating	Create the strategy and produce desired outcomes to curb unemployment and predict the impact of macroeconomic instruments on the performance of Indian Economy						

Mapping of Course Outcomes with Program Outcomes											
(S/M/L indicates strength of correlation)											
S-Strong, M-Medium, L-Low											
1	COs/ POs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
2	CO1	S							S		
	CO2		M		S					S	

	CO3	S							S	S	
	CO4				S	M				S	
	CO5	S				M			S		
	CO6	S			S	M			S		
3	Cate gory		Fundamental Core (FC)								
4	Appr oval										

UNIT I NATURE AND SCOPE OF MACRO ECONOMIC ISSUES 9

Objectives and Instruments of Macro Economics – Growth, employment, inflation, balance of payment exchange rate – Circular flow of income – National income concepts – Measurement of national income – The role of economic planning – Indian economic planning.

UNIT II ANALYSIS OF NATIONAL INCOME, EMPLOYMENT AND INFLATION 9

Keynesian Perspective multiplier – Accelerator – Business Cycle – The role of fiscal policy – Indian fiscal policy – Indian fiscal policy and Experience.

UNIT III ANALYSIS OF MONETARY SECTOR 9

Demand and supply of money – Equilibrium of money market – The role of monetary policy – Indian Perspectives.

UNIT IV INTEGRATION OF COMMODITY AND MONEY MARKET 9

Analysis of Inflation and unemployment – The role of economic policies – Indian experience.

UNIT V ANALYSIS OF EXTERNAL SECTOR 9

International trade – Trade multiplier – The role of trade policy – Analysis of performance of Indian economy in external sector.

TOTAL: 45 PERIODS

References:

1. Craig H. Petersen, W. Chris Lewis and Sudhir K. Jain, Managerial Economics, Pearson Education, 9th Ed., 2017.

2. W. Bruce Allen, Neil A. Doherty, Keith Weigelt and Edwin Masfield. Managerial Economics: Theory, Applications, and Cases. W.W. Norton & Company, Ltd., London, 7th edition, 2012.
3. 2. Michael R. Baye. Managerial Economics and Business Strategy. McGraw–Hill/Irwin, New York, USA, International edition, 5th edition, 2006.
4. Managerial Economics: by Varshney & Maheshwari Pub, Sultan Chand.
5. Brigham and Pappas-Managerial Economics.
6. Mark Hirschey and Bentzen, Managerial Economics. Cengage Learning, 2017.

P18FCMB113 PRINCIPLES OF MANAGEMENT

P18FCMB113		PRINCIPLES OF MANAGEMENT	L	T	P	C
		Total Contact Hours: 45	3	0	0	3
		Course Designed by : Dr.A.Geetha				
COURSE OUTCOMES (COs)						
CO#	COGNITIVE ABILITIES	COURSE OUTCOMES				
CO1	Remembering	Recall the management concept, principles, and Hendry Fayol FM Taylor and Hendry Fayol Contribution to the management, management functions and thirukural concept in management				
CO2	Understanding	Interpreting the management science or art, difference between administration and management, management by objectives, centralization and decentralization, training and development and techniques for controlling, nature and purpose of group and business ethics in tirukural				
CO3	Applying	Identifying the natures of management, purpose of planning, organizing and controlling, selection and recruitment, strategies to coordination and goal setting in thirukural				
CO4	Analyzing	Examine the roles of managers,, strategic planning, delegation of authority, orientation, fundamentals of directing, coordination needs and adapting changing environment in thirukural				
CO5	Evaluate	Interpreting the evaluation of management thought, planning process, organizational structure, span of control ,organizational control techniques and				

		leadership in thirukural
CO6	Creating	Developing the organization and environment factors, decision making process, formation of groups and managing groups and communication principles from Thirukural

Mapping of Course Outcomes with Program Outcomes (S/M/L indicates strength of correlation) S-Strong, M-Medium, L-Low											
	COs /Pos	PO1	PO2	PO3	PO4	PO5	PO 6	PO 7	PO 8	PO9	PO 10
1	CO1			L			M	M			
2	CO2		M			S			L		
3	CO3		M		S		M				S
4	CO4				S	S				M	
5	CO5	M				S		M			S
6	CO6	M			S				L		
3	Cate gory		Professional Core (PC)								
4	App rova l										

UNIT I NATURE OF MANAGEMENT

9

The Nature of Management –Management: Science or Art – Difference between administration and management - Evolution of management thought - Roles of managers– F.W.Taylor and Henri Fayol contribution to the management- Organization and the environmental factors.

UNIT II PLANNING**9**

Nature and purpose of planning - Planning process – Objectives - Management by objective (MBO)- Strategic Planning - Decision Making - Decision Making Process.

UNIT III ORGANIZING**9**

Nature and purpose of organizing - Organization structure - Span of control - Centralization and Decentralization – Delegation of authority - Staffing - Selection and Recruitment - Orientation - Training and development.

UNIT IV DIRECTING & CONTROLLING**9**

Fundamentals of Directing – Importance & Techniques-Controlling - nature of control – Organizational control techniques Process of controlling - Types of control- Coordination needs, importance, types & strategies to co-ordination - nature and the purpose of groups- formation of groups-Managing groups.

UNIT V MANAGEMENT CONCEPTS IN THIRUKKURAL**9**

Management Concepts in Thirukkural: Goal setting in verse 596-Business Ethics in verse 113- Thirukkural: Adapting to changing Environment in verse 474,426 and verse 140- - Thirukkural: Communication Principles in Decision making process – verse 948, 472, 467,663- Thirukkural: Leadership in verse 436,770 and 994.

TOTAL: 45 PERIODS**References:**

1. Essentials of Management - An International, Innovation and Leadership Perspective, Harold Koontz, Heinz Weihrich and Mark V Cannice, 2020
2. Stephen P. Robbins and Mary Coulter, 'Management', Prentice Hall of India, 2016
3. Principles of Management, Tripathi, 2018.
4. Principles and Practices of Management, L.S Prasad, 2019
5. Charles W L Hill, Steven L McShane, 'Principles of Management', Mcgraw Hill Education, Special Indian Edition.
6. Harold Koontz, Heinz Weihrich and Mark V Cannice, 'Management -A global perspective,2012

7. Griffin, Management: Principle & Applications, Cengage Learning
8. P.Subba Rao, Principles of Management, Himalaya Publishing, 2014
9. Hellriegel, Slocum & Jackson, ' Management -A Competency Based Approach', Thomson South Western, 10th edition, 2007.

P18FCMB114		ACCOUNTING FOR MANAGEMENT	L	T	P	C
		Total Contact Hours: 45	3	0	0	3
		Course Designed by : Dr J Pavithra				
COURSE OUTCOMES (COs)						
CO1	Remember	Define the basics accounting through the entries of journal, ledger and trial balance for the understanding of the financial accounting through trading profit and loss and balance sheet and cost sheet, inventory valuation and financial statements				
CO2	Understand	Interpret the various accounting tools for interpreting the branches of accounting through preparation of inventory valuation techniques such as FIFO and LIFO and understand the ideologies of cost volume profit analysis				
CO3	Apply	apply the financial statement analysis and ratio analysis for the current trend on the management accounting				
CO4	Analyze	analyze on the fund flow statement for providing better understanding of the current financial position of the organization				
CO5	Analyze	Inspect the various books of accounts through break even point to highlight on the profit or loss position of the firm				
CO6	Evaluate	Evaluate the cash position of the organization through cash flow statement the current status of the firm				

Mapping of Course Outcomes with Program Outcomes (S/M/L indicates strength of correlation) S-Strong, M-Medium, L-Low											
	COs /Pos	PO1	PO2	PO3	PO4	PO5	PO 6	PO 7	PO 8	PO9	PO 10
1	CO1	M				L					S
2	CO2		L						S		
3	CO3	M				L			S		
4	CO4				S						S
5	CO5						M		S		
6	CO6	M			S			L			S
3	Cate gory		Professional Core (PC)								
4	App rova l										

UNIT I - FINANCIAL ACCOUNTING

9

Accounting – Meaning – Definition – Objectives – Advantages & Disadvantages –Functions - Accounting concepts & Conventions – Golden rules of Accounting – Journal, Ledger, Trial Balance – Preparation of Trading and Profit & Loss – Balance sheet – Problem in Final Accounts.

UNIT II - COST ACCOUNTING

9

Cost Accounting – Meaning – definition - Cost Concepts – Classification – Advantages & disadvantages of cost account – Basic cost concepts - Preparation of Cost Sheet – Inventory Valuation – Meaning & Objectives – Inventory System –Methods of Valuation of Inventory

UNIT III - MANAGEMENT ACCOUNTING

9

Management Accounting – meaning – Definition Advantage & disadvantages – Financial Statement Analysis – Comparative statement – Common size balance Sheet – Trend Analysis.

UNIT IV MANAGAEMENT ACCOUNTING

9

Accounting Ratios – Classification of ratios – Advantages and disadvantages – Computations of ratios.- Cost Volume Profit Analysis – Contribution – PV Ratio – Margin of Safety – Break Even Point – Break Even Chart

UNIT V FUND FLOW AND CASH FLOW STATEMENT

9

Fund flow statement – Need, uses – Fund flow statement format – Problem cash Flow Statement – Meaning – Preparing of cash flow statement – cash flow and fund flow statement – cash flow format – Problem in cash flow statement

TOTAL: 45 PERIODS

References:

1. Financial accounting for managers by Dr. Narayana Swamy, Indian institute of Management, Bangalore, Tata–McGrawHill,2018 edition
2. Financial Accounting Essentials You Always Wanted To Know: 4th Edition, Kalpesh Ashar, 2019
3. Accounting and Finance for Non-finance Managers, Jai Kumar Batra, 2018
4. Gupta R.S.: Advanced Accountancy, vol. 1 & 2, 2015
5. The Essentials of Finance and Accounting for Nonfinancial Managers (3rd Edition), Dr. Edward R. Field, 2019
6. Dr. D.C. Sharma & K.G. Gupta: Management accounting., 2019

P18FCMB115	ORGANIZATIONAL BEHAVIOUR		L	T	P	C
	Total Contact Hours: 45		3	0	0	3
	Course Designed by : Ms.A.Jhoncy					
COURSE OUTCOMES (COs)						
Cos	COGNITIVE ABILITIES	COURSE OUTCOMES				

CO1	Remembering	Recall the concepts of Organizational Behavior to facilitate comprehension of complex Human Behavior
CO2	Understanding	Illustrate the importance of Individual contribution to the Organization and factors affecting Behavior and Performance
CO3	Applying	Apply the key theoretical aspects and practical application of Leadership Style
CO4	Analyzing	Analyze the complexities associated with management of Group Behavior in the Organization to aid in the fulfillment of Individual and Organizational Objectives
CO5	Evaluating	Evaluate the Organizational factors that contribute to success within the Business sectors
CO6	Creating	Discuss the implications of Organizational Process as an HR imperative

Mapping of Course Outcomes with Program Outcomes (S/M/L indicates strength of correlation) S-Strong, M-Medium, L-Low											
1	COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
2	CO1			S			S		S		
	CO2			S			S	S	S		S
	CO3	S	S	S		S	S	S	S	S	S
	CO4			S	M	S	S	S	S		
	CO5	S	S		M	S			S	S	

	CO6			S			S	S	S		
3	Category	Fundamental Core (FC)									
4	Approval										

UNIT – I: MANAGING ORGANIZATIONAL BEHAVIOUR

9

Definition need and Importance of Organizational Behaviour – Nature and Scope of Organizational Behaviour - Role of managers – Contributing disciplines to Organizational Behaviour - Frame work of Organizational Behaviour.

UNIT – II: INDIVIDUAL PROCESS

9

Personality – types – Factors influencing personality –Theories of Personality – Perception-Importance - Types of Perception — Factors influencing Perception - Interpersonal perception-Impression Management – Learning – Types of learners –The learning process – Learning theories – attitudes and values – Motivation – Theories of motivation - Effects on work behavior - Important types of work stress.

UNIT – III: GROUP DYNAMICS AND GROUP BEHAVIOUR

9

Group Dynamics - How Groups Work - Groups in Organizations - Stages of Group, Foundations of Group Performance — Group Behaviour – Group Communication – Team building - Interpersonal relations – Communication – Control , Group decision making – Merits and Demerits of Group decision making.

UNIT – IV: LEADERSHIP AND POWER

9

Meaning – Importance – Leadership styles – Theories – Leaders Vs Managers – Sources of power – Power centers – Power and Politics

UNIT – V: ORGANIZATIONAL PROCESS

9

Organizational structure and design – Organizational culture and climate – Factors affecting organizational climate, Organizational change – Importance – Resistance to change – Managing change. Organizational development – Characteristics – objectives, Organizational Conflict – Causes – Types of Conflicts.

TOTAL: 45 PERIODS

References:

1. Stephen P. Robins, Organisational Behavior, PHI Learning / Pearson Education, Edition 18, 2018 (Global edition)
2. Organisational Behavior, Aswathappa, Himalaya Publishing House, 2018
3. Fred Luthans, Organisational Behavior, McGraw Hill, 12th Edition, 2013
4. Organisational Behaviour in the Workplace, Laurie Mullins, 2019
5. Mc Shane & Von Glinov, Organisational Behaviour, 4th Edition, Tata Mc Graw Hill, 2007.
6. Nelson, Quick, Khandelwal. ORGB – An innovative approach to learning and teaching. Cengage, 2nd edition. 2012
7. Ivancevich, Konopaske & Maheson, Organisational Behaviour & Management, 7th edition, Tata McGraw Hill, 2008.
8. Udai Pareek, Understanding Organisational Behaviour, 3rd Edition, Oxford Higher Education, 2011.
9. Jerald Greenberg, Behaviour in Organization, PHI Learning. 10th edition. 2011

P18AEMB116 BUSINESS COMMUNICATION

P18AEMB116	BUSINESS COMMUNICATION				L	T	P	C
	Total Contact Hours: 45				3	0	0	3
	Course Designed by : Ms.Magdalene Peter							
COURSE OUTCOMES (COs)								
CO#	COGNITIVE ABILITIES	COURSE OUTCOMES						

UNIT I**9**

Nature and Process of Communication: Definition, classification, purpose and process. Barriers and principles to effective communication, conditions for successful communication, importance of communication in management, communication structure in organization.

UNIT II**9**

Listening: listening process, types of listening, essentials of good listening- Nonverbal communication: classification of non-verbal communication- body language, gestures, handshakes, gazes, smiles, hand movements, styles of walking, voice modulations, guidelines for developing nonverbal communication skills. Presentation skills- elements of a presentation, designing your presentation.

UNIT III**9**

Negotiation skills: need to negotiate, factors affecting negotiation, stages of the negotiation process, negotiation strategies- Communication skills for Interviews and Group Discussions, Business etiquettes: telephone etiquette.-

UNIT IV**9**

Principles of effective writing, Layout of a letter - Letter Formats - Application for appointment - Reference letters - Appointment letters - Orders - Enquiry letters - Offers and Quotations - bank correspondence - correspondence with Government Department and public bodies.

UNIT V**9**

Business letter format, style of letter arrangement, types of letters, developing resume. Report writing, circulars, notices, memos, agenda and minutes, Modern Forms of Communication: Fax - e-mail – Video Conferencing - Internet – Weblinks and their use in Business- Current trends and technologies in business communication.

TOTAL: 45 PERIODS

Reference Books

1. Business Communication, C.R. Reddy, Wiley, 2019
2. Fundamentals of Business Communication, Kumkum Bhardwaj, Wiley, 2020
3. Ludlow, R. & Panton, F. The Essence of Effective Communications, Prentice Hall of India Pvt. Ltd., New Delhi.

4	Approval		

UNIT I ENTREPRENEUR. 9

Concept of Entrepreneur-characteristics of an Entrepreneur- Distinction between and Entrepreneur and manager-functions of an Entrepreneur - types of entrepreneur

UNIT II WOMEN ENTREPRENEURSHIP 9

Concept of women entrepreneurs-functions of women entrepreneurs-growth of women entrepreneurship, problems of women entrepreneurs

UNIT III ENTREPRENEURIAL COMPETENCIES AND FACTORS 9

Entrepreneurial Competencies and Factors - Meaning of Entrepreneurial competencies or trait-major entrepreneurial competencies-Developing Competencies- Economic factors-Non economic factors- government actions

UNIT IV ENTREPRENEURSHIP DEVELOPMENT PROGRAMMES 9

Need for EDP-objectives of EDP course contents and curriculum of EDP, Phases of EDP-Evaluation of EDP

UNIT V ENTREPRENEURSHIP AND SMALL SCALE ENTERPRISES 9

Opportunities for an Entrepreneurial career, role of small enterprises in economic development, problems of small scale enterprises . Monitoring and Evaluation of Business - Preventing Sickness and Rehabilitation of Business- Effective Management of small Business.

TOTAL: 45 PERIODS

References:

1. Entrepreneurship, (Dr.) Abha Mathur, 2019
2. Entrepreneurship | 11th Edition, Robert D. Hisrich, Michael P. Peters, et al., 2020
3. Rajshankar, Entrepreneurship Theory and practice, Vijay Nicole Imprints Private limited, 2015.
4. Jayshree Suresh, Entrepreneurial Development, Margam Publications, 2015
5. The Execution Factor: The One Skill That Drives Success by Kim Perell, 2018

6. Bring Yourself: How to Harness the Power of Connection to Negotiate Fearlessly, Mori Taheripour, 2020
7. Startup Accelerators: A Field Guide, Richard Busulwa, Naomi Birdthistle, Steve Dunn, 2020

P18LCMB118 SOFT SKILLS – I

P18LCMB118		SOFT SKILLS - I	L	T	P	C
		Total Contact Hours: 27	0	0	4	2
		Course Designed by : Ms.Magdalene Peter				
COURSE OUTCOMES (COs)						
CO#	COGNITIVE ABILITY	COURSE OUTCOMES				
CO1	Remembering	Show how to relate with self, better to set personal and professional goals				
CO2	Understanding	Demonstrate the right attitude for personal and professional life				
CO3	Applying	Develop a professional presence though right grooming and etiquette				
CO4	Applying	Build self-confidence, develop critical thinking skills and communicate effectively				
CO5	Evaluating	Assess ideas, thoughts and concepts effectively in individual and group settings				
CO6	Creating	Develop effective employability skills				

		Mapping of Course Outcomes (S/M/L indicates strength of correlation) S-Strong, M-Medium, L-Low									
1	COs/ POs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
2	CO1	S	S	S			S	S	S		
	CO2			S			S	S			
	CO3			S			S				
	CO4	S			L			S	S		
	CO5			S					S		
	CO6			S				S	S		L
3	Cate gory		Professional Core (PC)								
4	Appr oval										

UNIT I - SELF ANALYSIS

SWOT Analysis, Who am I, Attributes, Importance of Self Confidence, Self Esteem.

UNIT II - CREATIVITY

Out of box thinking, Lateral Thinking.

UNIT III - ATTITUDE

Factors influencing Attitude, Challenges and lessons from Attitude, Etiquette.

UNIT IV - MOTIVATION

Factors of motivation, Self talk, Intrinsic & Extrinsic Motivators.

UNIT V - GOAL SETTING

Wish List, SMART Goals, Blue print for success, Short Term, Long Term, Life Time Goals.

Time Management. Value of time, Diagnosing Time Management, Weekly Planner To do list, Prioritizing work. Extempore

Total No. of Periods: 27

TEXT BOOK:

SOFT SKILLS, 2015, Career Development Centre, Green Pearl Publications .

REFERENCES

1. 10 Skills for Effective Business Communication: Practical Strategies, Jessica Higgins, 2018
2. Presence: Bringing Your Boldest Self to Your Biggest Challenges, Amy Cuddy, 2018
3. The Leader Habit: Master the Skills You Need to Lead, Martin Lanik, 2018

P18LCMB119 INTRODUCTION TO COMPUTERS

P18LCMB119	INTRODUCTION TO COMPUTER LAB			L	T	P	C
	Total Contact Hours: 12			0	0	4	2
	Course Designed by :Mr Gowtham Aashirwad Kumar						
COURSE OUTCOMES (COs)							
CO#	COGNITIVE ABILITIES	COURSE OUTCOMES					
CO1	Remembering	Recall fundamental concepts of word processing, electronic spreadsheets, and presentation software.					
CO2	Understanding	Explain the usage of computers and why computers are essential components in business and society.					
CO3	Applying	Identify categories of programs, system software and applications. Organize and work with files and folders.					
CO4	Analyzing	Simplify common business problems using appropriate Computer applications and systems					
CO5	Creating	Build SQL commands to create tables and indexes, insert/update/delete data, and query data in a relational DBMS.					

CO6	Creating	Formulate a worksheet , Format numbers in a worksheet , Create an Excel table , Filter data by using an AutoFilter , Sort data by using an AutoFilter

Mapping of Course Outcomes with Program Outcomes (S/M/L indicates strength of correlation) S-Strong, M-Medium, L-Low											
1	COs/ POs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
2	CO1							M	S		S
	CO2		M		S				S	M	
	CO3			M	S				S		S
	CO4	M			S				S		S
	CO5				S				S		
	CO6								S		S
3	Cate gory		Lab Core (LC)								
4	Appr oval										

UNIT 1:- MS OFFICE 9

MS—Excel, MS- Power Point, MS-Word, MS Access

UNIT II: - SOFTWARE PACKAGES 9

Accounting Packages, Statistical Packages, Operations Research Packages

UNIT III: - DATABASE MANAGEMENT PACKAGE 9

SQL Server or Oracle, front end tool Visual Basic or Developer 2000

Total No. of Periods: 27

P18PCMB121 FINANCIAL MANAGEMENT

P18PCMB121	FINANCIAL MANAGEMENT		L	T	P	C
	Total Contact Hours: 45		3	0	0	3
	Course Designed by : Dr.A.Geetha					
COURSE OUTCOMES (COs)						
CO1	Remember	List the basic concepts of financial management by providing the objectives of financial management through profit maximization and wealth maximization and thereby helping for decision making				
CO2	understand	Interpret the time value of money for purpose of investment and the theories of capital structure and practical approach of capital sturcture and allocation of cost of debt, cost of equity and cost of preference				
CO3	Apply	Apply on the capital budgeting techniques through pay back period, accounting rate of return and evaluate the discounted cash flows and formulate the dividend policies for the same				
CO4	Apply	Apply the key financial management decisions for choosing appropriate investment channels and financing patterns and dividend policies for the growth of the business				
CO5	Analyze	Analyze the effective tools of financial management so as to provide effective solutions based on Net income approach, net operating income approach and MM Approach				
CO6	Evaluate	Appraise on the cost of debt and cost of equity for selecting the appropriate capital structure and formulate the dividend policy through Walter Model, Gordon Model and MM Model				

	COs /Pos	PO1	PO2	PO3	PO4	PO5	PO 6	PO 7	PO 8	PO9	PO 10
1	CO1						S		S		
2	CO2					S	S				
3	CO3						S		S		
4	CO4	S				S				S	L

5	CO5	S		L			S		S		
6	CO6					S				S	
3	Cate gory		Professional Core (PC)								
4	App rova l										

UNIT – I: NATURE OF FINANCIAL MANAGEMENT 9

Finance Management – Nature Scope of Finance – Profit Maximization versus Wealth Maximization – Financial goals and Firms mission and objectives – Financial decisions-

UNIT – II: CAPITAL STRUCTURE 9

Time Value of Money - Capital structure –Theories and Approaches-Meaning – Net income – Net operating income- MM Approach. - Problems

UNIT – III: FINANCING DECISIONS 9

Capital Budgeting- Significance-Traditional Techniques- Pay Back-ARR- Discounted Cash Flow Techniques- NPV-PI-IRR-Discounted Pay Back Techniques

UNIT – IV: INVESTMENT DECISIONS 9

Cost of capital various methods- Cost of Debt – Cost of Equity – Cost of Debt – Cost of Retained Earnings- Calculation of WACC

UNIT – V: DIVIDEND DECISIONS 9

Types of Dividend – Regulations regarding Dividend-Relevance and Irrelevance Models-Walter’s model – Gordon’s model – MM Hypothesis – Dividend policy – Practical considerations

TOTAL: 45 PERIODS

References:

1. Fundamentals of Financial Management (New edition), Prasanna Chandra, 2020
2. Financial Management by R.P Rustagi, 2020
3. Khan MY, Jain PK, BASIC FINANCIAL MANAGEMENT, Tata McGraw Hill, Delhi., 2018

4. Financial Management by I.M Pandey, 2016
5. Chandra Bose D, FUNDAMENTALS OF FINANCIAL MANAGEMENT, PHI, Delhi., 2009
6. Preeti Singh, FUNDAMENTALS OF FINANCIAL MANAGEMENT, Ane. 2011
7. James C. Vanhorne –Fundamentals of Financial Management– PHI Learning, 11th Edition
8. Brigham, Ehrhardt, Financial Management Theory and Practice, 12th edition, Cengage Learning
9. Srivatsava, Mishra, Financial Management, Oxford University Press

P18PCMB122 HUMAN RESOURCE MANAGEMENT

P18PCMB122	HUMAN RESOURCE MANAGEMENT		L	T	P	C
	Total Contact Hours: 45		3	0	0	3
	Course Designed by : Dr.S.Praveen Kumar					
COURSE OUTCOMES (COs)						
CO#	COGNITIVE ABILITIES	COURSE OUTCOMES				
CO1	Remembering	Recall the role of Human Resource Function in an Organization				
CO2	Understanding	Infer the Purposes, types, Process and Evaluation Technique related to HR and to illustrate the emerging trends and practices in HRM				
CO3	Applying	Apply the knowledge of practical application of Performance Appraisal and employee development as it impacts organizational strategy and competitive advantage.				
CO4	Analyzing	Show evidence of the ability to analyze, manage and solve problem to deal with the challenges and complexities of the Entry to Exit of an employee and to outline the compensation strategies of an organization				
CO5	Evaluating	Evaluate human resources management as it supports the success of the organization including the effective development of human capital as an agent for organizational change.				
CO6	Creating	Develop ability to identify and apply the knowledge of HRM precepts practically in real corporate situations and to interpret the sample job descriptions and job specifications for contemporary entry level roles in real				

		world organizations.

Mapping of Course Outcomes with Program Outcomes (S/M/L indicates strength of correlation) S-Strong, M-Medium, L-Low											
1	COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
2	CO1	S				S	L		S		
	CO2	S	S		S	S		S	S	M	
	CO3							S	S		M
	CO4	S	S		S			S	S		
	CO5	S	S		S	S		S	S		
	CO6		S		S	S		S	S		
3	Category	Fundamental Core (FC)									
4	Approval										

UNIT – I: INTRODUCTION OF HUMAN RESOURCE MANAGEMENT 9

Definition – Importance of Human Resources – Objectives of Human Resources Management – Qualities of Personnel Managers- Evolution and growth of Personnel Management in India. Human Resources Policies: Need, type and Scope – Human Resource Planning: Long and short term Planning, Job analysis – Skills Inventory – Job Description and Job Specification.

UNIT – II: RECRUITMENT AND SELECTION 9

Purposes, types, Process and Evaluation Technique - methods of recruitment and selection – Attracting and Acquiring Talent – Retention and Retraining - Reduction of recruitment costs – Functions of Human Resources Management from Procurement to Separation – Placement, Induction, Transfers, Promotions Disciplinary actions, Termination of services – Resignation, Dismissal, Retrenchment and Voluntary Retirement Schemes, Exit Interviews, Prevention of employee turnover.

UNIT – III: PERFORMANCE EVALUATION 9

Ranking, rating scales, critical incident method – MBO as a method of appraisal, job evaluation, criteria for promotions and job enrichment- Wages and salary Administration – Meaning, Calculation of Wages, Salary, and Perquisites – Compensation packages – Rewards and Incentives – Financial and non financial Incentives.

UNIT – IV: EMPLOYEE’S SAFETY AND HEALTH

9

Employee’s Safety and Health – Preventive approaches including health education, Audit of safety programs and safety training –Work - stress – Causes and Consequences – Stress – Management Programs –Personnel Office Management – Functions of the Office, correspondence, O & M in Personnel department, Maintenance of Personnel records- Importance of Safety – Role of Safety Department.

UNIT – V: TIME MANAGEMENT

9

Introduction to Time Management – Setting Goals and Priorities - Importance of Time Factor- Time waste – Prioritizing work Scheduling – Functions of the Time office – Flexible work arrangement

TOTAL: 45 PERIODS

References:

1. Future of Human Resource Management: Case Studies with Strategic Approach, Raman Preet, 2019
2. Human Resource Management, Text & Cases, K. Aswathappa, 2017
3. Dessler Human Resource Management, Pearson Education Limited, 14th Edition, 2015.
4. Decenzo and Robbins, Fundamentals of Human Resource Management, Wiley, 11th Edition, 2013.
5. Luis R.Gomez-Mejia, David B.Balkin, Robert L Cardy. Managing Human Resource. PHI Learning. 2012
6. Bernadin , Human Resource Management ,Tata Mcgraw Hill ,8th edition 2012. Wayne Cascio, Managing Human Resource, McGraw Hill, 2007.
7. Ivancevich, Human Resource Management, McGraw Hill 2012.
8. Uday Kumar Halder, Juthika Sarkar. Human Resource management. Oxford. 2012.

P18PCMB123 RESEARCH METHODOLOGY

P18PCMB123	RESEARCH METHODOLOGY		L	T	P	C
	Total Contact Hours: 45		3	0	0	3
	Course Designed by : Mr.Ravi Mohan					
COURSE OUTCOMES (Cos)						
CO#	COGNITIVE ABILITIES	COURSE OUTCOMES				
CO1	Remembering	Recall the fundamental concepts of research process.				
CO2	Understanding	demonstrate the relevant scaling & measurement techniques and the use of appropriate Sampling methods				
CO3	Applying	Construct the Design and variety of data collection, instruments for contemporary business research				
CO4	Analyzing	Examine and analyze the different techniques, editing, sampling methods and sample size.				
CO5	Evaluating	Evaluate the different types of testable hypotheses and interpret the statistical test outcomes of the research.				
CO6	Creating	Formulate alternative research designs for a real-life business research problem and discuss the pros and cons of each design.				

Mapping of Course Outcomes with Program Outcomes (S/M/L indicates strength of correlation) S-Strong, M-Medium, L-Low											
1	COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
2	CO1		S			S					
	CO2		S		S	S		M	L		
	CO3	S			S	S					

	CO4	S			S				L	L	
	CO5	S						M	L		L
	CO6		S								L
3	Category		Fundamental Core (FC)								
4	Approval										

UNIT – I: INTRODUCTION

12

Business Research – Definition and Significance – the research process – Types of Research – Exploratory and causal Research – Theoretical and empirical Research – Cross –Sectional and time – series Research – Research questions / Problems – Research objectives – Research hypotheses – characteristics – Research in an evolutionary perspective – the role of theory in research.

UNIT –II RESEARCH DESIGN AND MEASUREMENT

12

Research design – Definition – types of research design – exploratory and causal research design – Descriptive and experimental design – different types of experimental design – Validity of findings – internal and external validity – Variables in Research – Measurement and scaling – Different scales – Construction of instrument – Validity and Reliability of instrument.

UNIT – III DATA COLLECTION

12

Types of data – Primary Vs Secondary data – Methods of primary data collection – Survey Vs Observation – Experiments – Construction of questionnaire and instrument – Validation of questionnaire – Sampling plan – Sample size – determinants optimal sample size – sampling techniques – Probability Vs Non–probability sampling methods.

UNIT – IV: DATA PREPARATION AND ANALYSIS

12

Data Preparation – editing – Coding –Data entry – Validity of data – Qualitative Vs Quantitative data analyses-Hypothesis testing - statistical testing procedure. Tests of significance: Types and selection of tests. Measures of Parametric and Non-parametric tests. – Application of statistical software for data analysis.

UNIT – V: RESEARCH REPORT

12

Structure and Components of Research Report, Types of Report, Good Research Report, Pictures and Graphs.

TOTAL:60 PERIODS

REFERENCES:

1. Research Design: Qualitative, Quantitative, and Mixed Methods, John W. Creswell and J. David Creswell, 2018
2. The Craft of Research Wayne C. Booth, Gregory G. Colomb, and Joseph M. Williams, 2016
3. Malhotra, Dash —Marketing Research: An applied orientation|| 7th Ed. Pearson Ltd, 2015.
4. 2. Brown Suter Churchill, Marketing Research , 8th edition, Cengage Learning India Pvt ltd,2015
5. Research Methodology: A Step-by-Step Guide for Beginners,Dr. Ranjit Kumar, 2011

P18PCMB124 MARKETING MANAGEMENT

P18PCMB124	MARKETING MANAGEMENT		L	T	P	C
			3	0	0	3
	Total Contact Hours: 45					
	Course Designed by : Ms.R.Velanganni					
COURSE OUTCOMES (COs)						
CO #	COGNITIVE ABILITIES	COURSE OUTCOMES				
CO1	Remembering	Recall and comprehend the key marketing concepts and skills.				
CO2	Understanding	Explain the dynamic nature of the environment in which marketing decisions are taken, Compare and contrast various approaches to pricing strategy.				

UNIT I: OVERVIEW OF MARKETING

9

Define Marketing – Scope of Marketing – Role of Marketing Management – Marketing Process – Functions of Product life cycle Marketing – Concepts of Marketing - Benefits –Marketing Mix- Core Marketing concept- selling vs. Marketing..

UNIT II: MARKETING MIX AND SEGMENTATION

9

Buyer Behavior, Market Segmentation and Targeting, Positioning and differentiation strategies, new product development, Product Mix and Product line decisions, Branding and Packaging, Price setting - objectives, factors and methods.

UNIT III: MARKETING COMMUNICATION MIX

9

Integrated marketing communication process and Mix: Advertising, Sales promotion and Public relation decisions. Direct marketing - Growth, Benefits and Channels; Telemarketing; Sales force objectives, structure, size and compensation.

UNIT IV:MARKETING CHANNEL

9

Marketing channel system - Functions and flows; Channel design, Channel management- Tapping into global Market -Global Target market selection.

UNIT V: MARKETING RESEARCH

9

Importance-scope-types-merits and demerits of marketing research- Marketing Research process- Marketing research in India- Role of forecasting- Sales forecasting- Measures of Market demand through questionnaire.

TOTAL: 45 PERIODS

REFERENCES

1. Rajan Saxena, Marketing Management —, 5th Edition, Tata McGraw Hill Publishing Co Ltd., 2019
2. Philip Kotler - Principles of Marketing | basic concepts of marketing | By Pearson, 2018
3. Philip Kotler , Kevin Lane Keller — Marketing Management|| 15th Edition, Person Publications Limited, 2017.
4. Noel Capon and Siddharth Shekar Singh,|| managing Marketing–An Applied Approach||, Wiley India Pvt Limited 2017.

5. Kenneth E.Clow. Donald Baack, —cases in marketing management,|| 5th edition, Person India Ltd, 2014.
6. Arunkumar and Meenakshi, —Marketing Management,|| Vikas Publishing House, 2015.
7. Ramasamy and Namakumari, Marketing management–Global perspective –Indian context, 5th edition, Macmillan Publishers India Ltd, 2014.

P18LCMB125 SOFT SKILLS – II

P18LCMB125	SOFT SKILLS – II		L	T	P	C
	Total Contact Hours: 27		0	0	4	2
	Course Designed by : Ms Beena					
COURSE OUTCOMES (COs)						
Cos	COGNITIVE ABILITIES	COURSE OUTCOMES				
CO1	Remembering	Recall the concepts of relationship between Human Diversity and Effective Team Building				
CO2	Understanding	Compare the relationship between Transformational leadership and Personal, Community, National and World Change and identify the impact of external factors on ones’ Leadership Style				
CO3	Applying	Plan to manage conflict: understand and appropriately apply the skills of problem solving, conflict management and resolution while allowing for healthy disagreement				
CO4	Analyzing	Analyze the concepts of Managing Stress and Emotions to balance confidence with humility and strengthen personal character with an enhanced ethical sense				
CO5	Evaluating	Evaluate and improve upon personal Managerial strengths and weaknesses				
CO6	Creating	Develop skills to effectively lead others on a project or in an organization				

Mapping of Course Outcomes (S/M/L indicates strength of correlation) S-Strong, M-Medium, L-Low											
1	COs/ POs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
2	CO1	M	M	M		M	S	S	S	L	
	CO2				S		S	S	S		
	CO3	M	M		S				S		
	CO4					M	S	S	S		
	CO5				S		S		S		L
	CO6			M	S		S	S	S		
3	Cate gory		Professional Core (PC)								
4	Appr oval										

UNIT I - INTERPERSONAL SKILLS

6

Gratitude

Understanding the relationship between Leadership Networking & Team work. Assessing Interpersonal Skills Situation description of Interpersonal Skill.

Team Work: Necessity of Team Work Personally, Socially and Educationally

UNIT II - LEADERSHIP

5

Skills for a good Leader, Assessment of Leadership Skills

UNIT III - STRESS MANAGEMENT

5

Causes of Stress and its impact, how to manage & distress, Circle of control, Stress Busters.

Emotional Intelligence

What is Emotional Intelligence, emotional quotient why Emotional Intelligence matters, Emotion Scales. Managing Emotions.

UNIT IV - CONFLICT RESOLUTION

5

Conflicts in Human Relations – Reasons Case Studies, Approaches to conflict resolution.

UNIT V - DECISION MAKING

6

Importance and necessity of Decision Making, Process and practical way of Decision Making, Weighing Positives & Negatives.

Total No. of Periods: 27

TEXT BOOK:

SOFT SKILLS, 2015, Career Development Centre, Green Pearl Publications.

REFERENCES

1. 10 Skills for Effective Business Communication: Practical Strategies, Jessica Higgins, 2018
2. Presence: Bringing Your Boldest Self to Your Biggest Challenges, Amy Cuddy, 2018
3. The Leader Habit: Master the Skills You Need to Lead, Martin Lanik, 2018

P18LCMB126 BUSINESS APPLICATION SOFTWARE

P18LCMB126	BUSINESS APPLICATION SOFTWARE	L	T	P	C
	Total Contact Hours: 27	3	0	0	3

	gory		
4	Appr oval		

UNIT I FUNCTIONAL AREA PACKAGES

9

FINANCE PACKAGES:

Tally – Preparation of Purchase and Sales – Orders – Preparation of Invoices – Various Accounting Reports – EX – SAMP Metastock - Evolution of ERp – ERP and the Internet – Maximizing ERP Value.

UNIT II MARKETING PACKAGE:

9

SPSS – Set of Market Research Data – Summarize, Describe, Present Data and Graphics Methods – Calculate standard Deviation – Maximum, Minimum Mean Median Mode.

UNIT III OPERATION RESEARCH PACKAGE:

9

POM – TORA – Linear Programming – Transportation – Assignment & Network.

Total No. of Periods: 27

References:

1. Management Information Systems–Managing the Digital Firm, Kenneth C Laudon & Jane P Laudon, 14th Edition, 2017 ,Pearson India Education Services Pvt. Ltd.,
2. Succeeding in Business with Microsoft Excel 2013 – A Problem Solving Approach, Debra Gross, Frank Akaiwa, Karleen Nordquist, Cengage Learning, 1stEdition, 2014.
3. Computer Networks, Andrew S.Tanenbaum, 4th Edition, 2007,Pearson Education
4. Business Application Software by Ait Johri, Himalaya Publication House, 1st Edition, 2012.

P18PCMB231 STRATEGIC MANAGEMENT

P18PCMB231	STRATEGIC MANAGEMENT		L	T	P	C
	Total Contact Hours: 45		3	0	0	3
	Course Designed by: Dr.S.Praveen Kumar					
COURSE OUTCOMES (COs)						
CO#	COGNITIVE ABILITIES	COURSE OUTCOMES				
CO1	Remembering	Recall Conceptual framework for strategic management, the Concept of Strategy.				
CO2	Understanding	Associate the Stakeholders into business and to infer about Globalization and Industry Structure, Distinctive Competencies Resources and Capabilities durability of competitive Advantage and Corporate Governance and Social responsibility.				

CO3	Applying	Demonstrate skills to address, Low cost and differentiation Generic Building Blocks of Competitive Advantage, avoiding failures and sustaining competitive advantage, Corporate Strategy Vertical Integration, Diversification and Strategic Alliances, Distinctive Competitiveness, Selection of Matrix, Balance Score Card and implementing strategic change, Matching structure and control to strategy and the implementation process.
CO4	Analyzing	Mind Mapping and structuring the Strategy Formation Process, Business definition, Objectives and Goals, External Environment - Porter's Five Forces Model, National Context and Competitive advantage Resources, Capabilities and competencies—core competencies, The generic strategic alternatives – Stability, Expansion, Retrenchment and Combination strategies, Strategic analysis and choice, Environmental Threat and opportunity Profile (ETOP), Organizational Capability Profile - Strategic Advantage Profile, Corporate Portfolio Analysis - SWOT Analysis - GAP Analysis and Mc Kinsey's 7s Framework – GE 9 Cell Model.
CO5	Evaluating	Assess and measure the Strategic Groups Competitive Changes during Industry Evolution, Resource allocation, Business level strategy- Strategy in the Global Environment, Politics: Power and Conflict-Techniques of strategic evaluation & control.
CO6	Creating	Compose Vision, Mission and Purpose and Building and Restructuring the corporation, Designing Strategic Control Systems and Organizational Structure, Managing Technology and Innovation, New Business Models and strategies for Internet Economy-current trends and issues.

Mapping of Course Outcomes with Program Outcomes

(S/M/L indicates strength of correlation)											
S-Strong, M-Medium, L-Low											
1	COs/ POs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
2	CO1	S	S			S			S		
	CO2	S	S		S	S	M	S	S	S	
	CO3	S	S		S	S			S	S	S
	CO4	S	S	S	S	S			S		S
	CO5	S	S	S	S	S		S	S	S	S
	CO6	S	S	S	S	S	M	S	S	S	S
3	Cate gory		Professional Core (PC)								
4	Appr oval										

UNIT I STRATEGY AND PROCESS

9

Conceptual framework for strategic management, the Concept of Strategy and the Strategy Formation Process – Stakeholders in business – Vision, Mission and Purpose – Business definition, Objectives and Goals - Corporate Governance and Social responsibility-case study.

UNIT II COMPETITIVE ADVANTAGE

9

External Environment - Porter's Five Forces Model-Strategic Groups Competitive Changes during Industry Evolution-Globalization and Industry Structure - National Context and Competitive advantage Resources- Capabilities and competencies–core competencies-Low cost and differentiation Generic Building Blocks of Competitive Advantage- Distinctive Competencies Resources and Capabilities durability of competitive Advantage- Avoiding failures and sustaining competitive advantage-Case study.

UNIT III STRATEGIES

9

The generic strategic alternatives – Stability, Expansion, Retrenchment and Combination strategies
 - Business level strategy- Strategy in the Global Environment-Corporate Strategy Vertical Integration-Diversification and Strategic Alliances- Building and Restructuring the corporation- Strategic analysis and choice - Environmental Threat and opportunity Profile (ETOP) - Organizational Capability Profile - Strategic Advantage Profile - Corporate Portfolio Analysis - SWOT Analysis - GAP Analysis - Mc Kinsey's 7s Framework - GE 9 Cell Model – Distinctive competitiveness - Selection of matrix - Balance Score Card-case study.

UNIT IV STRATEGY IMPLEMENTATION & EVALUATION 9

The implementation process, Resource allocation, designing organizational structure-Designing Strategic Control Systems- Matching structure and control to strategy-Implementing Strategic change- Politics: Power and Conflict-Techniques of strategic evaluation & control-case study.

UNIT V OTHER STRATEGIC ISSUES 9

Managing Technology and Innovation- Strategic issues for nonprofit organizations. New Business Models and strategies for Internet Economy-current trends and issues- case study

TOTAL: 45 PERIODS

Reference Books

1. Thomas L.Wheelen and J.David Hunger Concepts in strategic management and business policy, Pearson Education Limited, 2018.
2. Charles W.L.Hill, Gareth R. Jones, Strategic Management–An integrated approach, Cengage Learning, 9th edition, 2016.
3. David, Fred and Forest R.David, Strategic Management: A competitive advantage approach, concepts and cases, 2016.
4. Angelo Dringoli, New perspectives on the Modern Corporation: Corporate strategy and Firm growth, Edward Elgar Publishing Limited, 2011
5. Business Strategy: Managing Uncertainty, Opportunity, and Enterprise by J.C. Spender
6. Blue Ocean Strategy, Expanded Edition: How to Create Uncontested Market Space and Make the Competition Irrelevant, 2014
7. The Innovator's Dilemma: When New Technologies Cause Great Firms to Fail, Clayton M. Christensen, W. Chan Kim
8. Hill. Strategic Management : An Integrated approach, 2009 Edition Wiley (2012).
9. John A.Parnell. Strategic Management, Theory and practice Biztantra (2012).

10. Azhar Kazmi, Strategic Management and Business Policy, 3rd Edition, Tata McGraw Hill, 2008.

P18PCMB232 BUSINESS ANALYTICS

P18PCMB232		Business Analytics	L	T	P	C
		Total Contact Hours: 45	3	0	0	3
		Course Designed by : Ms.Jayanthi				
COURSE OUTCOMES (COs)						
CO1	Remembering	recall the basic foundations of analytics into business and formulating strategies for various aspects of management for better work in the organization				
CO2	Understand	illustrate the basic concepts and framework of analytic domains, cloud computing and technologies to build the organization by structure and foster in various aspects through be solutions				
CO3	Apply	Apply the strategy and analytic techniques to nurturing the business to inculcate val effective communication and integrity within the business				
CO4	Analyze	Analyze data using statistical methods to foster strategies for enriching critical think problem solving skills and enhancing responsibility in the changing business scenario				
CO5	Evaluate	Evaluating the analytic models for Business to align with challenges for resolving conflict enhancing problem solving to adapt to the changing business environment				
CO6	Create	Create strategic plan on decision making to predict and forecasting the effective application business				

Mapping of Course Outcomes with Program Outcomes											
(S/M/L indicates strength of correlation)											
S-Strong, M-Medium, L-Low											
1	COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
2	CO1	L			M			S	S	L	
	CO2		S			S		S	S		

	CO3	L			M				S		S
	CO4					S			S		S
	CO5				M	S		S	S	L	
	CO6		S			S		S			S
3	Category		Fundamental Core (FC)								
4	Approval										

UNIT I INTRODUCTION

9

Data, Information, Intelligence, Information Technology, Information System, evolution, types based on functions and hierarchy, System Analyst – Role, Functions.

UNIT II SYSTEMS ANALYSIS AND DESIGN

9

SDLC, SSLC, Systems Analysis and System Design, Tools – DFD – ER – Object modeling, DBMS – RDBMS – OODBMS.

UNIT III INFORMATION SYSTEM

9

Financial, Marketing, Personnel, Production, Materials Information System, DSS, EIS, KMS, GIS, International Information System.

UNIT IV SECURITY AND CONTROL

9

Security, Testing, Error detection, Controls, IS Vulnerability, Computer Crimes, Securing the Web, Intranets and Wireless Networks, Software Audit, Ethics in IT.

UNIT V NEW IT INITIATIVES

9

e- business, e-governance, ERP, SCM, e-CRM, Data warehousing and Data Mining, Business Intelligence, Pervasive Computing, CMM.

TOTAL:45 PERIODS

TEXT BOOKS

1. Robert Schultheis and Mary Summer, Management Information Systems – The Managers View, Tata McGraw Hill, 2008.

2. Kenneth C. Laudon and Jane Price Laudon, Management Information Systems – Managing the digital firm, PHI Learning / Pearson Education, PHI, Asia, 2002

REFERENCES

1. Gordon Davis, Management Information System : Conceptual Foundations, Structure and Development, Tata McGraw Hill, 2000.

2. Haag, Cummings and McCubbrey, Management Information Systems for the Information Age, McGraw Hill, 2005.

3. Turban, McLean and Wetherbe, Information Technology for Management – Transforming Organisations in the Digital Economy, John Wiley, 2007.

4. Raymond McLeod and Jr. George P. Schell, Management Information Systems, Pearson Education, 2007.

5. James O'Brien, Management Information Systems – Managing Information Technology in the E-business enterprise, Tata McGraw Hill, 2002.

P18PCMB233		PRODUCTIONS AND OPERATIONS MANAGEMENT		L	T	P	C
		Total Contact Hours: 45		3	0	0	3
		Course Designed by : Ms.J.Pavithra					
COURSE OUTCOMES (COs)							
CO1	Remembering	Recall the concept of operations management and quality management Tools					

CO2	Understand	Illustrate the features of the production and operations management function at the operational and strategic levels, specifically quality control, types of production and control systems
CO3	Apply	Build the strategic plan on qualitative and quantitative forecasting models , control techniques and master production scheduling of Production and operations
CO4	Analyze	Analyze the selection of forecasting methods problems and categorize the Plant location, layout and factors influencing in strategic operations
CO5	Evaluate	Evaluate the production planning and decision making on problem acceptance Plans through the concept of six sigma and lean concepts
CO6	Create	Create strategic plan on demand and forecasting in operations and production

Mapping of Course Outcomes with Program Outcomes (S/M/L indicates strength of correlation) S-Strong, M-Medium, L-Low											
1	COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
2	CO1		S			S		S			
	CO2	S	S			S		S	S		
	CO3	S			S	S			S		M

	CO4	S				S	L	S		L	
	CO5		S		S			S	S		
	CO6	S			S				S		
3	Category		Fundamental Core (FC)								
4	Approval										

UNIT – I: MANAGING OPERATIONS IN A GLOBAL ENVIRONMENT 9

Introduction to operations management – Historical Milestones – Factors affecting POM today – Operations Strategies In a global economy – Global business conditions – Linking marketing and production strategies.

UNIT – II: PLANNING THE STRATEGIC USE OF RESOURCES 9

Demand Forecasting – Qualitative forecasting methods – Quantitative forecasting models for long range & short range forecasts – Selection of forecasting methods problems – Plant location and layout, definition and factors influencing--Computer software for forecasting – Inventory Management, EOQ.

UNIT – III: OPERATION QUALITY MANAGEMENT 9

Nature of quality – Traditional quality Management – Modern quality Management tools – 5’S - Recognition for quality management, ISO – TQM Programmes – Quality Management in services – Quality control- concepts, control charts & sampling –Problems – Acceptance plans

UNIT – IV: PROJECT MANAGEMENT AND SUPPLY CHAIN MANAGEMENT 9

Project planning and control techniques – Gantt chart – CPM & PERT –Activity cost – Time Trade off – Computer software for project Management Purchasing.

UNIT –V: PRODUCTION PLANNING AND DECISION MAKING. 9

Aggregate planning, Master Production scheduling – Types of Production Planning & Control Systems –Problems – Concepts of Six Sigma – Lean - Concepts of Green Belt.

TOTAL: 45 PERIODS

References:

1. R. Panneerselvam, Production & operations management, Prentice Hall India private limited, 2017
2. Operations Management, William J. Stevenson, 2018
3. Chary, S.N., Production and Operation Management, 5e, 5th Edition, Tata McGraw Hill education private limited, 2016
4. Mahadevan B., Operations Management Theory and Practice, Pearson Publication, 3rd Edition, 2015
5. Paneer Selvam - Production and Operation Management – Prentice Hall of India, New Delhi - 2nd edition, 2012
6. The Production Manager's Toolkit: Successful Production Management, Carry Gillet, 2016
7. K. Aswathappa and K. Sridhara Bhat - Production and Operation Management – Himalaya Publishing House, New Delhi

P18PCMB234	OPERATIONS RESEARCH	L	T	P	C
	Total Contact Hours: 45	3	0	0	3
	Course Designed by : Ms.Jayanthi				
COURSE OUTCOMES (COs)					

4	Appr oval		

UNIT I OPERATIONAL RESEARCH CONCEPTS AND TECHNIQUES 12

Introduction to OR – Applications of OR – Operational Definitions - evaluation of the field, scope, phase merits and limitations – concept of optimization

UNIT II LINEAR PROGRAMMING 12

Linear Programming - Formulation and Graphical solution to two variables – Simplex Method

UNIT III GAME THEORY 12

2x2 zero sum game with dominance - Pure Strategy and Mixed Strategy

UNIT IV ASSIGNMENT AND TRANSPORTATION 12

Transportation problem by Vogel's approximation method with MODI optimality test; assignment problem including traveling salesman model

UNIT V NETWORKING TECHNIQUES AND MODELS 12

Networking – PERT – CPM – Sequencing of jobs – Queuing Models

TOTAL: 60 PERIODS

REFERENCES:

1. Taha, H.; Operations research, New York, Macmiullan. , 2016
2. Theirouf and Klekamp; Decision Through Operations Research, New York, John Wiley., 2019
3. Levin, Kerpatrick and Rubin; Quantitative Approach to Management, New Jersey, Prentice Hall.
4. Operations Research, Hira, 2018
5. Sharma, J.K.; Operations Research: Theory and applications, New Delhi, Machmillan., 2015

6. Kanti Swaroop: Operations Research. , 2014
7. Vohra, N.D.: Quantitative Techniques in Management.
8. Nita H Shah, Ravi M Gor & Hardik Soni, Operations Research, Prentice Hall of India, New Delhi,2013
9. Kalavathy S, Operations Research, Vikas Publishing House, Noida, 2013
10. PanneerSelvam R, Operations Research, Prentice Hall of India, New Delhi,2013

P18LCMB236	WEB DESIGN LAB				L	T	P	C
	Total Contact Hours: 27				0	0	4	2
	Course Designed by : Ms Gomathi							
COURSE OUTCOMES (COs)								
CO#	COGNITIVE ABILITIES	COURSE OUTCOMES						

CO1	Remembering	Recall the concepts of HTML and Javascript that are vital in webpage development.
CO2	Understanding	Demonstrate knowledge of languages, mark up tags, and good coding practices commonly used to create web pages.
CO3	Understanding	Understand how to use HTML and Javascript for basic web development.
CO4	Applying	Apply a user-defined tags and Javascript to the development and design of web sites.
CO5	Analyzing	Analyze given assignment to select sustainable web development and design methodology and inspect user experience and usability issues related to web sites.
CO6	Creating	Design a simple, functioning website using HTML and Javascript.

Mapping of Course Outcomes with Program Outcomes (S/M/L indicates strength of correlation) S-Strong, M-Medium, L-Low											
1	COs/ POs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
2	CO1		M						S		
	CO2								S		M
	CO3	M			S				S		
	CO4				S				S		M
	CO5	M	M		S		L	L	S		
	CO6				S				S		
3	Cate gory		Lab Core (LC)								
4	Appr oval										

Introduction, World Wide Web, Web Browsers, Web Page, Introduction to Java and its Web Applications, Search Engines

UNIT II Basic Web Page Development 6

HTML Basics- creating HTML document, Building a Web Page-Text and Image formatting-Adding links, Web Development Tools

UNIT III Web Page Development with HTML 8

Introduction, HTML Table Structure-Basic HTML table tags-Formatting the table, Multimedia Files on a Web Page, Using a Form-Creating formatted lists, Using Frames in a Web Page

UNIT IV Using JavaScript 8

Overview of JavaScript, Using JavaScript in a Web Page, Event Handlers, Benefits and Drawbacks of JavaScript.

TOTAL: 27 PERIODS

References:

1. HTML and CSS: Design and Build Websites, by Jon Duckett
2. Learning Web Design: A Beginner's Guide to HTML, CSS, JavaScript, and Web Graphics, by Jennifer Niederst Robbins

P18PCMB241 INTERNATIONAL BUSINESS MANAGEMENT

P18PCMB241		INTERNATIONAL BUSINESS MANAGEMENT	L	T	P	C
		Total Contact Hours: 45	3	0	0	3
		Course Designed by : Mr Ravi Mohan.				
COURSE OUTCOMES (COs)						
CO1	Remember	Recall the concepts and theories of international trade and theories of international investment in international business and its functional fields				
CO2	Understand	classify the international trade and investment and socio- economic environment of International business, performance and the structure of global business				
CO3	Apply	Apply the current business phenomenon on global production and identify the challenges in production and global development, the factors causing globalization of business				
CO4	Analyze	Analyze the international trade and investment and need for global competitions on quality consideration, inspect the conflicts in International business				
CO5	Evaluate	evaluate the international strategy and performance of global business through evaluation system				
CO6	Evaluate	Evaluate the conflict and ethical issues in international business and incorporate the ethical decision making				

Mapping of Course Outcomes with Program Outcomes											
(S/M/L indicates strength of correlation)											
S-Strong, M-Medium, L-Low											
1	COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
2	CO1		S	M		S		S	S	S	
	CO2	S				S		S	S		S
	CO3		S	M		S			S		S

	CO4	S			M	S			S	S	S
	CO5	S	S		M			S	S	S	S
	CO6		S	M				S		S	
3	Category		Fundamental Core (FC)								
4	Approval										

UNIT I: INTRODUCTION

9

International Business –Definition – Internationalizing business-Advantages –factors causing globalization of business- international business environment – country attractiveness –Political, economic and cultural environment – Protection Vs liberalization of global business environment.

UNIT II INTERNATIONAL TRADE AND INVESTMENT

9

Promotion of global business – the role of GATT/WTO – multilateral trade negotiation and agreements – VIII & IX, round discussions and agreements – Challenges for global business – global trade and investment – theories of international trade and theories of international investment – Need for global competitiveness – Regional trade block – Types – Advantages and disadvantages – RTBs across the globe – brief history.

UNIT III INTERNATIONAL STRATEGIC MANAGEMENT

9

Strategic compulsions-Standardization Vs Differentiation – Strategic options – Global portfolio management- global entry strategy – different forms of international business – advantages - organizational issues of international business – organizational structures – controlling of international business – approaches to control – performance of global business- performance evaluation system.

UNIT IV PRODUCTION, MARKETING, FINANCIAL AND HUMAN RESOURCE MANAGEMENT OF GLOBAL BUSINESS

9

Global production –Location –scale of operations- cost of production – Make or Buy decisions – global supply chain issues – Quality considerations- Globalization of markets, marketing strategy – Challenges in product development , pricing, production and channel management- Investment decisions – economic- Political risk – sources of fund- exchange –rate risk and management – strategic orientation – selection of expatriate managers- Training and development – compensation.

UNIT V CONFLICT MANAGEMENT AND ETHICS IN INTERNATIONAL BUSINESS MANAGEMENT

9

Disadvantages of international business – Conflict in international business- Sources and types of conflict – Conflict resolutions – Negotiation – the role of international agencies –Ethical issues in international business – Ethical decision-making.

TOTAL: 45 PERIODS

REFERENCES

1. International Business | 7th Edition, K. Aswathappa, 2020
2. International Business, 15/e, Prashant Salwan John D. Daniels, Lee H. Radebaugh, Daniel P. Sullivan, 2016
3. Albaum Duerr - International Marketing and Export management (Pearson), 2016
4. Cherunilam F – International Business (PHI), 2010
5. Hill C.W. - International Business (McGraw Hill), 2019

P18PCMB242	BUSINESS ETHICS, CORPORATE SOCIAL RESPONSIBILITY AND GOVERNANCE		L	T	P	C
	Total Contact Hours: 45		3	0	0	3
	Course Designed by : Mr.R.Ramamoorthy					
COURSE OUTCOMES (COs)						
CO1	REMEMBER	Recall the definition & Nature of business ethics, political- legal environment and the salient features of Indian culture and its value, economic environment; philosophy of economic grow and its implication for business				
CO2	UNDERSTAND	Understand the management of ethics, characteristics, ethical theories and the provisions of the Indian constitution pertaining of business with major characteristics and their implications of business. Identifying the main features of economic planning respect to business and the role of chamber of commerce and confederation of Indian industries. The theoretical perceptive and corporate citizenship evaluation & corporate governance, governance practices & regulations and causes of unethical behaviour , ethic abuses, prominent features of MRTP & FERA				
CO3	APPLY	Apply the role and functions of ethical managers and the industrial policy & framework of government contract over business, political setup, work ethics and code of conduct				
CO4	ANALYZE	Analyze the ethics practices, ethical dilemma and ethics for managers (ethics analysis (hosmer model) and to measure with comparative ethic behaviour for managers and the competitiveness, code of ethics and organization size with profitability and ethics, cost of ethics in corporate evaluation.				
CO5	EVALUATE	Evaluate the competitiveness, organizational size, profitability and ethics , cost of ethics in corporate ethics evaluation, challenges and implementation, governance ratings				
CO6	CREATE	Create the Strategies for CSR, Structure and development of boards, innovative practices based on future governance and main features of economic planning with respect to business				

UNIT I INTRODUCTION**9**

Definition & nature Business ethics, Characteristics, Ethical theories; Causes of unethical behavior; Ethical abuses; Work ethics; Code of conduct; Public good.

UNIT II ETHICS THEORY AND BEYOND**9**

Management of Ethics - Ethics analysis [Hosmer model]; Ethical dilemma; Ethics in practice - ethics for managers; Role and function of ethical managers- Comparative ethical behaviour of managers; Code of ethics; Competitiveness, organizational size, profitability and ethics; Cost of ethics in Corporate ethics evaluation. Business and ecological / environmental issues in the Indian context and case studies.

UNIT III LEGAL ASPECTS OF ETHICS**9**

Political – legal environment; Provisions of the Indian constitution pertaining to Business; Political setup – major characteristics and their implications for business; Prominent features of MRTP & FERA. Social – cultural environment and their impact on business operations, Salient features of Indian culture and values.

UNIT IV ENVIRONMENTAL ETHICS**9**

Economic Environment; Philosophy of economic growth and its implications for business, Main features of Economic Planning with respect to business; Industrial policy and framework of government contract over Business; Role of chamber of commerce and confederation of Indian Industries.

UNIT V CORPORATE SOCIAL RESPONSIBILITY AND GOVERNANCE**9**

Definition- Evolution- Need for CSR; Theoretical perspectives; Corporate citizenship; Business practices; Strategies for CSR; Challenges and implementation; Evolution of corporate governance; Governance practices and regulation; Structure and development of boards; Role of capital market and government; Governance ratings; Future of governance- innovative practices; Case studies with lessons learnt.

TOTAL: 45 PERIODS**REFERENCES**

1. Wayne Visser and Nick Tolhurst, The World Guide to CSR –, Green leaf publishing, 2017.
2. Mark S. Schwartz, Corporate Social Responsibility: An Ethical Approach, Broad view press, 2011.
3. The A to Z of corporate social responsibility, Wayne Visser, Dirk Mattern, Manfred Pohl, Nick Tolhurst, An ICCA Publication, 2010
4. R Nandagopal, AjithSankar RN: Indian Ethics and Values in Management, Tata Mc Graw Hill, 2010
5. BUSINESS ETHICS, CORPORATE SOCIAL RESPONSIBILITY AND GOVERNANCE, Khanka, 2014
6. Nandagopal, Ajith Shankar, Indian Ethos and Values in Management, Tata Mc Graw Hill, 2011
7. Khandelwal Indian Ethos and Values for Managers, Himalaya Publishing House, 2017

P18FCMB243	LEGAL ASPECTS OF BUSINESS		L	T	P	C
	Total Contact Hours: 45		3	0	0	3
	Course Designed by : Ms.J.Pavithra					
COURSE OUTCOMES (COs)						
CO1	Remember	Recall the basic foundations of Indian contract act, Negotiable instruments act, Industrial disputes act, Payment of wages act, Factories act and Information Technology Act				
CO2	Understand	Interpret on the legal procedures for formation of a contract and rules of promissory note bill of exchange and cheques and the procedures for memorandum and articles of association and prospectus and also provide conceptual foundation on e commerce and e contract				
CO3	Understand	Summarize the various procedures for formation of a factory and set standards for the workers with respect to minimum wages and bonus and protect business through cyber law relating to intellectual property, trade marks and copy rights				

CO4	Apply	Apply the laws of Indian contract act, negotiable instruments and apply the appropriate acts accordingly for settling of industrial disputes and the internet policies given by the Government of India
CO5	Apply	Identify the appropriate laws so to form the contract and execute through the negotiable instrument and company law and adopt the various procedures relating to setting up of a factory, trade union providing bonus and compensation of wages to workmen and legal procedures related to cyber issues
CO6	Analyze	Analyze in accordance with appropriate sections of the various laws relating to the powers and rules of directors , ESI Act, workmen compensation act, Payment of wages act and provide effective guidelines on intellectual property law.

	COs /Pos	PO1	PO2	PO3	PO4	PO5	PO 6	PO 7	PO 8	PO9	PO 10
1	CO1						S		S		
2	CO2					S	S				
3	CO3						S		S		
4	CO4	S				S				S	
5	CO5	S					S		S		
6	CO6					S	S			S	
3	Cate gory		Professional Core (PC)								
4	App rova l										

The Indian Contract Act 1872 – Essential of a valid contract - Void Agreements - Formation of a contract – Performance of contracts – breach of contract and its remedies – Quasi contracts.

UNIT – II: NEGOTIABLE INSTRUMENTS ACT 1881 **9**

Nature and requisites of negotiable instruments – transfer of negotiable instruments and liability of parties’ enforcement of Secondary liability – holder in due course – special rules for cheques and drafts, - discharge of negotiable instruments- recent cases with negotiable instruments.

UNIT – III: INDUSTRIAL LAW

Factories Act – Payment of wages act – Bonus act- Minimum wages act – Industrial disputes Act- Trade Unions Act – Gratuity Act 1972 – ESI Act – Workmen Compensation Act

UNIT – IV: COMPANY LAW & INDUSTRIAL LAW **9**

Major principles – Nature and types of companies – Formation – Memorandum and Articles of Association – Prospectus - Power – duties and liabilities of Directors – Winding up of Companies.

UNIT – V: CYBER LAW AND INTELLECTUAL PROPERTY LAW **9**

Overview – salient features of IT Act – Cyber Crimes – Types – Penalties thereof – E-Commerce – E Contract – Internet Policies of Government of India – Forms of Intellectual property – Patents – Copyrights – Trademarks – Industrial designs – Essential Elements of IPR

TOTAL: 45 PERIODS

References:

1. Legal Aspect Of Business, 7th Edition, By Akhileshwar Pathak, 2018
2. Legal Aspects of Business, Akhileshwar Pathak, 2018
3. Legal Aspects of Business: Concepts and Applications, Parul Gupta, 2018
4. Ravindra Kumar– Legal Aspects of Business–Cengage–2016
5. Akhileshwar Pathak, Legal aspects of business– Tata McGraw–Hill,2016

ELECTIVES WITH SPECIALISATION

P18FIMB001	SECURITIES AND INVESTMENT MANAGEMENT		L	T	P	C
	Total Contact Hours: 45		3	0	0	3
	Course Designed by : Dr.A.Geetha					
COURSE OUTCOMES (COs)						
CO1	REMEMBER	Define capital market and its development of capital market in india through stock exchanges and list the various procedures towards primary market and secondary market				
CO2	UNDERSTAND	Interpret the organizing and functioning of stock exchanges and listing of securities, SEBI objectives and functions and demonstrate the trading system of BSE and NSE and outline the fundamental and technical analysis for portfolio management				
CO3	APPLY	Apply the various procedures of primary market and parties involved in new issue through placement and pricing of new issues and identify the stock exchanges across the world				
CO4	ANALYZE	Identify the fundamental analysis through economic analysis, industry				

UNIT – I INTRODUCTION TO CAPITAL MARKETS 9

Capital Market – Meaning – Primary and Secondary Market – Capital Market development in India – Stock Exchanges – organization and functioning – BSE & NSE – Listing of Securities – SEBI – Objectives and Functions – SEBI Guidelines on Capital Market

UNIT – II PRIMARY AND SECONDARY MARKET 9

New Issue market – parties involved in the new issue – Government & Statutory agencies – Collection Centers – Placement of the Issue – Pricing of New Issues – Allotment of shares. – Stock Exchanges – BSE – Trading System – NSE – Trading System – Stock Exchanges across the world – Stock Market Case Analysis

UNIT – III FUNDAMENTAL ANALYSIS 9

Economic Analysis – Macro Economic Variables – Methods of economic analysis – Industry analysis – Industry life cycle – Industry factors – Company analysis – Key internal variables – Measuring and forecasting earnings – Case Analysis

UNIT –IV TECHNICAL ANALYSIS 9

Dow Theory – Efficient market hypothesis – charting methods and patterns – Technical Indicators – SMA, EMA, ROC, RSI, MACD, Oscillators – Case Analysis

UNIT –V PORTFOLIO MANAGEMENT 9

Introduction to portfolio management – Measurement of portfolio risk and return – Portfolio construction – Traditional and Modern Portfolio Construction – Markowitz Theory – Sharpe Model – Portfolio Evaluation – Sharpe's, Treynor's and Jensen's Measure for portfolio performance – Portfolio revision

TOTAL: 45 PERIODS

References:

1. Investment Management Security Analysis & Portfolio Management by Vk Bhalla (Author), S Chand & Company Pvt Ltd (Publisher), 2018
2. Security Analysis & Portfolio Management Investment Management by Shashi K Gupta, Rosy Joshi (Author), Kalyani Publishers / Lyall Bk Depot (Publisher), 2018
3. Security Analysis and Portfolio Management, 6e, Fischer DE & Jordan R J (Prentice Hall).
4. Investments, 6e, Bodie, Zvi; Kane, Alex; Marcus, Alan J; Mohanty, Pitabas (Tata McGraw Hill Publishing Co. Ltd.), 2014

5. Prasanna Chandra: "Investment Analysis and Portfolio Management", Tata McGraw Hill Education Private Limited, New Delhi, 2018
6. K Sasidharan Alex K Mathews - Security Analysis and Portfolio Management - Tata McGraw Hill - 1st Edition - 2011.
7. Investment Management & Security Analysis : Text And Cases by Dhanesh Kumar Khatri (Author), Macmillan Publishers India (Publisher), 2006
8. K. Nagarajan and G. Jayabal - Security Analysis and Portfolio Management - New Age Publication - 1st Edition - 2011.
9. Punithavathy Pandian - Security Analysis and Portfolio Management - Vikas Publications - 2nd Edition.

MANAGERIAL BEHAVIOUR AND EFFECTIVENESS

P18HRMB001	MANAGERIAL BEHAVIOUR AND EFFECTIVENESS		L	T	P	C
	Total Contact Hours: 45		3	0	0	3
	Course Designed by: Ms.Magdalene Peter					
COURSE OUTCOMES (COs)						
CO#	COGNITIVE ABILITIES	COURSE OUTCOMES				
CO1	Remembering	State the various dimensions of jobs performed by the employees in an organization and to define the various roles of a manager for effective performance by comparing the different methods and models in various levels of management.				
CO2	Understanding	Describe the steps in recruitment and selection process followed by the Organization and the criteria followed by HR managers to appraise the performance employees in the organization. and how to be an optimizer.				
CO3	Applying	Relate to the organizational climate and the steps involved in organization Processes for Selection, Skills Development, Pay and Rewards, the leadership qualities and different kinds of leadership styles followed by the leaders.				
CO4	Analyzing	Examine the factors influencing effectiveness of managers in an Organization, Motivation, Career Management and the industrial and government practices followed				

		by various industries.
CO5	Evaluating	Evaluate the environmental issues in Managerial Effectiveness which includes the method followed by employees for self-development, Performance appraisal methods, Negotiation skills adopted and Knowledge Management system developed and maintained by the Organization.
CO6	Creating	Develop the winning edge by fostering Creativity and Innovation to sustain competition.

Mapping of Course Outcomes with Program Outcomes											
(S/M/L indicates strength of correlation)											
S-Strong, M-Medium, L-Low											
1	COs/ POs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
2	CO1	S			S			S	S		S
	CO2	S	S	S	S	S		S	S		S
	CO3	S	S	S		S	L	S	S	S	S
	CO4		S	S	S	S		S	S	S	S
	CO5	S	S	S	S	S		S	S	S	S
	CO6		S					S	S	S	
3	Cate gory		Professional Core (PC)								
4	Appr oval										

UNIT I: DEFINING THE MANAGERIAL JOB

9

Descriptive Dimensions of Managerial Jobs – Methods – Model – Time Dimensions in Managerial Jobs – Effective and Ineffective Job behavior – Functional and level differences in Managerial Job behavior.

UNIT II: DESIGNING THE MANAGERIAL JOB**9**

Identifying Managerial Talent – Selection and Recruitment – Managerial Skills Development – Pay and Rewards – Managerial Motivation – Effective Management Criteria – Performance Appraisal Measures – Balanced Scorecard - Feedback – Career Management – Current Practices.

UNIT III: THE CONCEPT OF MANAGERIAL EFFECTIVENESS**9**

Definition – The person, process, product approaches – Bridging the Gap – Measuring Managerial Effectiveness – Current Industrial and Government practices in the Management of Managerial Effectiveness- the Effective Manager as an Optimizer.

UNIT IV: ENVIRONMENTAL ISSUES IN MANAGERIAL EFFECTIVENESS**9**

Organizational Processes – Organizational Climate – Leader – Group Influences – Job Challenge – Competition – Managerial Styles.

UNIT V: DEVELOPING THE WINNING EDGE**9**

Organizational and Managerial Efforts – Self Development – Negotiation Skills – Development of the Competitive Spirit – Knowledge Management – Fostering Creativity and innovation .

TOTAL: 45 PERIODS**References:**

1. Managerial Behaviour and Effectiveness by K Minraj, 2020
2. Effective Management: Developing yourself, others and organizations,Dietmar Sternad, 2019
3. The Human Factor Approach to Managerial and Organizational Efficiency and Effectiveness by Senyo Adjibolosoo, 2018
4. Managerial Behaviour and Effectiveness by Amanda E. Raja, K. P. Rao, et al., 2010

P18MKMB001	Retail Management	L	T	P	C
	Total Contact Hours: 45	3	0	0	3
	Course Designed by: Mr.R.Bharathvajan				
COURSE OUTCOMES (COs)					

UNIT – I OVERVIEW**9**

An overview of Global Retailing – Challenges and opportunities – Retail trends in India – Socioeconomic and technological Influences on retail management – Government policy implications on retailing.

UNIT– II RETAIL FORMAT**9**

Organized and unorganized formats – Types of retail format –Store Based Formats—Non Store Formats--Characteristics of each format –Emerging trends in retail format – MNC's role in organized retail format.

UNIT – III RETAIL MIX**9**

Choice of retail location - Internal and external atmospherics – Positioning of retail shops –Building retail store Image - Retail service quality management – Retail Supply Chain Management – Retail Pricing Decisions.

UNIT – IV FOCUS ON CUSTOMER**9**

Retailing and consumption- Consumer Requirements- The changing consumer demographics--lifestyle changes--shopping behavior- Retail outlet selection- legal and ethical issues in retailing.

UNIT – V RETAIL MARKET STRATEGY**9**

Retail Market strategy- Store Positioning- Retail Marketing mix- Definition of retail strategy- SWOT-focus on the customer-nature of strategic planning-Budget implementation and control.

TOTAL: 45 PERIODS**REFERENCES**

1. Retailing Management : Text and Cases | 6th Edition by Swapna Pradhan, 2020
2. Retail Management, 13e by Barry Berman, Joel R Evans , et al., 2017
3. Retail Management by J. K. Nayak and Prakash C. Dash, 2016
4. The A to Z of Retail Management by Swapnil Saurav and Ravi Potti, 2013
5. Michael Havy ,Baston, Aweitz and Ajay Pandit, Retail Management, Tata McgrawHill,Sixth Edition, 2007
6. Patrick M. Dunne and Robert F Lusch, Retailing, Thomson Learning, 4th Edition 2008.

7. Chetan Bajaj, Rajnish Tow and Nidhi V. Srivatsava, Retail Management, Oxford University Press, 2007.
8. SwapnaPuadham, Retail Management -Text and Cases, Tata McGraw Hill, 2nd Edition,2008.
9. Dunne, Retailing, Cengage Learning, 2nd Edition, 2008

P18BIMB001	BANKING FUNDAMENTALS AND CONCEPTS		L	T	P	C
	Total Contact Hours: 45		3	0	0	3
	Course Designed by: Mr.C.Gowtham Chakravarthy					
COURSE OUTCOMES (COs)						
C01	Remembering	Find the structural developments and trends in banking and their impact on banks operations and performance				
C02	Understand	Demonstrate broad and coherent knowledge of the theoretical and professional disciplines of banking, finance, investment analysis, portfolio management, accountancy, economics, quantitative methods, law, and the Financial Services Industry.				
C03	Apply	Develop the capability of critical evaluation of alternative conceptualizations, methodologies and frameworks used in international banking and finance Synthesize and apply a strategy for the collection, analysis, critical evaluation And interpretation of data.				
C04	Analyze	Classify the topics related to banking and monetary policies, financial institutions and financial risks. Compare the different financial institutions and t instruments.				
C05	Evaluate	Explain ethical issues in banking and consider their implications for conduct of business. Explain regulatory issues that arise in banking and examine the rationale for and principles of financial regulation				
C06	Create	Develop appropriate effective written and oral communication skills relevant to banking and financial institutions. Improve the ability to listen, discuss and analysis the financial data.				

Mapping of Course Outcomes with Program Outcomes											
(S/M/L indicates strength of correlation)											
S-Strong, M-Medium, L-Low											
1	COs/ POs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
2	CO1		S			S			S	S	
	CO2		S			S		M	S		
	CO3	S	S		S	S				S	S
	CO4				S	S		M	S	S	
	CO5	S			S		M	M	S		S
	CO6	S	S			S	M	M	S	S	S
3	Cate gory		Professional Core (PC)								
4	Appr oval										

Mapping of Course Outcomes with Program Outcomes											
(S/M/L indicates strength of correlation)											
S-Strong, M-Medium, L-Low											
1	COs/ POs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
2	CO1		S			S			S	S	
	CO2		S			S		M	S		
	CO3	S	S		S	S				S	S
	CO4				S	S		M	S	S	
	CO5	S			S		M	M	S		S
	CO6	S	S			S	M	M	S	S	S
3	Cate gory		Professional Core (PC)								
4	Appr oval										

Mapping of Course Outcomes with Program Outcomes (S/M/L indicates strength of correlation) S-Strong, M-Medium, L-Low											
1	COs/ POs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
2	CO1		S			S			S	S	
	CO2		S			S		M	S		
	CO3	S	S		S	S				S	S
	CO4				S	S		M	S	S	
	CO5	S			S		M	M	S		S
	CO6	S	S			S	M	M	S	S	S
3	Cate gory		Professional Core (PC)								
4	Appr oval										

[illegible]

UNIT I - BANKING BASICS

9

Concept of Banking – Meaning and Definition – Evolution of Banking - Banking Regulation Act 1949 – Classification of Banks - RBI Act 1938 - Reserve Bank of India — Public Sector Banks Vs Private Sector Banks – Branchless Banking – Recent Trends.

UNIT II – CENTRAL BANKING SYSTEM

9

Reserve Bank of India – Structure and Functions – RBI policies – Qualitative and Quantitative Credit Control Methods - RBI Guidelines – BASEL Norms – Guidelines on NPAs – Guidelines on NBFCs – Recent Structural Changes.

UNIT III – COMMERCIAL BANKING AND PRIVATE BANKING

9

Concept of commercial banks – Functions of Commercial Banks – Nationalization of Banks Role of Commercial Banks –Scheduled Banks – Recent Structural changes – Private Banking – Evolution – Recent Trends in private banking – Case Analysis.

UNIT IV – TECHNOLOGICAL INNOVATION IN BANKING

9

RBI Innovations - Concept of Core Banking Solutions – Branchless Banking – Total Branch Computerization – Micro Ink Character Reorganization (MICR) - ECS – ATMs – Phone Banking - Internet Banking - Mobile Banking – Electronic Fund Transfer – NEFT – RTGS - Technologies for rural banking – Back office Operations – Issues and Challenges.

UNIT V – INTERNATIONAL BANKING

9

International Banking – Offshore Banking – Bank for International Settlement – EXIM Bank - Current International Banking scenario – Globalization and the transformation in international banking – RBI Guidelines on Foreign Exchange – Regulations of NRI Accounts – Role of World Bank and IMF – Role of ADB.

TOTAL: 45 PERIODS

REFERENCES

1. Banking Theory Law And Practice by Nirmala K. Prasad, 2018
2. M.N. Gopinath – Banking Principles and Operations – Snow White Publsiher, 2017
3. Muraleedharan D – Modern Banking: Theory and Practice – Prentice Hall of India., 2014
4. K.C. Shekhar and LekshamyShekar – Banking Theory and Practice – Vikas Publishing House., 2013
5. Rakesh Kumar – Principles of Banking – Surendra Publications.. 2009
6. Rajesh and Sivagananthi – Banking Theory Law and Practice – Tata McGraw Hill, 2009

P18LOMB001	LOGISTICS AND SUPPLY CHAIN MANAGEMENT		L	T	P	C
	Total Contact Hours: 45		3	0	0	3
	Course Designed by : Mr Gowtham Aashirwad Kumar					
COURSE OUTCOMES (COs)						
CO#	COGNITIVE ABILITIES	COURSE OUTCOMES				
CO1	Remembering	List the fundamental concepts of Logistics and Supply Chain Management.				
CO2	Understanding	Summarize Supply Chain Management and Role Of Manager, types of Inventory Control, Transportation Management, Levels of Supply Chain, Conflict Resolution Strategies, Certifications, Store Management, Warehouse, Commercial Aspects of Distribution Management.				
CO3	Analyzing	Analyse the needs, participants of Supply Chain Management and the demand forecasting techniques.				
CO4	Analyzing	Analyse the key enablers in Supply Chain Management.				
CO5	Evaluating	Evaluate the performance of Supply Chain Management, supply chain with business strategy,				
CO6	Creating	Create SCOR Model Supply Chain Relationships				

Mapping of Course Outcomes with Program Outcomes

(S/M/L indicates strength of correlation)											
S-Strong, M-Medium, L-Low											
1	COs/ POs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
2	CO1	L									
	CO2		S			S	S				
	CO3				M	S				L	M
	CO4				M	S					M
	CO5				M	S				L	M
	CO6				M						M
3	Cate gory		Professional Elective (PE)								
4	Appr oval										

UNIT I

9

Logistics management: Origin and Definition - customer service and logistics management – a perspective - concepts in Logistics and Physical Distribution – Distribution inventory

UNIT II

9

Types of inventory control – demand forecasting – warehousing and stores management – routing – transportation management – commercial aspects in distribution management – codification – Distribution Channel Management – Distribution resource planning – Logistics in 21st Century

UNIT III

9

Supply Chain Management: Introduction – Nature and Concept - The need for supply chain – Understanding the supply chain Management – Participants in supply chain – levels of supply chain.

UNIT IV

9

Role of Manager in supply chain – supply chain performance drivers – key enablers in supply chain improvement – Inter – relation between enablers and levels of supply chain management- Systems and Values of Supply Chain.

UNIT V

9

Aligning the supply chain with business strategy – SCOR Model – Supply Chain Relationships- Conflict Resolution Strategies – Certifications.

TOTAL: 45 PERIODS

References:

1. Supply Chain & Logistics Management-KL by Mr.Ishanka Saikia Mr.V.Anandaraj, Dr.S.Ramachandran, S.Kumaran, 2018
2. Martin Christopher, Logistics and Supply Chain Management, FT Publishing, 2016
3. Janat Shah, Supply Chain Management, Pearson Publication, 2016
4. Bowersox, Supply Chain Logistics Management, Tata McGraw Hill Publications, 2018

P18IBMB001		INTERNATIONAL INDUSTRIAL BUYER BEHAVIOR	L	T	P	C
		Total Contact Hours: 45	3	0	0	3
		Course Designed by : Mr Gowtham.D				
COURSE OUTCOMES (COs)						
CO#	COGNITIVE ABILITIES	COURSE OUTCOMES				
CO1	Remembering	Recall the fundamental concepts of Consumer Behavior Theory, Learning; Attitudes attitude change; Globalisation of consumer markets and international market implications, Needs, motivation and involvement				
CO2	Understanding	Summarize the Consumer Buying Process, Models of Consumer Behaviour, Innovation Diffusion and Consumer Adoption Process, Extensive, Limited and Routine Problem Solving Behaviours.				

UNIT I **9**

Consumer Behaviour Theory and its Application to Marketing Strategy; Consumer Buying Process: Extensive, Limited and Routine Problem Solving Behaviours.

UNIT II **9**

Internal Determinants of Buying Behaviour : Individual differences among customers and markets segmentation; Needs, motivation and involvement; information processing and consumer perception; Learning; Attitudes and attitude change; Personality and psychographics (values and life style analysis).

UNIT III **9**

External Determinants of Buying Behaviour: Family and household influence; Reference groups and social class; Culture and subcultures. Models of Consumer Behaviour; Organisational Buying Behaviour: Process, Influence and model.

UNIT IV **9**

Cross-Cultural: Consumer and Industrial Buying Behaviour; Economic demographic and socio-cultural trends and consumer behaviour; Globalisation of consumer markets and international marketing implications.

UNIT V **9**

Innovation Diffusion and Consumer Adoption Process; Diffusion of Innovation Across Nations/Cultures; Consumer Satisfaction and Other Feedbacks; Cross-Cultural Consumer Research – Complexities and issues.

TOTAL: 45 PERIODS

References:

1. The Howard - Sheth Theory of Buyer Behavior by Jagdish N Sheth, 2020
2. Buyer Personas: How to Gain Insight into your Customer's Expectations, Align your Marketing Strategies, and Win More Business by Adele Revella, 2015
3. The Reign of the Customer: Customer-Centric Approaches to Improving Satisfaction, Book by Claes Fornell, David VanAmburg, and Forrest V. Morgeson III, 2017

P18HHMB001		HOSPITAL & HEALTH CARE POLICY & PLANNING	L	T	P	C
		Total Contact Hours: 45	3	0	0	3
		Course Designed by : Ms.G.Vinothini				
COURSE OUTCOMES (COs)						
CO#	COGNITIVE ABILITIES	COURSE OUTCOMES				
CO1	Remembering	Remember the Health & Medical care policy, Historical perspectives,				
CO2	Understanding	Summarize the Health for whom - delivered by whom, -Decision making in health care An analytical approach to health sector reform, The health policy goals, Process structure and functions of planning,				
CO3	Applying	Apply SWOT analysis -The Planning Process -community involvement & people participation in planning.				
CO4	Analyzing	Analyse the causes & consequences of reforms, comprehensive policy analysis, data needs and preconditions-Variations models of health sector, The policy environment & consequences of reforms, Management analysis-Health systems research in relation to planning, Nature of quality, Traditional methods in the management of quality				
CO5	Evaluating	Evaluate Health & hospital services programme evaluation				
CO6	Creating	Create policy formulation.Framework for newer health care policy settlements, Developments in managing health/medical care quality-Variants of audit				

Mapping of Course Outcomes with Program Outcomes

(S/M/L indicates strength of correlation)

S-Strong, M-Medium, L-Low											
1	COs/ POs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
2	CO1	L									
	CO2		L	L		S	L		L		
	CO3	L			M	S					S
	CO4				M	S				M	S
	CO5					S					S
	CO6										S
3	Cate gory		Professional Elective (PE)								
4	Appr oval										

UNIT I ISSUES, THEORIES & CONCEPTS IN POLICY FORMULATION 9

Introduction to Health & Medical care policy - ends & means-Health for whom - delivered by whom-Decision making in health care - process of policy formulation.

UNIT II HOSPITAL AND HEALTH SECTOR REFORMS 9

Introduction to causes & consequences of reforms-An analytical approach to health sector reforms- comprehensive policy analysis, data needs and preconditions-Various models of health sector

UNIT III NATIONAL HEALTH POLICY & FUTURE AGENDA 9

Historical perspectives-The health policy goals-The policy environment & consequences of reforms-Framework for newer health care policy settlements

UNIT IV INTEGRATION OF PLANNING WITH ACTION 9

Process, structure and functions of planning- Management analysis-Health systems research in relation to planning-Health & hospital services programme evaluation-SWOT analysis -The Planning Process -community involvement & people participation in planning.

UNIT V MEDICAL AND CLINICAL AUDIT - TOWARDS QUALITY 9

Nature of quality-Traditional methods in the management of quality-Developments in managing health/medical care quality-Variants of audit

TOTAL: 45 PERIODS

REFERENCES:

1. Peter M Ginter, W. Jack Duncan, Linda E Swayne,'Strategic Management of health care organization'8th edition,Wiley,2017
2. Gupta,'Hospital Administration and Management: A comprehensive guide', Jaypee Brothers Medical Publishers Pvt. Ltd., New Delhi,2016
3. Eric N.Berkonitz, 'Essentials of Health care Marketing' 4th edition, JB learning,2017.
4. Vora, 'Hospital management from service sector perspective' Jaypee Brothers Medical Publishers Pvt. Ltd., New Delhi,2016.
5. Policies and Programmes of Health Care System and Hospital Administration, S.L. Goel, 2010

P18BAMB001	INVESTMENT ANALYSIS AND PORTFOLIO MANAGEMENT		L	T	P	C
	Total Contact Hours: 45		3	0	0	3
	Course Designed by : Ms Indhumathi					
COURSE OUTCOMES (COs)						
CO1	REMEMBER	define Concept, Investment, Speculation& Gambling, Influencing Factors , financial markets, money market and capital markets, git edged Meaning & Concept, Measurements of Risk and Return- Bond Theorem, Valuation of Bond, Preference Shares Portfolio Management Traditional Investment Management				
CO2	UNDERSTAND	Summarize Factors ofInvestmentDecisionMaking, Classification of Risk, Management of Risk. Equity Shares. Concept, Forward Contract-Features, Advantages and Disadvantages Introduction to Modern Portfolio Management				
CO3	APPLY	Apply FinancialDecisionsvsInvestmentDecisions, methods of floating new issues role of primary market secondary market, Concept of Fundamental Analysis-Analysis of Country's Future Contracts-features, Advantages and Disadvantages, CAPM, APT Model, Portfolio Management process,				

CO4	APPLY	Apply Investors Classification, Investment Avenue, Stock Exchanges- Functions, Over the Counter Exchange of India, Concept of Industries, Lifecycle, Markowitz Portfolio Model, Sharpe Model,
CO5	ANAYZE	Analyze Bonds , Preference Shares, Equity Shares, Government Securities, Post office Deposits, Real Estates Trading System- Type of Orders, Settlement, Speculations Study and Analysis of State of the Industry and the Company-technical analysis, dowtheory chart and technical indicators randlom walk theory EMH hypothesis Long and Short Positions, Margin System Portfolio Management Strategies, Portfolio Revision & Evaluation.
CO6	ANALYZE	Analyze Venture Capital, Mutual Fund, Exchange Traded Funds, Life Insurance Trading System-Type of Orders, Settlement, Speculations Characteristics, Company Analysis- Analysis of Financial Statements Options-Call Options, Put Options, Uses of Options.
Category		Professional Elective (PE)
Approval		

Mapping of Course Outcomes with Program Outcomes (S/M/L indicates strength of correlation) S-Strong, M-Medium, L-Low											
	COs /Pos	PO1	PO2	PO3	PO4	PO5	PO 6	PO 7	PO 8	PO9	PO 10
1	CO1	L				M			S		
2	CO2		L				M	S			

3	CO3				M			S	S		
4	CO4					M	M		S		
5	CO5				M			S			L
6	CO6					M	M		^		
3	Cate gory		Professional Core (PC)								
4	App rova l										

UNIT-I

(9)

INTRODUCTION

Concept, Investment, Speculation& Gambling, Influencing Factors of Investment Decision Making, Financial Decisions vs Investment Decisions, Investors Classification, Investment Avenue, Bonds, Preference Shares, Equity Shares, Government Securities, Post office Deposits, Real Estates, Venture Capital, Mutual Fund, Exchange Traded Funds, Life Insurance.

UNIT-II SECURITIES MARKET

(9)

Financial Market- Money Market, Capital Market& Gilt Edge Security Market, Participants in Financial Market. Methods of Floating New Issues, Role of Primary Market and Secondary Market, Stock Exchanges- Functions, Over the Counter Exchange of India, National Stock Exchange of India, Trading System-Type of Orders, Settlement, Speculations.

UNIT-III RISK&RETURNS

(9)

Meaning & Concept, Measurements of Risk and Return-Mean, Standard Deviation& Variance, Classification of Risk, Management of Risk.

INVESTMENT ANALYSIS

Concept of Fundamental Analysis-Analysis of Country's Economic Condition, Study and Analysis of State of the Industry and the Company-Concept of Industries, Lifecycle, Characteristics, Company Analysis- Analysis of Financial Statements.TechnicalAnalysis- Dow'sTheory,ChartsandTechnicalIndicators.RandomWalkModel,EfficientMarketHypothesis(EMH).

UNIT-IV

(9)

VALUATION OF BONDS & EQUITY

Bond Theorem, Valuation of Bond, Preference Shares, Equity Shares.

Concept, Forward Contract-Features, Advantages and Disadvantages, Future Contracts-features, Advantages and Disadvantages, Long andShortPositions,MarginSystem,Options- CallOptions,PutOptions,UsesofOptions.

UNIT-V

(9)

Portfolio Management Traditional Investment Management, Introduction to Modern Portfolio Management, Markowitz Portfolio Model, Sharpe Model, CAPM, APT Model, Portfolio Management process, Portfolio Management Strategies, Portfolio Revision& Evaluation.

TOTAL: 45 PERIODS

REFERENCES

1. PrasannaChandra, "Investment&PortfolioManagement", TataMcGrawHill.
2. Kevin S., " Security Analysis &portfolio Management", PHI Learning.
3. **PUN**IThavathyPandian, "SecurityAnalysisandPortfolioManagement", VikasPublishin g.
4. Fischer& Jordan, " Security Analysis and Portfolio Management", PHI.
5. Charles P Jones, John Wiley., "Investment Analysis and Management".

6. Haugen Roberts., " Modern Investment Theory", PHI.
Alexander, Gordon, Jeffery, and Sharpe Williams., "Fundamentals of Investments".
7. Elton, Gruber, Brown and Goetzmann., "Modern Portfolio Theory and Investment Analysis

Weblink:

1. www.businessstudynotes.com/.../investment-analysis-and-portfolio-management/inves.

P18THMB001		TRAVEL AND TOURISM MANAGEMENT	L	T	P	C
		Total Contact Hours: 45	3	0	0	3
		Course Designed by : Dr.A.Ravikumar				
COURSE OUTCOMES (COs)						
CO#	COGNITIVE ABILITIES	COURSE OUTCOMES				
CO1	Remembering	Recall the Defining Tourist & Tourism, History of Travel (Tourism) - Types of Tourism, Introduction - meaning and definition - types of itineraries, Travel Agency – History - Growth and Development, International Organizations and Tourism - History of Co-operative Endeavour - International Union of Official Travel Organizations - The World Tourism Organization, Pacific Area Travel Association (PATA) - PATA Membership - PATA Chapters, Finance, Functions - PATA and India - International Air Transport Association (IATA) - International Civil Aviation Organization (ICAO) - The Sergeant Committee, functions of tour managers and planning tools for an itinerary				
CO2	Understanding	Understand the Tourism in Modern Period - Nature of Tourism - Tourism: Its Components and Elements - Basic Reasons and Motivation for Travel, Essentials of Travel Agency, Functions of Travel Agency - Setting up of a Travel Agency,				
CO3	Analyze	Analyze the Tourist Information Offices - Ministry of Tourism, Department of Tourism - Tourism Since Independence - India Tourism Development Corporation (ITDC), Organization of Travel - Travel Organizations				
CO4	Analyze	Analyze Functions of tour managers and planning tools for an itinerary, Tour Packaging Management - Concept, Origin and Development of Tour Packaging, Types of Tour - Component of a Standard Package Tour - Factors affecting Tour				

UNIT-I: CONCEPT OF TOURISM

9

Defining Tourist & Tourism, History of Travel (Tourism) - Types of Tourism - Tourism in Modern Period - Nature of Tourism - Tourism: Its Components and Elements - Basic Reasons and Motivation for Travel

UNIT-II: TOUR PACKAGING MANAGEMENT

9

Itinerary Development – Introduction - meaning and definition - types of itineraries - how to develop an effective itinerary - functions of tour managers and planning tools for an itinerary - Tour Packaging Management - Concept, Origin and Development of Tour Packaging - Types of Tour - Component of a Standard Package Tour - Factors affecting Tour Formulation – Tour Designing Process - Significance of Package Tour and Tour Brochure.

UNIT-III: TRAVEL AGENCY AND TRAVEL DOCUMENTS

9

Travel Agency – History - Growth and Development - Essentials of Travel Agency - Functions of Travel Agency - Setting up of a Travel Agency - Organization of Travel - Travel Organizations - Travel Agents in India - Travel Agents Association of India (TAAI) - Travel Documents: Passport and Visas - Formalities Health Customs - Currency Control Foreign Exchange

UNIT-IV: TRAVEL TRADE ORGANIZATIONS / ASSOCIATIONS

9

International Organizations and Tourism - History of Co-operative Endeavour - International Union of Official Travel Organizations - The World Tourism Organization - Pacific Area Travel Association (PATA) - PATA Membership - PATA Chapters, Finance, Functions - PATA and India - International Air Transport Association (IATA) - International Civil Aviation Organization (ICAO) - The Sergeant Committee - Tourist Information Offices - Ministry of Tourism, Department of Tourism - Tourism Since Independence - India Tourism Development Corporation (ITDC)

UNIT-V: FUTURE TOURISM AND HOSPITALITY TRENDS

9

Future Tourism Trends - Future Trends in Hospitality - Future Travel Trends - The Future Guest - Customers Service

Total No. of Periods: 45

References:

1. Tourism: Concepts, Theory and Practice by M.R. Dileep, 2020
2. International Tourism Management by A.K. Bhatia, 2019
3. Tourism Development: Principles & Practices by A K Bhatia, 2020
4. Tourism: Principles and Practices (Oxford Higher Education) by Sampad Kumar Swain and Jitendra Mohan Mishra, 2011
5. Tourism: Operations and Management by Sunetra Roday , Archana Biwal, et al., 2009

P18FIMB002	Credit Appraisal Management		L	T	P	C
	Total Contact Hours: 45		3	0	0	3
	Course Designed by : Ms.J.Pavithra					
COURSE OUTCOMES (COs)						
CO1	Remembering	Recall the basic Concepts and Principles of Credit policy, credit Management, credit allocation and evaluation				
CO2	Understand	Demonstrate the Regulations on NPAs in Banking and Financial Institutions and Norms of credit policy and Types of Credit agreement				
CO3	Understand	Classify the Components of Credit Policy, Government Regulations of Credit Policy in Banks and Financial Institutions				
CO4	Apply	Apply NABARD Initiatives and Loan Default, Segments of loans and advances, Agricultural finance, Crop Loans, Loans for cultivation, Retail Banking Advances				
CO5	Analyze	Analyze by Credit Monitoring & Supervision of the Asset Classification through NPA management and Monitoring of NPAs, Debt Recovery and Restructure Mechanism				
CO6	Evaluate	Evaluate Credit Documentation, Credit Application, Credit Payment Terms, Credit Statements and Security and Renewal of Documents.				

Mapping of Course Outcomes with Program Outcomes (S/M/L indicates strength of correlation) S-Strong, M-Medium, L-Low											
1	COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
2	CO1	S	S			S			S		
3	CO2		S		S		M		S		
4	CO3	S	S			S		M	S	L	
5	CO4				S	S		M			M
6	CO5	S	S		S	S		M			
	CO6		S		S	S			S		M
3	Category		Fundamental Core (FC)								
4	Approval										

UNIT I – INTRODUCTION

9

Concept of Credit Management – Definition of credit – Credit Department – Objectives of credit management – Process and Principles of Credit Management – Principle of Good Lending – Credit Allocation – Credit Evaluation – Post Sanction Review – Monitoring and Supervision – Credit Institutions.

UNIT II – OVERVIEW OF CREDIT POLICY AND ESTIMATION

9

Nature of Credit Policy – Need for credit policy – Components of Credit Policy- Types of Credit agreement – Government Regulations of Credit Policy – Credit policy by Banks and Financial institutions – Banking and Financial Institutions in bringing credit facilities to various sectors – Credit Estimation

UNIT III - CREDIT ANALYSIS AND DOCUMENTATION

9

Credit Analysis – Projections – Feasibility Study – Borrowers Study – Bankers Opinion – Balance Sheet Analysis for Lending – Classification of borrowers – Risk and Return Analysis of loans Analysis – Credit Documentation – Credit Application – Credit Payment Terms – Credit Statements - Security and Renewal of Documents.

UNIT IV – CREDIT MONITORING AND SEGMENTS OF LOANS AND ADVANCES

9

Credit Monitoring – Supervision – Follow up – Follow up Reports – Physical Follow up – Credit Collection – Loan Default – Segments of loans and advances – Agricultural finance – Crop Loans – Loans for cultivation – Kissan Credit Cards – NABARD Initiatives – Retail Banking Advances – Consumer Credit.

UNIT V – NON PERFORMING ASSET MANAGEMENT

9

NPA Management – identification of NPAs – Asset Classification – Prudential Norms – Regulations on NPAs in Banking and Financial Institutions – NPA Status on Banks and Financial Institutions– Capital Adequacy – Provisioning Norms – Monitoring of NPAs – Debt Recovery and Restructure Mechanisms.

TOTAL: 45 PERIODS

REFERENCES

1. Credit Appraisal & Analysis Of Financial Statements - A Hand Book For Bankers And Finance Managers (R.K.Gupta, Himanshu Gupta), 2019
2. Credit Appraisal & Lending Aspects in Banking Kindle Edition by Archana Avasthi, 2018
3. G.S. Popli and S.K. Puri, Strategic Credit Management in Banks, Prentice Hall of India, 2014.
4. K.R. Subbakrishna and S. Murali Bank Credit Management Himalaya Publishing House 2nd Edition, 2014.
5. Hrishikes Bhattacharya, Credit Appraisal and Lending Decisions, Oxford University Press, 2011.
6. G. Vijayaragavan, Bank Credit Management,, Himalaya Publishing House, 2013
7. S.K. Bagchi, Credit Risk Management Jaico Publishers

P18HRMB002		Industrial Relations and Labour Welfare	L	T	P	C
		Total Contact Hours: 45	3	0	0	3
		Course Designed by : Ms.R.Velanganni				
COURSE OUTCOMES (COs)						
CO#	COGNITIVE ABILITIES	COURSE OUTCOMES				
CO1	Remembering	Define the key theoretical perspectives in industrial relations and how the perspectives shape the practice of industrial relations.				
CO2	Understanding	Summarize the key perspectives of industrial relations regarding the interpretation of conflict and power imbalance between employers and employees and to handle industrial disputes with detailed knowledge of actual organization scenarios and long-term impact of resolutions of both employees and employer.				
CO3	Applying	Develop effective policies and practices with appropriate sensitivity and responsiveness to context, regarding industrial relations at the personal, organisational and national levels and develop an understanding of industrial relations institutions such as Settlement machinery, industrial tribunals and Labour welfare				
CO4	Analyzing	Examine about the legal frame work stipulated under The Minimum Wages Act, 1948, Provident Fund Act 1952 and discover the underlying logic of trade unionism, the structure of the labour movement and the practice of unionism in India.				
CO5	Evaluating	Evaluate the key processes of industrial relations at the workplace level and their relationships to the institutions and evaluate the current and emerging industrial relations trends and debate their impact on the parties, processes and rules of Indian industrial relations				
CO6	Creating	Create new strategies to assemble, interpret and persuasively communicate information to justify decision-making in the performance of key tasks associated with the industrial relations function in organizations (i.e., collective bargaining, ethical code and dispute resolution)				

Mapping of Course Outcomes with Program Outcomes

(S/M/L indicates strength of correlation)

S-Strong, M-Medium, L-Low

1	COs/ POs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
2	CO1			M		S	S				
	CO2			M		S	S	S	S		
	CO3	S	S		S	S	S		S		
	CO4		S			S	S		S	L	L
	CO5		S				S				
	CO6	S	S		S	S	S	S	S		
3	Cate gory		Professional Core (PC)								
4	Appr oval										

UNIT I

9

Industrial Relations – Definition, scope, objectives, factors affecting IR - Approaches to Industrial relations - System of IR in India - Industrial Relations problems in the Public Sector – Codes of conduct - Workers Participation in Management – Concept, objectives, Forms and Levels of Participation.

UNIT II

9

Industrial conflict – Causes for Industrial Conflict, Industrial Disputes Act, 1947:- Definitions of Industry - Authorities under the Act – Procedure, Powers and Duties of Authorities, Impact of Industrial Disputes, Strikes – Typology of strikes, Lockout.

UNIT III

9

Settlement machinery - Conciliation - Conciliation Officer - Board of Conciliation - Court of Enquiry - Labour Court - Industrial Tribunal and National Tribunal and Arbitration, Adjudication Labour Welfare work – importance, concept, scope of labour welfare work facilities under Welfare Funds - Duties of Labour Welfare Officers,

UNIT IV**9**

The Minimum Wages Act, 1948 , Provident Fund Act 1952 and Payment of Gratuity Act 1972- Scope , applicability, minimum gratuity, nomination, rights of Employer and duties of Employee

Trade Unions: Meaning - trade union movement in India - The role of the Trade Unions in Modern Industrial Society of India, functions of trade unions - objectives of important trade unions, The Trade Union Act, 1926, procedure for registration of Trade Union, Grounds for the withdrawal and cancellation of registration, union structure, Rights and responsibilities, Penalties for offences of trade unions, Difference between a registered and a recognized Trade Union, problems of trade unions, future trends of trade union movement in India.

UNIT V**9**

Ethical Codes and Industrial Relations – The code of Discipline, Principle of the Code, Objectives of Code of Discipline, Code of Discipline in Industry. Collective Bargaining – Concept – Importance – Principles, Forms of Collective Bargaining, Process of Negotiations during bargaining.

TOTAL: 45 PERIODS**REFERENCE BOOKS**

1. Industrial Relations and Labour Laws, 7e by S C Srivastava, 2020
2. Industrial Relations and Labour Laws for Managers by Parul Gupta, 2019
3. Industrial Relations and Labour Laws by Piyali Ghosh and Shefali Nandan, 2017
4. Industrial Relations, Trade Unions and Labour Legislation by P.R.N. Sinha, Sinha Indu Bala, et al., 2017

P18MKMB002		CONSUMER BEHAVIOUR	L	T	P	C
		Total Contact Hours: 45	3	0	0	3
		Course Designed by : Mr Gowtham Aashirwad Kumar				
COURSE OUTCOMES (COs)						
CO#	COGNITIVE ABILITIES	COURSE OUTCOMES				

	oval		

UNIT – I: APPROACHES

9

Introduction – Concepts - Approaches to the study of consumer behavior – Significance – Comprehensive models of consumer decision process – Implications of the models on Marketing Decisions - Different buy situations – Programmed and non – programmed buying decisions.

UNIT – II: INTERNAL INFLUENCES

9

Internal influences on consumer behavior – Needs and motives – Personality – Demographic and Psychographics factors – Buyer as perceiver – As learner – Attitude formations – Change of attitude – Influencing factors – Measurement of attitude – Life style influence – Life cycle influence.

UNIT – III: EXTERNAL INFLUENCES

9

External Influences on consumer behavior – Family – Reference group – Social and cultural aspects – Opinion leaders – Role of relationship – Post purchase behavior of consumers.

UNIT – IV: COMMUNICATION STRATEGY

9

Developing communication strategy to influence the adoption process – Strategic marketing decisions in response to consumer behavior – Consumer Decision making process.

UNIT – V: ON – LINE BEHAVIOUR

9

Determinants and framework of On-line buyer behavior – Difficulties and challenges in predicting consumer behavior – Diffusion of Innovation – Managing Dissonance – Emerging Issues.

TOTAL: 45 PERIODS

REFERENCES:

1. Consumer Behaviour by Sarmistha Sarma, 2019
2. Leon G. Schiffman and Leslie Lasar Kanuk, Consumer Behaviour, 12 Edition, Pearson Education, India, 2018
3. Consumer Behaviour 11/e by Schiffman/ Kumar., 2015
4. Consumer Behaviour: The Indian Context (Concepts and Cases) by S. Ramesh Kumar, 2017
5. David L. Laudon & Albert J. Della Bitta - Consumer Behaviour - Tata McGraw Hill Publishing - 2001.
6. J. Paul Peter & Jerry C. Olson - Consumer Behaviour & Marketing Strategy - McGraw Hill - 2004.

7. S.L. Gupta & Smitra Pal - Consumer Behaviour: An Indian Perspective - Sultan Chand - 2001.
8. Assael - Consumer Behaviour - Thomson Learning – 2001
9. Leon G. Schiffman and Leslie Lasar Kanuk, Consumer Behavior, Pearson Education, India, 2002

P18BIMB002	BANK OPERATIONS MANAGEMENT		L	T	P	C
	Total Contact Hours: 45		3	0	0	3
	Course Designed by : Mr Gowtham.D					
COURSE OUTCOMES (COs)						
CO1	Remember	List Banker and Customer – Types of relationship between banker and custome deposit mobilization nature of deposits feature of deposits Negotiable Instruments – Concept of cheques Concept of bank finance – Bank Assets and Liability – objectives of bank management Career In banking – Various cadres – Hierarchy				
CO2	Understand	Illustrate Bankers obligations to the customers classification of depositions Format of Cheque – Classifications of Cheques Analysis of bank profits – Indicators of profitability management of personnel local advisory committee				
CO3	Understand	Demonstrate Rights and Obligations – Rights of lien – Rights of Set off – Rights of appropriation – Rights of Banker concept of advances features of lending Format of Cheque – Classifications of Cheques RBI Policies for liquidity Management – Capital Adequacy Recruitment process – Selection – Training				
CO4	Apply	Apply Know your customer– Banking Ombudsman concept of lending – Features of Lending Crossing of cheques – Endorsement of Cheques Liquidity Management – Objectives of Liquidity Management Promotion – Probationary Officer – Preparation for Bank Exams				
CO5	Apply	Identify principles of Lending - Classification of loans Protection to the collecting banker – Duties of Collection Banks Performance of Banks – CAMEL – Balanced Score Card Coaching – Bank Exam practice papers – CAIIB				
CO6	Apply	Develop Bills of exchange – Definition – Parties – Dishonor of bill – Bank Draft – Salient Features Officers – AGM – DGM				

Category	Professional Elective (PE)
Approval	

Mapping of Course Outcomes with Program Outcomes (S/M/L indicates strength of correlation) S-Strong, M-Medium, L-Low											
	COs /Pos	PO1	PO2	PO3	PO4	PO5	PO 6	PO 7	PO 8	PO9	PO 10
1	CO1	L				M		S			
2	CO2		M				M		M		
3	CO3		M			M		S			
4	CO4						M	S		M	
5	CO5					M			M		
6	CO6						M	S		M	
3	Cate gory		Professional Core (PC)								
4	App rova l										

UNIT I – BANKER & CUSTOMER RELATIONSHIP

9

Banker and Customer – Types of relationship between banker and customer – Bankers obligations to the customers – General and Special Features – Rights and Obligations – Rights of lien – Rights of Set off – Rights of appropriation – Rights of Banker – Know your customer– Banking Ombudsman

UNIT II - MANAGEMENT OF DEPOSITS AND ADVANCES

9

Deposit Mobilization – Nature of deposits – Features of deposits – Classification of deposits – concept of advances – Features of Advances - types of advances – concept of lending – Features of Lending – principles of Lending - Classification of loans

UNIT III – NEGOTIABLE INSTRUMENTS

9

Negotiable Instruments – Concept of cheques – Format of Cheque – Classifications of Cheques – Crossing of cheques – Endorsement of Cheques – Protection to the collecting banker – Duties of Collection Banks – Bills of exchange – Definition – Parties – Dishonor of bill – Bank Draft – Sailable Features.

UNIT IV – BANK FINANCIAL MANAGEMENT

9

Concept of bank finance – Bank Assets and Liability – objectives of bank management – Analysis of bank profits – Indicators of profitability – Liquidity Management – Objectives of Liquidity Management – RBI Policies for liquidity Management – Capital Adequacy – Performance of Banks – CAMEL – Balanced Score Card

UNIT V – CAREER IN BANKING

9

Career In banking – Various cadres – Hierarchy – Management of Personnel – Local Advisory Committee – Recruitment process – Selection – Training – Promotion – Probationary Officer – Preparation for Bank Exams – Coaching – Bank Exam practice papers – CAIIB – Officers – AGM – DGM – Practical aspects of banking career – problems of bank exams – practice tests.

TOTAL: 45 PERIODS

REFERENCES

1. Case Studies : Indian Banks and Banking Operations by Rupal Desai, 2017
2. Banking Operations Management, Bimal Jaiswal, Vikas Publishing House, 2015
3. Banking Operations, Colin Watson, Global Professional Publishing Ltd, 2013
4. Management and Operations Of Co-Operative Banks by Indian Institute of Banking and Finance, 2017

P18LOMB002	LOGISTICS MANAGEMENT	L	T	P	C
	Total Contact Hours: 45	3	0	0	3
	Course Designed by : Ms.A.Jhoney				

COURSE OUTCOMES (COs)		
CO1	REMEMBER	Define the logistics management inventory management and customer satisfaction and the types of logistics organizational structure
CO2	UNDERSTAND	Illustrate on the measure of logistics, customer services, demand forecasting, customer satisfaction and qualitative measures
CO3	UNDERSTAND	Illustrate on the logistics system analysis and design and the logistics planning and strategy
CO4	APPLY	Apply on the logistics strategy and supply chain management meaning and objective, channel design and integrated supply chain management
CO5	APPLY	Apply on the containerization and the transportation of logistics and the various modes of transportation and the transport
CO6	ANALYZE	Analyze on the logistics management information system and intermodal transportation and the role of artificial intelligence on logistics information systems
Category	Professional Elective (PE)	
Approval		

Mapping of Course Outcomes with Program Outcomes											
(S/M/L indicates strength of correlation)											
S-Strong, M-Medium, L-Low											
	COs /Pos	PO1	PO2	PO3	PO4	PO5	PO 6	PO 7	PO 8	PO9	PO 10
1	CO1	M				S			M		
2	CO2		M				S	S			
3	CO3		M			S			M		

4	CO4	M					S	S			
5	CO5					S		S			
6	CO6				L						L
3	Category		Professional Core (PC)								
4	Approval										

UNIT-I

9

Introduction: Logistics Management - Definition - Meaning - Application of Logistics in purchasing - TQM - Inventory Management - Customer Service - Warehousing - Marketing - Types of Logistics Organizational Structures.

UNIT-II

9

Measure of Logistics - Qualitative measures - Demand Forecasting - Materials handling - Customer service - Customer Satisfaction - Quantitative measures - Reliability and Maintainability Factors - Supply Support Factors - Availability Factors - BEP

UNIT-III

9

Logistic System Analysis and Design - Design for Reliability and Maintainability - Design for human factor - Logistic planning - Implementing Logistic Strategy- Supply Chain Management - Definition - Meaning - Objective - Channel design - Integrated Supply chain Management - Pitfalls in SCM.

UNIT-IV

9

Containerization – concepts, types, benefits, types of carriers Transportation – role of transportation in logistics, transportation, selection decision basic modes of transportation – rail, road, water, air, Pipeline – Characteristics of different modes – transport economics– freight management – route planning - Role of ports – ICDs, CONCOR – Global shipping options

UNIT-V

9

Logistics Information System - EDI - Order Cycle - Advanced Order Processing Systems - DSS - AI and ES - Neural Networks - DBMS - LAN - WAN - Applications for integrated Logistics management - Application of Network Analysis Global Logistics - International Distribution Channel Strategies - Management of Export Shipment - Conceptual model for Logistics audit.

TOTAL: 45 PERIODS

REFERENCE BOOKS

1. Integrated Supply Chain and Logistics Management by Rajat K Baisya, 2019
2. Logistics & Supply Chain Management, 5th Edition, Prof. Martin Christopher, FT Publishing International, 2016
3. Logistics Management by Ganapathi and Nandi, 2015
4. Logistics Management, 2nd Edition, V.V Sople Pearson India, 2009
5. Douglas M. Lambert, James R. Stock, Lisa M. Ellram,: Fundamentals of Logistics Management, Singapore, Irwin/ McGraw Hill, International edition 1998.
6. John T Mentzer ed.: Supply Chain Management, A South Asian Reprint India, New Delhi, Sage Publication Ltd., 2001.

P18IBMB002	SALES AND DISTRIBUTION MANAGEMENT	L	T	P	C
	Total Contact Hours: 45	3	0	0	3
	Course Designed by : Mr.R.Bharathvajan				

COURSE OUTCOMES (COs)		
CO1	Remember	Find how organization develop and expand customer relationships and find the factors influencing sales personnel
CO2	Understand	Illustrate various methods of developing, directing, and evaluating sales forces and distribution channels
CO3	Apply	Apply fundamental concepts involving the selling and buying process with particular emphasis on oral, written, and interpersonal communications including sales force
CO4	Analyze	Analyze how organisation conceive, produce, and transfer goods and services to points of consumption.
CO5	Evaluate	Explain Reporting Formats for Primary and Secondary Sales, Monthly Sales Plan, Territory Sales and Coverage Plan, Daily Sales Call Report
CO6	Create	Discuss ethical considerations that occur when making sales and sales management decisions. Develop Sales Training Programmes and Discuss critically about the current and future direction of marketing channels.
Category	Professional Elective (PE)	
Approval		

Mapping of Course Outcomes with Program Outcomes (S/M/L indicates strength of correlation) S-Strong, M-Medium, L-Low											
1	COs/ POs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
2	CO1		M				M	M		L	
	CO2		M			S			M		S

	CO3	M		L				M			
	CO4				M	S					
	CO5				M				M		S
	CO6	M				S	M				S
3	Cate gory		Professional Core (PC)								
4	Appr oval										

UNIT I

9

Nature and scope of Sales Management; Setting and Formulating Personnel; Developing and Conducting Sales Training Programmes; Designing and Administering Compensation Plans.

UNIT II

9

Supervision of Salesmen; Motivating Sales Personnel; Sales Meetings and Sales Contests; Designing Territories and Allocating Sales Efforts; Objectives and Quotes for Sales Personnel.

UNIT III

9

Developing and Managing Sales Evaluation Programme; Sales Cost and Cost Analysis. An overview of Marketing Channels, their structure, Functions and Relationships.

UNIT IV

9

Channel Intermediaries – Wholesaling and Retailing; Logistics of Distribution; Channel Planning, Organisational Patterns in Marketing Channels; Managing Marketing Channels; Marketing Channel Policies and Legal Issues.

UNIT V**9**

Information System and Channel Management; Assessing Performance of Marketing Channels including sales force; International Marketing Channels.

TOTAL: 45 PERIODS**REFERENCES:**

1. Sales and Distribution Management by Krishna K. Havaladar and Vasant M. Cavale, McGraw Hill Education, 2017
2. Sales and Distribution Management, 6e by Richard R. Still, Edward W. Cundiff, et al, Pearson, 2017
3. Sales and Distribution Management by Tapan K. Panda and Sunil Sahadev, Oxford Publishing, 2019
4. Sales and Distribution Management, Dr S. L. Gupta, 2018
5. Sales and Distribution Management by A. Nag, McGraw Hill Education. 2017

P18HHMB002	ORGANISATION AND MANAGEMENT OF HOSPITAL AND HEALTH SYSTEM		L	T	P	C
	Total Contact Hours: 45		3	0	0	3
	Course Designed by : Mr Ravi Mohan					
COURSE OUTCOMES (COs)						
CO1	Remember	Define the concept of hospital and design of hospital buildings and recall on the management of in patient services and other services such as laboratories and find on the various utility services for effective functioning of hospitals				
CO2	Understand	Classify on the various types of hospitals and summarize the history of hospitals and demonstrate on the pharmacy admission and discharge procedure and interpret on the hospital engineering services				
CO3	Apply	Apply on the organizational structure of hospital and develop administration services for various clinical services such as emergency , operation theatre and identify on the management of hazard and safety in a hospital set up.				
CO4	Apply	Develop on the departmentation in hospital and identify the various services in ICUs, Super speciality services, and organize various records				

4	App rova l		

UNIT I INTRODUCTION

9

Concept of Hospitals-Planning and Design of a Hospital (Building & Physical Layout)-Different types of Hospital -History of Hospital Development -Departmentation in Hospital-Organization-Structure-Vertical & Horizontal.

UNIT II MANAGEMENT AND ORGANIZATION OF CLINICAL SERVICES 9

Organization and Administration of various clinical services-Outpatient Services-In-patient Services-Emergency services-Operation Theatre – ICUs - Super Specialty Services including their utilization study-Nursing services.

UNIT III PLANNING & ORGANIZING OF SUPPORT SERVICES 9

Imaging-CSSD-Laboratory-Blood Bank-Medical Records-Mortuary-Pharmacy-Admission & Discharge Procedure- Bio Medical Equipments Planning- Management of Hazard & Safety in a Hospital Setup.

UNIT IV ORGANIZATION AND MANAGEMENT OF UTILITY SERVICES 9

Laundry - Housekeeping- Pest control-Managing the Estate (Hospital Security) -Hospital Engineering Services (Plumbing, Electricity, Civil, A/C, Lifts)-Ambulance Services.

UNIT V EVALUATION OF HOSPITAL & HEALTH 9

Accreditation-Assessing Patient Satisfaction-Techniques of Hospital Services Evaluation-Indicators of Hospital Efficiency & Effectiveness- Current Issues in Hospital Management-Telemedicine, Bio-Medical Waste Management, Organ Transplantation,.

TOTAL: 45 PERIODS

REFERENCES:

1. Hospitals - Facilities Planning & Management by G. D Kunders, McGraw Hill Education, 2017
2. Hospital Management by Mario De Souza, Jaypee Brothers Medical Publishers, 2018
3. Essentials of Hospital Management and Administration by D L Ramachandra, Educreation Publishing, 2018
4. Arnold D. Kalcizony& Stephen M. Shortell - Health Care Management – The Wharton School, University of Pennsylvania – 1998, & revised volume - 2013.
5. B.M Shagarkhar - Organization and Planning of Hospitals – Jaypee Publishing - 2010.
6. Carolyn SemplePiggot - Business Planning for Health Care Management – U.K. Open University – 2000.
7. G.D Kunders – Hospital Facilities Planning and Management – Tata McGraw Hill – 2004.

P18BAMB002	SUPPLY CHAIN RISK ANALYTICS		L	T	P	C
	Total Contact Hours: 45		3	0	0	3
	Course Designed by :Mr Gowtham Aashirwad Kumar					
COURSE OUTCOMES (COs)						
CO#	COGNITIVE ABILITIES	COURSE OUTCOMES				
CO1	Remembering	Recall the concepts of service level policies,Supply capacity extension				
CO2	Understanding	Understand the typologies of risk, Quantifying Risk and Risk Measures, Process flexibility				
CO3	Apply	Apply Supply chain network design				
CO4	Analyze	Analyze Risk mitigation strategies to manage disruptions				

CO5	Create	Create models for demand uncertainty, production distribution model, Models accounting for resource availability uncertainty
CO6	Create	Create Supply chain preparedness for humanitarian and disaster management, Multi-objective models with alternative performance measures, Models for sourcing decisions Information management :models of information sharing

Mapping of Course Outcomes with Program Outcomes (S/M/L indicates strength of correlation) S-Strong, M-Medium, L-Low											
1	COs/ POs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
2	CO1	L									
	CO2		M			M	L		L		
	CO3	L									
	CO4				M	M					
	CO5		M								S
	CO6				M						S

3	Cate gory		Professional Elective (PE)
4	Appr oval		

UNIT-I (9)

MODULE1:INTRODUCTION TO KEY CONCEPTS INSCMANDRISK

- Typologies of risk
- Quantifying risk
- Risk measures

UNIT-II (9)

- Risk model sin SCM-operational risks vs. disruption risks

MODULE2: CUSTOMERANDDEMANDSIDEANALYTICS

- Models for demand uncertainty
- Service level policies

UNIT-III (9)

- Production-distribution model
- Risk mitigation strategies to manage disruptions

MODULE3:SUPPLYSIDEANALYTICS

- Supply chain network design

UNIT-IV (9)

- Models accounting for resource availability uncertainty

- Supply capacity extension
- Process flexibility
- Supply chain preparedness for humanitarian and disaster management

UNIT-V

(9)

MODULE 4: INTEGRATED MODELS FOR MANAGING OPERATIONAL AND DISRUPTION RISKS

- Multi-objective models with alternative performance measures
- Models for sourcing decisions
- Information management :models of information sharing
- TOTAL: 45 PERIODS

REFERENCES

1. Basu G., Ben-Hamida M., Butner K., Cope E., Dao H., Deleris L., Dong J., Helander M., Katircioglu K., Ray B., Torpy J., "Supply Chain Risk Management: A Delicate Balancing Act", White Paper, IBM Global Business Services 2008.
2. Kirkwood C.W., Slaven M.P., Maltz A., "Improving Supply-Chain-Reconfiguration Decisions at IBM". Interfaces 35, 460-473 2005.
3. Sashihara S., "The Optimization Edge "Reinventing Decision Making to Maximize All Your Company's Assets. McGraw-Hill 2011.
4. Tang C.S. "Perspectives in Supply Chain Risk Management", International Journal of Production Economics 103 (2), 451-488, 2006.
5. Fisher M., Raman A., "The New Science of Retailing: How Analytics are Transforming the Supply Chain and Improving Performance". Harvard Business 2010.

Web link:

<https://whatis.techtarget.com/definition/supply-chain-risk-management-SCRM>

P18THMB002		ADVANCED FOOD PRODUCTION MANAGEMENT	L	T	P	C
		Total Contact Hours: 45	3	0	0	3
		Course Designed by : Mr.M R Prakash				
COURSE OUTCOMES (COs)						
CO#	COGNITIVE ABILITIES	COURSE OUTCOMES				
CO1	Remembering	Recall the concepts of Personal Hygiene, Introduction to Indian cuisine – Historical characteristics , Introduction to large scale commercial cooking, use of internet and other technologies in food production, Principles of storage, types of stores , EOQ - reorder levels - Bin cards - form and formats, function of a store manager				
CO2	Understanding	Summarize the concepts of food handling and storage – care - sanitation practices , equipment used - cooking methods - religious influences, Work flow - lay out – stewarding , staffing – indenting – purchasing - production planning, contract catering - Industrial catering				
CO3	Understanding	Institutional catering - out – door catering , new product development, Food purchasing control - food receiving control - food storing and issuing control - food production control - food cost control - food sales control - standard yield - standard portion sizes - standard recipes, Control procedures - inventory procedures				
CO4	Analyze	Analyse the attitude towards work in the kitchen, different ingredients used regional differences , menu planning				
CO5	Analyze	Analyze staff hierarchy - production workflow., layout of dry and cold room - staff hierarchy - guidelines for efficient storage				
CO6	Create	Developing the layout of large quality kitchen				

Mapping of Course Outcomes with Program Outcomes (S/M/L indicates strength of correlation) S-Strong, M-Medium, L-Low											
1	COs/ POs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
2	CO1	M							M		
	CO2		S			S	M				
	CO3		S	M		S	M				
	CO4				L						L
	CO5				L	S					L
	CO6		S								L
3	Cate gory		Professional Elective (PE)								
4	Appr oval										

UNIT – I: KITCHEN HYGIENE

9

Personal hygiene - their importance - food handling and storage – care - sanitation practices - attitude towards work in the kitchen - Introduction to Indian cuisine – History – characteristics - different ingredients used regional differences - equipment used - cooking methods - religious influences.

UNIT – II: KITCHEN MANAGEMENT

9

Work flow - lay out – stewarding – staffing – indenting – purchasing - production planning - new product development - use of internet and other technologies in food production.

UNIT – III: QUANTITY FOOD PRODUCTION

9

Introduction to large scale commercial cooking - contract catering - Industrial catering - Institutional catering - out – door catering - layout of large quality kitchen - menu planning - staff hierarchy - production workflow.

UNIT – IV: FOOD CONTROL MANAGEMENT

9

Food purchasing control - food receiving control - food storing and issuing control - food production control - food cost control - food sales control - standard yield - standard portion sizes - standard recipes.

UNIT – V: STORES MANAGEMENT

9

Principles of storage - types of stores - layout of dry and cold room - staff hierarchy - guidelines for efficient storage - Control procedures - inventory procedures – EOQ - re order levels - Bin cards - form and formats - function of a store manager.

Total No. of Periods: 45

References:

1. Professional Kitchen Management: Kitchen Management by Chef Vinod Singh Negi, Notion Press, 2019
2. Food and Beverage Management by Partho Pratim Seal, Oxford University Press, 2017
3. Food Production Operations, Bali Parvinder S., OUP India, 2014
4. J. Knight, Kotschevar – Quantity Food Production, Planning & Management – H-CBI Publishing Co.
5. David Foskett, Victor Ceserani & Ronald Kinton - The Theory of Catering – 10th edition - 2007.
6. Krishna Arora -” Theory of cookery” - Frank brothers & Company - 6th edition.
7. Thangam E Philip - ” Modern Cookery Volume I” - 4th Edition - 2006

P18FIMB003	FINANCIAL FRAMEWORK AND SYSTEMS		L	T	P	C
	Total Contact Hours: 45		3	0	0	3
	Course Designed by: Dr.A.Geetha					
COURSE OUTCOMES (COs)						
CO#	COGNITIVE ABILITIES	COURSE OUTCOMES				
CO1	Remembering	Recall concepts related to various types of financial services, the framework, role and structure of segments of finance.				
CO2	Understanding	Explain the functioning of Financial System and describe the roles and functions of RBI, NBFCs, NABARD, NHB.				
CO3	Applying	Demonstrate skills to address relevant issues relating to financial services industry, role of World Bank, IMF, ADR & GDR, Microfinance etc.				
CO4	Analyzing	Examine the financial markets and its functioning and the role of Board for Payment and Settlement System, the Board for Financial Supervision, Competition Commission and Foreign Trade policy and Financial regulators.				
CO5	Evaluating	Evaluate the investment options like Mutual Funds, ETF, Assessment of Nav, Foreign Investment and SEBI Guidelines.				
CO6	Creating	Investigate various options and routes for FDI, FII & FPI.				

[illegible]

	POs	1	2	3	4	5	6	7	8	9	10
2	CO1		S			S					
	CO2	S	S			S		S	S	S	S
	CO3	S	S	M	M		L	S	S	S	S
	CO4		S			S		S	S	S	S
	CO5	S	S	M	M	S		S	S	S	S
	CO6		S			S		S	S	S	S
3	Cate gory		Professional Core (PC)								
4	Appr oval										

UNIT I – INTRODUCTION

9

Financial Framework – Need of framework – Importance of regulator for financial institutions – Structure of Regulatory Framework in India – Role of Financial Regulators – Nature of Financial Services – Financial System and Markets – Financial Sector Reforms – Formal and Informal Financial System.

UNIT II – BANKING AND FINANCIAL FRAMEWORK

9

RBI Act 1934 – Regulations of RBI – Regulatory Measures on monetary policy & Fiscal Policy - Regulatory Measures on NBFCs – Regulatory Measures on Financial Inclusion – Regulatory Measures on Capital Adequacy.

UNIT III – QUASI REGULATORY INSTITUTIONS

9

UNIT IV – MUTUAL FUND MANAGEMENT AND SEGMENTS OF FINANCE 9

UNIT V – REGULATION ON FOREIGN INVESTMENTS 9

TOTAL: 45 PERIODS

1. Mahajan, Sanjeev Kumar, Mahajan AnupamaPuri – Financial Administration of India – Prentice Hall of India, 2019
2. Indian Financial Systems and Markets, Siddhartha Saha, McGraw Hill Education, 2017
3. IM Pandey – Venture Capital: The Indian Experience – Prentice Hall of India.
4. D.V. Ingle – Mutual Funds in India – New Century Publication – 1st Edition – 2013
5. ThummuluriSiddaiah – Financial Services – Pearson Education – 4th Edition – 2014
6. S. Gurusamy – Financial Markets and Institutions – McGraw Hill Education.
7. The Indian Financial System: Markets, Institutions and Services, 3rd Edition, Bharathi, Pearson, 2010
8. P. Pandian – Financial Services and Markets – Vikas Publishing House

P18HRMB002		TRAINING AND DEVELOPMENT	L	T	P	C
		Total Contact Hours: 45	3	0	0	3
		Course Designed by : Ms Beena				
COURSE OUTCOMES (COs)						
CO#	COGNITIVE ABILITIES	COURSE OUTCOMES				
CO1	Remembering	To remember the key Training concepts and principles for Training, Learning, and Training Process, Career Development: Concepts – Stages.				
CO2	Understanding	Understand the importance of training and process of Training, Significance role of training, Historical development of Training and Development, Components of learning – Principles of Learning – Learning Theory - reinforcement Principle – Steps in Learning – E – Learning and technology, Career Development Programme – Executive development Programme – Executive development – Objective, Career Management –				
CO3	Applying	Apply the various methods of Training in designing Training Programme, Applying training to organizational effectiveness, Discussion Methods, Case Methods, Role play, Business, Games, In – Basket Exercises, Field Training – Techniques for Training. Computers in Training and Development.				
CO4	Analyzing	Assessing Training needs, Emerging trends and Future Prospects in Training and Development.				
CO5	Evaluating	Evaluate the Training Process, Evaluating Training and Development – Follow up Training.				
CO6	Creating	Design the Training Programme, Preparation of Trainees, Implementation of Training, Employee Development.				

Mapping of Course Outcomes with Program Outcomes											
(S/M/L indicates strength of correlation)											
S-Strong, M-Medium, L-Low											
1	COs/ POs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10

2	CO1	S				S					
	CO2		M			S	M			M	
	CO3	S			S	S					S
	CO4	S			S						S
	CO5			L	S						S
	CO6			L	S	S					S
3	Cate gory		Professional Elective (PE)								
4	Appr oval										

UNIT I

9

Definition of Training – concept features – Significance role of training – Historical development of Training and Development - applying training to organizational effectiveness.

UNIT II

9

Learning: Basic concepts - components of learning – Principles of Learning – Learning Theory - reinforcement Principle – Steps in Learning – E – Learning and technology.

UNIT III

9

Training methods – Lecture Methods, Audio – Visual Aids, using films in Training – Programmed learning – Discussion Methods, Case Methods, Role play, Business, Games, In – Basket Exercises, Field Training – Techniques for Training.

UNIT IV**9**

Training Process – Assessing Training needs – Designing Training Programme – Preparation of Trainees – Implementation of Training – Evaluating Training and Development – Follow up Training

UNIT V**9**

Career Development: Concepts – Stages - Career Development Programme – Executive development Programme – Executive development – Objective, Process - Employee development – Career Management – Computers in Training and Development – Emerging trends and Future Prospects in Training and Development.

TOTAL: 45 PERIODS**References:**

1. Design Thinking for Training and Development by Sharon Boller and Laura Fletcher, Association for Talent Development; 1st Edition, 2020
2. Employee Training & Development by Raymond Noe, McGraw-Hill Education; 8th Edition, 2019
3. Train the Trainer: The Art of Training Delivery (Second Edition), CreateSpace Independent Publishing Platform; 2nd Edition, Skills Converged, 2016

P18MKMB003		SERVICE MARKETING	L	T	P	C
		Total Contact Hours: 45	3	0	0	3
		Course Designed by : Mr.T.Manjini				
COURSE OUTCOMES (COs)						
CO#	COGNITIVE ABILITIES	COURSE OUTCOMES				
CO1	Understanding	Explain the nature of services, and distinguish between products and services				
CO2	Applying	Identify the major elements needed to improve the marketing of services				

CO3	Applying	Develop an understanding of the roles of relationship marketing and customer service in adding value to the customer's perception of a service
CO4	Analyzing	Examine how services marketing principles can be used as a conceptual framework to help managers identify and solve marketing problems.
CO5	Evaluating	Appraise the nature and development of a services marketing strategy
CO6	Creating	Create and Deliver effective a customer-focused service design

Mapping of Course Outcomes with Program Outcomes (S/M/L indicates strength of correlation) S-Strong, M-Medium, L-Low											
1	COs/ POs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
2	CO1		S			S					
	CO2	M	S			S			S		
	CO3					S	M	M		M	
	CO4	M			L	S			S		L
	CO5		S						S	M	
	CO6		S	L		S	M	M	S		
3	Cate gory		Professional Core (PC)								
4	Appr oval										

UNIT – I: INTRODUCTION TO SERVICES MANAGEMENT

Evaluation and Growth of Service Sector Nature and Scope of services – Characteristics – Classification – Expanded Marketing Mix

UNIT – II: FOCUS ON CUSTOMERS

Assessing Service Marketing opportunities—Service triangle—GAP model—Customers expectations and Perceptions of services – Service market segmenting, targeting and selection.

UNIT – III: SERVICE DESIGN

9

Service life cycle – New service Development – Service Blue Printing – Competitive differentiation of Services- SERVQUAL.

UNIT – IV: SERVICE DELIVERY

Service Process – Distributing service, direct distribution – Channel Functions – Channel Selection – Designing communications mix for promoting services.

UNIT – V: MARKETING STRATEGIES FOR DIFFERENT SERVICES

9

Formulating service marketing – Strategies for Health, Hospitality, Tourism, Logistics, Financial Marketing: Meaning – Concept – Functions – Marketing Planning & Implementing Marketing Programmes.

TOTAL: 45 PERIODS

References:

1. Christopher Lovelock, Jochen Wirtz and Jayanta Chatterjee, "Services Marketing", Pearson, New Delhi, 2017
2. Services Marketing: People, Technology, Strategy (Eighth Edition), Jochen Wirtz & Christopher Lovelock, World Scientific Publishing Company, 2016
3. Valaries A. Zeithl & Mary Jo Bitner, "Services Marketing", Tata McGraw Hill, New Delhi, 2014
4. Christopher Lovelock, "Services Marketing", Pearson, New Delhi, 2014
5. Christian Gronroos, "Services Management and Marketing", McMillan, New Delhi, 2014

	INSURANCE CONCEPTS AND SYSTEMS		L	T	P	C
P18BIMB003	Total Contact Hours: 45		3	0	0	3
	Course Designed by : Mr Gowtham.D					
COURSE OUTCOMES (COs)						
CO1	Remember	Recall Meaning of Insurance – Definition Insurance Act 1938 – Features Various policies – policy documents – policy lapse and surrender Types of covers – Marine Claims and recoveries				
CO2	Understand	Explain Nature – Importance – Functions – History of Insurance development and growth of insurance in india Overview of Indian Insurance market Health Insurance contracts – Proposal forms used in health insurance Voyage and transmit – packaging forms				
CO3	Understand	Illustrate Classification of Insurance Nationalization of Insurance Industry growth of insurance business in India – structure of Life Insurance Corporation of India Regulatory structure of health insurance Arranging for cargo Insurance – Types of vessel				
CO4	Apply	Apply Life Insurance and General Insurance – Insurance sector reforms Insurance association – Insurance Councils Postal Life Insurance – structure of postal life insurance Types of health Insurance products products for senior citizens Basic concepts of marine insurance – evolution cover note – policy form – Cargo Insurance coverage				
CO5	Apply	Develop Entry of private players – Insurance contract LIC Act 1956 – Amendment of General Insurance Business Act 1972 Appointment of life insurance agents and their functions – Investment in health insurance and health savings various acts to regulate marine insurance markets				
CO6	Analayze	Analyze overview of insurance policies Insurance Regulatory Development Authority Act Remuneration of agents – customer service and protection – health insurance fraud. International maritime bureau – Maritime Insurance Act				
Category		Professional Elective (PE)				
Approval						

Mapping of Course Outcomes with Program Outcomes (S/M/L indicates strength of correlation) S-Strong, M-Medium, L-Low											
	COs /Pos	PO1	PO2	PO3	PO4	PO5	PO 6	PO 7	PO 8	PO9	PO 10
1	CO1	L					S		S		
2	CO2		L			L		S			
3	CO3				M		S		S		
4	CO4							S		L	
5	CO5						S		S		
6	CO6				M			S			L
3	Cate gory		Professional Core (PC)								
4	App rova l										

UNIT I – INTRODUCTION

9

Meaning of Insurance – Definition – Nature – Importance – Functions – History of Insurance – Classification of Insurance – Life Insurance and General Insurance – Insurance sector reforms – Entry of private players – Insurance contract – overview of insurance policies

UNIT II – LEGAL FRAMEWORK OF INSURANCE

9

Insurance Act 1938 – Features – Development and growth of life and non life insurance industry in India – Nationalization of Insurance Industry – Insurance association – Insurance Councils – LIC Act 1956 – Amendment of General Insurance Business Act 1972 – Insurance Regulatory Development Authority Act

UNIT III – LIFE INSURANCE

9

Overview of Indian Insurance market – growth of insurance business in India – structure of Life Insurance Corporation of India – Postal Life Insurance – structure of postal life insurance – Appointment of life insurance agents and their functions – Remuneration of agents – concept of premium and bonus – types – Various policies – policy documents – policy lapse and surrender

UNIT IV – HEALTH INSURANCE

9

Concept of health insurance – Need and importance – Regulatory structure of health insurance – Health Insurance contracts – Proposal forms used in health insurance - Types of health Insurance products – Investment in health insurance and health savings – products for senior citizens – customer service and protection – health insurance fraud.

UNIT V – MARINE INSURANCE

9

Basic concepts of marine insurance – evolution - various acts to regulate marine insurance markets – International maritime bureau – Maritime Insurance Act – Arranging for cargo Insurance – Types of vessel – Voyage and transmit – packaging forms – cover note – policy form – Cargo Insurance coverage – Types of covers – Marine Claims and recoveries

TOTAL: 45 PERIODS

REFERENCES

1. Understanding the Insurance Industry - 2019 Edition, AM Best, 2019
2. The Fundamentals of Insurance - Theories, Principles and Practices (Hargovind Dayal), Notion Press, 2017
3. Principles Of Risk Managment And Insurance 13th Edition by rejda, PEARSON INDIA, 2017
4. Principles of Risk Management and Insurance (Pearson Series in Finance), by George Rejda and Michael McNamara, 2016
5. P.K. Gupta, (2011), “Insurance and Risk Management”, First Edition, Himalaya Publishing House, Mumbai.
6. P. Periasamy, (2009), Principles and Practice of Insurance”, Second Edition, Himalaya Publishing House, Mumbai.
7. G. Kotreshwar, (2011), “Risk Management-Insurance and Derivatives”, First Edition, Himalaya Publishing House, Mumbai.
8. Alka Mittal – Principles of Insurance and Risk Management – Sulthan Chand and Sons.

P18LOMB003		WAREHOUSING AND INVENTORY MANAGEMENT	L	T	P	C
		Total Contact Hours: 45	3	0	0	3
		Course Designed by: Ms Indhumathi				
COURSE OUTCOMES (COs)						
CO#	COGNITIVE ABILITIES	COURSE OUTCOMES				
CO1	Remembering	Define a Warehouse and recall the concepts relating to types of Warehouse, Functions, Benefits, need &scope of Inventory.				
CO2	Understanding	Explain about Warehouse Mapping, Selection, Role of IT in Warehousing, and types of Inventory.				
CO3	Applying	Implement Warehouse Depot operations, Documentation, RFID/ Bar Coding/ MIS, Management of Inventory & Control techniques and modern trends in Inventory.				
CO4	Analyzing	Examine Warehouse Management Systems, Packaging Equipments, 3PL/4PL, and inventory control techniques like and techniques like JIT- EOQ FIFO - LIFC- ABC analysis - Weighted average Methods, Lead time analysis, Organizational set up for inventory management				
CO5	Evaluating	Appraise about the costs associated with Inventory Standardization and Variety reduction, Evaluation of Performance of Materials Function and Warehouse alternatives.				
CO6	Creating	Investigate about modern trends in Inventory and uses of computers in Inventory.				

Mapping of Course Outcomes with Program Outcomes											
(S/M/L indicates strength of correlation)											
S-Strong, M-Medium, L-Low											
1	COs/ POs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
2	CO1		S						S		

	CO2	S	S	M	S			S	S	M	
	CO3	S	S	M	S			S	S		S
	CO4	S	S		S	M		S	S	M	S
	CO5	S	S					S	S		S
	CO6		S			M		S	S		
3	Category		Professional Core (PC)								
4	Approval										

UNIT – I

9

Definition - Terms and Types of Warehouses - Warehouse mapping & racking - warehouse selection and planning - Warehouse Depot Operation and Documentation

UNIT – II

9

Functions of warehouse - Benefits of warehouse service - Warehousing alternatives - Warehouse site selection - Warehouse management systems Packing and packaging - packing equipments - 3 PL & 4 PL - Definitions and Scope Role of IT in Warehousing - RFID - Bar Coding and Scanning - MIS & Key Performance Indicators

UNIT – III

9

Inventory – Inventory Management - Inventory Control techniques – Need & Scope of Inventory Control - Types of Inventory - Costs Associated with Inventory - Organizational set up for inventory management

UNIT – IV

9

Inventory carrying cost - Inventory holding cost – Profitability - Modern trends in Inventory- MRP- JIT- EOQ FIFO - LIFC- ABC analysis - Weighted average Methods, Lead time analysis, Standardization and Variety reduction

UNIT – V

9

Use of Computers in Inventory Management -Evaluation of Performance of Materials Function - Improvement inventory management - Criteria and methodology of evaluation

TOTAL: 45 PERIODS

Text Books

1. Essentials of Inventory Management, Max Muller, HarperCollins Leadership; 3rd Edition, 2019
2. Warehouse Management with SAP ERP (SAP WM): Functionality and Technical Configuration (3rd Edition) by Martin Murray and Sanil Kimmatkar, 2016
3. Warehouse Management and Inventory Control by Philip M. Price and N. J. Harrison, Access Education, 2015
4. Warehouse Management in SAP S/4HANA: Embedded and Decentralized EWM (2nd Edition), Namita Sachan, Aman Jain, 2020
5. Time, Space & Cost Guide to Better Warehouse Design: A hands-on guide to help you improve the design and operations of your warehouse or distribution center, Maida Napolitano, 2017

P18BMB003	INTERNATIONAL SALES PROMOTION AND BRAND MANAGEMENT		L	T	P	C
	Total Contact Hours: 45		3	0	0	3
	Course Designed by: Mr R Bharthvajan					
COURSE OUTCOMES (COs)						
CO#	COGNITIVE ABILITIES	COURSE OUTCOMES				
CO1	Remembering	Recall concepts related to Sales promotion, meaning, definition, importance and Advertising: Its importance and nature				
CO2	Understanding	Describe Sales promotion techniques, Communication model and Basics of Branding: Importance of branding				
CO3	Applying	Implementing Advertising Campaign: Determining advertising message and copy, Headline, body copy, logo, illustration and layout, Basic Branding concepts -Brand personality, brand image, brand identity, brand equity and brand loyalty, Managing Brand Equity and Loyalty, Brand Building in Different Sectors Customers, industrial, retail and service brands				
CO4	Analyzing	Examining Media planning – media selection and scheduling Advertising through Internet Using advertising agencies – selection, compensation, International Advertising: Complexities and issues, Product vs. corporate branding: Major branding decisions. Brand positioning and re-launch; Brand extension; Brand portfolio				
CO5	Evaluating	Appraising Organization and Evaluation of Advertising Efforts: In-house arrangements, Appraisal of advertising agency, Evaluating Advertising Effectiveness, Enhancing brand image through sponsorship and event management and Country-of-origin effects and global branding				
CO6	Creating	Developing international advertising campaign; Advertising of India products abroad, Brand Creation and Development: Identifying and selecting brand name, Building brand personality, image and identity, Communication for branding, Building brands through Internet, Developing International Brands and Pre-requisites and process, Building Indian brands for global markets.				

Mapping of Course Outcomes with Program Outcomes

(S/M/L indicates strength of correlation)

S-Strong, M-Medium, L-Low											
1	COs/ POs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
2	CO1								S		
	CO2			S				S	S		
	CO3	S	S			S	L	S	S	S	
	CO4	S	S	S	S	S		S	S		S
	CO5		S			S		S	S	S	S
	CO6	S	S	S	S	S		S	S	S	S
3	Cate gory		Professional Core (PC)								
4	Appr oval										

UNIT I

9

Sales promotion, meaning, definition, importance of sales promotion, sales promotion techniques. Advertising: Its importance and nature; Communication model, Developing Advertising Campaign: Determining advertising message and copy - Headline, body copy, logo, illustration and layout; Media planning – media selection and scheduling Advertising through Internet.

UNIT II

9

Organisation and Evaluation of Advertising Efforts: In-house arrangements; Using advertising agencies – selection, compensation and appraisal of advertising agency; Evaluating Advertising Effectiveness International Advertising: Complexities and issues; Developing international advertising campaign; Advertising of India products abroad.

UNIT III

9

Basics of Branding: Importance of branding; Basic Branding concepts -Brand personality, brand image, brand identify, brand equity and brand loyalty; Product vs. corporate branding; Major branding decisions.

UNIT IV

9

Brand Creation and Development: Identifying and selecting brand name Building brand personality, image and identity; Brand positioning and re-launch; Brand extension; Brand portfolio; communication for branding Enhancing brand image through sponsorship and even management.

UNIT V

9

Managing Brand Equity and Loyalty: Brand Building in Different Sectors Customers, industrial, retail and service brands. Building brands through Internet. 8. Developing International Brands: Pre-requisites and process; Country-of-origin effects and global branding; Building Indian brands for global markets.

TOTAL: 45 PERIODS

REFERENCE

1. Strategic Brand Management, 3rd Edition, Alexander Chernev, Cerebellum Press, 2020
2. Strategic Brand Management: Building, Measuring, and Managing Brand Equity, Global Edition 5th Edition, by Kevin Lane Keller, Vanitha Swaminathan, Pearson, 2019
3. Sales Promotion Decision Making by Steve Ogden-Barnes, Business Expert Press, 2016
4. Sales Promotion and Advertising Management, M. Mishra, Himalaya Publishing House, 2011

P18HHMB003		Epidemiology in Medical & Health System Management	L	T	P	C
		Total Contact Hours: 45	3	0	0	3
		Prerequisite: Basic Management in UG level				
		Course Designed by: Ms Beena				
COURSE OUTCOMES (COs)						
CO1	Remember	Recall-Epidemiological concepts, definitions, Concept of health, Objectives & introduction to Occupational health & hazards Hospital infections Definitions – importance				
CO2	Understand	Restate-Health- Definition, indicators, determinants, introduction to nature of Non-communicable diseases, determinants, sources, routes of transmission, Principles of control of infection , objectives & importance of surveillance				
CO3	Apply	Explain-Epidemiological triad & disease transmission, nature, origin determinants and solutions Occupational health & hazards, records/reports maintenance, Record keeping & reports presentation				
CO4	Analyze	Point out- Concepts of infection, disease-Classification of infectious diseases, Roles of national & international organizations in promoting occupational & environmental health, Control measures in wards, operating theatres, laundry, kitchen, , water, special				
CO5	Evaluate	Defend- Disease- Natural History & causes, National infectious disease control/Eradication programmes, National control programmes for Non communicable diseases				
CO6	Evaluate	Criticize- Descriptive -Analytical epidemiological studies, risk surveillance measures				

Mapping of Course Outcomes with Program Outcomes											
(S/M/L indicates strength of correlation)											
S-Strong, M-Medium, L-Low											
1	COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
2	CO1	S		M	S				M		
	CO2		M			M		M		S	
	CO3	S			S				M		M
	CO4			M	S		M			S	

	CO5		M			M	M			S	
	CO6	S			S			M			M
3	Category		Fundamental Core (FC)								
4	Approval										

UNIT I CONCEPT OF HEALTH AND DISEASE & EPIDEMIOLOGICAL METHODS

9

Introduction to Epidemiological concepts, definitions, etc.-Concept of health- Definition, indicators, determinants-Epidemiological triad & disease transmission-Disease- Natural History, causes, etc.- Descriptive epidemiological studies-Analytical epidemiological studies.

UNIT II INFECTIOUS DISEASE EPIDEMIOLOGY

9

Concepts of infection, disease-Classification of infectious diseases- -National infectious disease control/Eradication programmes-introduction to nature of Non-communicable diseases- National control programmes for Non communicable diseases

UNIT III EPIDEMIOLOGY, OCCUPATIONAL SAFETY & ENVIRONMENTAL HEALTH MANAGEMENT

9

Objectives & introduction to Occupational health & hazards- nature, origin determinants and solutions - Roles of national & international organizations in promoting occupational & environmental health

UNIT IV HOSPITAL INFECTIONS CONTROL

9

Hospital infections Definitions - importance, determinants, sources, routes of transmission- Principles of control of infection -Control measures in wards, operating theatres, laundry, kitchen, , water, special units e.g. (ICCU, ICU, Renal units) after discharge, waiting rooms, etc.

UNIT V MAINTENANCE OF SURVEILLANCE, RECORDS & REPORTS

9

Unit objectives & importance of surveillance & records/reports maintenance- -outline& risk surveillance measures - Record keeping & reports presentation

TOTAL: 45 PERIODS

References:

1. G.E.AlanDever - Epidemiology in Health Services Management, (1984) – publication at Maryland – June 1984.
2. G.A.J. Ayliffe, E.J.L. Lawbury, A.N. Geddes - Control of hospitals infection - Chapman & Hall publication – 1997.
3. Roger detels, James Menon, Robert Beaglenole - Textbook of Public Health – Oxford University Press – May 15, 2002.
4. J.E. Park - Preventive & social Medicine by Banarsidas, Bhanot Publication – Published on Feb 2011 – 1st edition – July 1970

P18BAMB003		Pricing and Revenue Management	L	T	P	C
		Total Contact Hours: 45	3	0	0	3
		Prerequisite:				
		Course Designed by : Ms Gomathi				
COURSE OUTCOMES (COs)						
CO1	Remember	Identify the RM Process, Classification and introduction to the models, Single resource Revenue Management, Data, sources, systems, automation-Time-series forecasting and perfect demand segmentation models, concept and the EM technique Competitive Factors: EM technique Competitive Factors, Imperfect segmentation model :Discrete choice models Customer management and strategic purchasing behavior				
CO2	Understand	Classify the Theories of Pricing: Brief review of micro economic and marketing theories on consumer behavior, pricing-Product design, bundling and demand segmentation-Dynamic pricing policies, Markdown policies and liquidations, Pricing with supply constraints, Network RM: Network revenue management, control mechanisms, RM Process management (organizational issues), New Directions in Revenue Management:				
CO3	Apply	Prepare the Examples and simulations, Pricing Policies in Action, Industry implementations and practices, Business Analytics Applications in new industries :Event sales, casinos, Display advertising-Bundling and RM				
CO4	Analyze	Categorize the customized pricing and e-commerce: An Operational Model of RM, Stochastic Inventory Management and the News vendor Model, Linear Programming approach to Revenue Management, Applying network RM to different industries, Implementing a RM System: Solving Revenue Management Problems, Demand Forecasting and Data Analysis, Various case studies related to capacity management in airlines, hotels, car rentals, cruises.				
CO5	Evaluate	Defend the Expected marginal value to control sales, Overbooking, Computational methods in Revenue Management-Performance Measurement,				
CO6	Evaluate	Judge the Estimation techniques-Un constraining fortune observable no-purchases				

Mapping of Course Outcomes with Program Outcomes

(S/M/L indicates strength of correlation)

S-Strong, M-Medium, L-Low

1	COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
2	CO1		L			S			S		
	CO2	S				S	L	S			
	CO3	S		L						L	M
	CO4	S			L			S	S		
	CO5					S		S			M
	CO6					S		S			M
3	Category		Fundamental Core (FC)								
4	Approval										

UNIT-I

(9)

Introduction: Examples and simulations- The RM Process-Classification and introduction to the models, course plan The Theories of Pricing: Brief review of micro economic and marketing theories on consumer behavior and pricing-Product design, bundling and demand segmentation-Dynamic pricing policies

UNIT-II

(9)

Pricing Policies in Action: Markdown policies and liquidations-Pricing with supply constraints-Customized pricing and e-commerce An Operational Model of RM: Stochastic Inventory Management and the News vendor Model - Single resource Revenue Management, expected marginal value to control sales-Overbooking

UNIT-III

(9)

Network RM: Network revenue management, control mechanisms-Linear Programming approach to Revenue Management -Applying network RM to different industries

Implementing a RM System: Solving Revenue Management Problems-Computational methods in Revenue Management-Performance Measurement

UNIT-IV

(9)

Demand Forecasting and Data Analysis :Data, sources, systems, automation-Time-series forecasting and perfect demand segmentation models- Estimation techniques-Un constraining fortune observable no-purchases—concept and the EM technique Competitive Factors: Imperfect segmentation model :Discrete choice models-Customer management and strategic purchasing behavior-RM Process management (organizational issues)

UNIT-V

(9)

Industry Applications: Various case studies related to capacity management in airlines, hotels, car rentals, cruises. Industry implementations and practices New Direction sin Revenue Management: Business Analytics Applications in new industries :Event sales, casinos, Display advertising-Bundling and RM

TOTAL: 45 PERIODS

TEXT BOOK

1. RobertL.Phillips, "PricingandRevenueOptimization", StanfordBusinessBook, 2005.

REFERENCE

1. K.TalluriandG.VanRyzin, "TheTheoryandPracticeofRevenueManagement", Kluwer Academic Publishers, 2004.
2. Metrics for assessing the effectiveness of social media strategies
3. Collecting,analyzing,derivinginsightsfrom,anddashboardsocialmediachatterpractical analyticalandtechnicalskillsthatdifferentiatesyouinanymodernenterprise
4. Practicalanalyticalandtechnicalskillsthatdifferentiatesyouinanymodernenterprise
5. Techniques for sentiment analysis and text analytics
6. Real world social media applications

Weblink:

1. https://www.utdallas.edu/~metin/FuJen/Folios/scpricing_s.pdf

P18THMB003	FOOD SERVICE FACILITIES PLANNING AND MANAGEMENT		L	T	P	C
	Total Contact Hours: 45		3	0	0	3
	Course Designed by : Dr.A.Ravikumar					
COURSE OUTCOMES (COs)						
CO#	COGNITIVE ABILITIES	COURSE OUTCOMES				
CO1	Remembering	Recall the concepts of The planning process - Preliminary planning information prospectus - commissioning planners, Functional planning – Functions - concepts of flow Food service facilities planning – Introduction - Design & layout, Planning: Characteristics – scope – objectives - facilitating production				
CO2	Understanding	Understand the concepts of materials handling - space utilization - maintenance and cleaning - cost control, Work place design:, work place environment - concepts of motion Economy - materials handling				
CO3	Apply	Apply bidding & awarding contracts – constructions,				
CO4	Analyze	Analyse the equipment requirements - space requirements, The feasibility study – Importance - the market survey - site analysis - cost estimates - operating capital - projected income. functional requirements – receiving – storage waste disposal - other requirements - Planning the atmosphere: Atmosphere & mood – color – lighting - acoustics - noise and music - climate control – furnishings - exterior design - advertising & public relations investment in equipment - labour utilization – supervision - flexibility, Equipment requirements: Methods - equipments check list – broilers – griddles – ovens – ranges - steam-jacketed kettles – steamers - ware washing equipments - Waste disposals - equipment selection.total facility size - dining areas - production areas - space calculations - receiving area - storage areas, serving areas dining areas -Layout facilities:Space arrangement – flow - other criteria for layout - layout configurations - relationship charts for layout, layout guides - layout of storage areaslayout of main cooking areas - layout of preparation areas - layout of serving areas - layout of dishwashing areas				
CO5	Evaluate	Space requirements: Introduction - space estimates				

CO6	Create	Developing the concept, developing preliminary plans - preparation of final plans - preparing specifications, Preparing the prospectu, Importance - customer & user characteristics - development of the menu – service – atmosphere - operational characteristics - preparation – cooking – baking - serving – dishwashing - pot & pan washing, Developing work places, designing safe work places

Mapping of Course Outcomes with Program Outcomes (S/M/L indicates strength of correlation) S-Strong, M-Medium, L-Low											
1	COs/ POs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
2	CO1	L				S					
	CO2		L			S	L				
	CO3	L				S					S
	CO4				S	S					S
	CO5										S
	CO6		L								S
3	Cate gory		Professional Elective (PE)								
4	Appr oval										

UNIT-I

9

Food service facilities planning – Introduction - Design & layout - Planning: Characteristics – scope – objectives - facilitating production - materials handling - space utilization - maintenance

and cleaning - cost control - investment in equipment - labour utilization – supervision - flexibility

UNIT-II

9

The planning process - Preliminary planning information – prospectus - commissioning planners - developing the concept - equipment requirements - space requirements - developing preliminary plans - preparation of final plans - preparing specifications - bidding & awarding contracts – constructions - Preparing the prospectus: - Importance - customer & user characteristics - development of the menu – service – atmosphere - operational characteristics - The feasibility study – Importance - the market survey - site analysis - cost estimates - operating capital - projected income.

UNIT-III

9

Functional planning – Functions - concepts of flow - functional requirements – receiving – storage – preparation – cooking – baking - serving – dishwashing - pot & pan washing - waste disposal - other requirements - Planning the atmosphere: Atmosphere & mood – color – lighting - acoustics - noise and music - climate control – furnishings - exterior design - advertising & public relations

UNIT-IV

9

Work place design: Developing work places - work place environment - concepts of motion Economy - materials handling - designing safe work places - Equipment requirements: Methods - equipments check list – broilers – griddles – ovens – ranges - steam-jacketed kettles – steamers - ware washing equipments - Waste disposals - equipment selection.

UNIT-V

9

Space requirements: Introduction - space estimates - total facility size - dining areas - production areas - space calculations - receiving area - storage areas, serving areas dining areas -Layout facilities: Space arrangement – flow - other criteria for layout - layout configurations - relationship charts for layout - layout guides - layout of storage areas - layout of main cooking areas - layout of preparation areas - layout of serving areas - layout of dishwashing areas

Total No. of Periods: 45

References:

1. Foodservice Management- by Design, by Legvold (Author), Salisbury, Association of Nutrition & Foodservice Professionals; 2nd Edition, 2018
2. The Complete Guide to Facility Management, Dan Lowry, CreateSpace Independent Publishing Platform, 2017
3. Foodservice Organizations: A Managerial and Systems Approach 9th Edition, Mary Gregoire, Pearson 2016
4. Foodservice Management: Principles and Practices 13th Edition, June Payne-Palacio Ph.D. RD, Monica, Pearson, 2015
5. Hospitality Facilities Management and Design, David M Stipanuk, Educational Institute of the American Hotel Motel Assoc, 2015

P18FIMB004		WORKING CAPITAL MANAGEMENT	L	T	P	C
		Total Contact Hours: 45	3	0	0	3
		Course Designed by : Ms.J.Pavithra				
COURSE OUTCOMES (COs)						
CO1	REMEMBER	Recall the concepts of working capital and Credit policy and list the Nature of Inventories Facts of cash Management Introduction – trade credit				
CO2	UNDERSTAND	Interpret the Need – determinants of working capital Nature and goals Need to hold inventories Motives of holding cash Accrued expense & deferred income				
CO3	APPLY	Apply Issues in working capital Optimum credit policy objective of inventory management Cash planning Bank finance for working capital				
CO4	APPLY	Apply the credit evaluation of individual accounts Analysis of investment in inventory Inventory management process. Investing surplus cash in marketable securities commercial paper				
CO5	ANALYZE	analyze on Monitoring receivable. Analysis of investment in inventory Investing surplus cash in marketable securities Money market				
CO6	ANALYZE	Analyze on Monitoring receivable Inventory management process. cash Management techniques.				
Category		Professional Elective (PE)				
Approval						

Mapping of Course Outcomes with Program Outcomes (S/M/L indicates strength of correlation) S-Strong, M-Medium, L-Low											
	COs /Pos	PO1	PO2	PO3	PO4	PO5	PO 6	PO 7	PO 8	PO9	PO 10
1	CO1	M			S				M		
2	CO2		L					S			M
3	CO3				S		M			L	
4	CO4	M				M		S			
5	CO5				S		M		M		
6	CO6				S	M		S			M
3	Cate gory		Professional Core (PC)								
4	App rova l										

UNIT – I: INTRODUCTION.

9

Introduction – concepts of working capital – Need – determinants of working capital – Issues in working capital – Estimating – working capital needs.

UNIT – II: ACCOUNTS RECEIVABLE MANAGEMENT

9

Introduction – Credit policy – Nature and goals – Optimum credit policy – credit policy variables – credit evaluation of individual accounts – Monitoring receivable.

UNIT – III: INVENTORY MANAGEMENT.

9

Introduction – Nature of Inventories – Need to hold inventories – objective of inventory management – Inventory management techniques – Analysis of investment in inventory – Inventory management process.

UNIT – IV: CASH MANAGEMENT.

9

Introduction – Facts of cash Management – Motives of holding cash – Cash planning – Managing cash collection and disbursement – Investing surplus cash in marketable securities – cash Management techniques.

UNIT – V: WORKING CAPITAL FINANCE.

9

Introduction – trade credit – Accrued expense & deferred income – Bank finance for working capital – commercial paper – Money market.

TOTAL: 45 PERIODS

References:

1. Working Capital Management & Finance, HIMANSHU GUPTA R.K.GUPTA, Notion Press, 2019
2. WORKING CAPITAL MANAGEMENT: Concepts, Current assets management, Operating cycle, Estimating WC needs, Determinants, Advantages, CHANDRA SEKHAR, 2018
3. MY Khan and PK Jain - Basic Financial Management - Tata McGraw Hill Publication - 3rd Edition - 2017.
4. CASH AND WORKING CAPITAL MANAGEMENT, JAMES ONYANGO, 2017
5. MathurSathish B. - Working Capital Management and Control - New Age International - 2nd Edition – 2013.

P18HRMB004		STRATEGIC HUMAN RESOURCE DEVELOPMENT	L	T	P	C
		Total Contact Hours: 45	3	0	0	3
		Course Designed by : Ms.R.Velanganni				
COURSE OUTCOMES (COs)						
CO1	REMEMBER	Recall the Meaning – Strategic, e- Employee profile, Domestic Vs International HRM, Career Concepts Roles, Need for Coaching, Coaching and Performance.				
CO2	UNDERSTAND	Explain the Vision, Mission and Values, Cultural Dynamics - Culture Assessment, Career stages, Self-Management and Emotional Intelligence..				

CO3	APPLY	Apply the HRD Needs Assessment, e- selection and recruitment, e - training and development, Cross Cultural Education and Training Programs, Career planning and Process, Skills for Effective Coaching, Coaching Effectiveness.
CO4	ANALYZE	Analyze the Importance – Challenges to Organizations, Recent trends, Bench Marking and HRD Audit, e- Performance management and– Issues in employee privacy, HR Issues in International Assignments, Competencies and Career Management, Need for Counseling, Role of HR in Counseling
CO5	EVALUATE	Evaluate the HRD practices – Measures, HRD Program Implementation and Evaluation, Employee surveys online, Leadership and Strategic HR Issues in International Assignments, Competency Mapping Models, Work Stress , Sources – Consequences
CO6	CREATE	Create the Virtual learning and Orientation, Building Multicultural Organization, Career development Models, Stress Management Techniques
Category		Professional Elective (PE)
Approval		

Mapping of Course Outcomes with Program Outcomes (S/M/L indicates strength of correlation) S-Strong, M-Medium, L-Low											
	COs /Pos	PO1	PO2	PO3	PO4	PO5	PO 6	PO 7	PO 8	PO9	PO 10
1	CO1		M			M	M				
2	CO2				S				M	L	
3	CO3	M			S	M					
4	CO4			M					M		

5	CO5	M			S			L			
6	CO6			M			M				L
3	Cate gory		Professional Elective (PE)								
4	App rova l										

UNIT I

9

Meaning – Strategic – Vision, Mission and Values – Importance – Challenges to Organizations – HRD Functions - Roles of HRD Professionals - HRD Needs Assessment - HRD practices – Measures– HRD Program Implementation and Evaluation – Recent trends, Bench Marking and HRD Audit.

UNIT II

9

e- Employee profile– e- selection and recruitment - Virtual learning and Orientation – e -training and development – e- Performance management and– Issues in employee privacy – Employee surveys online.

UNIT III

Domestic Vs International HRM - Cultural Dynamics - Culture Assessment - Cross Cultural Education and Training Programs – Leadership and Strategic HR Issues in International Assignments - Building Multicultural Organization

UNIT IV

Career Concepts – Roles – Career stages – Career planning and Process – Career development Models – Competencies and Career Management – Competency Mapping Models – Equity and Competency based Compensation.

UNIT V

9

Need for Coaching – Career planning and Process – Coaching and Performance – Skills for Effective Coaching – Coaching Effectiveness– Need for Counseling – Role of HR in Counseling–Work Stress – Sources - Consequences – Stress Management Techniques.- - Self Management and Emotional Intelligence.

TOTAL: 45 PERIODS

References:

1. Strategic Human Resource Management, Karen Beaven, Kogan Page; 1st Edition, 2019
2. Strategic Human Resource Management: An international perspective 2nd Edition, Gary Rees , Paul E Smith, SAGE Publications Ltd; 2nd Edition, 2017
3. Robert L. Mathis and John H. Jackson - Human Resource Management - Cengage Learning - 2016.
4. Bernadin - Human Resource Management - Tata McGraw Hill - 2012.
5. Rosemary Harrison - Employee Development – University Press, India Ltd, New Delhi - 2007.
6. Tony Edwards and Chris Rees - International Human Resource Management – Pearson - 2007.

P18MKMB004	SOCIAL MEDIA MARKETING		L	T	P	C
	Total Contact Hours: 45		3	0	0	3
	Course Designed by : Dr.A.Ravikumar					
COURSE OUTCOMES (COs)						
CO#	COGNITIVE ABILITIES	COURSE OUTCOMES				
CO1	Understanding	Explain the evolution of social media marketing and identify related ethical issues to communicate its impact on businesses. Understand how social media fits into the buyer journey and how to integrate it with your other marketing channels				
CO2	Understanding	Demonstrate advanced practical skills in common digital marketing tools such as SEO, SEM, Social media and Blogs				
CO3	Applying	Identify the major social media marketing portals that can be used to promote a company, brand, product, service or person. Making the most of paid social for both driving sales and brand awareness.				
CO4	Analyzing	List the key elements of a digital marketing strategy and analyze how Influencer marketing can help you dramatically amplify your message and grow your audience				
CO5	Evaluating	Evaluate a company's current situation, isolate social media issues and provide solutions by identifying appropriate social media marketing portals to influence consumer and improve the company's reputation.				

CO6	Creating	Create a social media marketing plan and track progress in achieving goals with a variety of measurement tools, services, and metrics.

Mapping of Course Outcomes with Program Outcomes (S/M/L indicates strength of correlation) S-Strong, M-Medium, L-Low											
1	COs/ POs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
2	CO1		S			S					
	CO2							S	S		M
	CO3	S	S		S	S	S	S	S		
	CO4		S		S	S		S	S	S	
	CO5	S		L	S		S	S	S	S	
	CO6		S			S		S	S	S	M
3	Cate gory		Professional Core (PC)								
4	Appr oval										

History and Evolution of Social Media - Social Media Audience and Goals for Social Media Marketing - Implications for Marketers - Social Commerce - Integrated Social Media Campaign - Social Media for Customer Support - How Social Media Supports Search Engine Optimization (SEO) - The Viral Impact of Social Media

UNIT II

9

Social Media Measurement – Competitive Due Diligence - Defining Social Media Goals - The Social Media Conversation - Transparency and Authenticity in Social Media - Engagement is the Name of the Game - Start by Being a Quiet – Enterprise / Small Business - Traditional PR vs Online PR - Online PR for Social Media -Online PR for Search Engine Optimization (SEO)- Social Media for SEO - Paid, Owned, and Earned Social Media.

UNIT III

9

Blogs: Why They Matter - Is Blogging Right for Your Company? - What is Microblogging? - How to Create a Blog - Blogging Platforms - Blogosphere Outreach - Mass Media Driving to Social Media - Advertising in Social Media - Sweepstakes in Social Media - Defining Your Social Media Strategy.

UNIT IV

9

Social Commerce Implementation - Social Gaming - Social Media for B2B - International Social Media Channels - Listening Tools - Management Tools -How to Acquire Followers in Social Media Channels - How to Encourage Positive Chatter in Social Media - Social PR: How Brands Become Publishers- Social Media Threats - Staffing for Social Media – Enterprises.

UNIT V

9

Social Media Metrics - Establishing Goals and Tracking metrics: The Basics of Tracking Social Media - Free Social Media Tools - Paid Enterprise Level Measurement Tools for Social Media - Advanced Metrics and Tracking in Social Media - Technical Issues with Tracking and Measuring Social Media - Using Social Media for Brand Awareness - Using Social Media for Direct Response

TOTAL: 45 PERIODS

References:

1. Ultimate Guide to Social Media Marketing, Eric Butow, Jenn Herman, Stephanie Liu, Amanda Robinson, Entrepreneur Press; Illustrated Edition, 2020

2. Social Media Marketing Mastery 2020, Robert Miller, 2020
3. 500 Social Media Marketing Tips: Essential Advice, Hints and Strategy for Business: Facebook, Twitter, Instagram, Pinterest, LinkedIn, YouTube, Snapchat, and More!, Andrew Macarthy, 2018
4. Social Media Marketing: A Strategic Approach 2nd Edition, Melissa Barker, Donald I. Barker, Nicholas F. Bormann, Debra Zahay, Cengage Learning, 2016
5. Influencer: Building Your Personal Brand in the Age of Social Media, Brittany Hennessy, Citadel, 2018

P18BIMB 004	INSURANCE SYSTEM IN INDIA		L	T	P	C
	Total Contact Hours: 45		3	0	0	3
	Course Designed by : Mr Gowtham.D					
COURSE OUTCOMES (COs)						
CO1	Remember	Recall Basics and Nature of Insurance Re-Insurance – Nature of Re-Insurance risk Health Insurance – Employee Benefits Plans Powers and functions				
CO2	Remember	Define Need for and Importance of Insurance Property Insurance – Liability Insurance Basic principles of Insurance Overview of the <u>Indian Insurance Market</u>				
CO3	Understand	Summarize Players in Life and Non—Life Insurance sector Health Benefit Programs – Pension and Group Scheme IRDA Insurance Regulatory and Development Authority life insurance, general insurance privatisation of insurance				
CO4	Apply	Apply Insurance Functions and Services players in life and non life Life Insurance and Survivor Benefit Programs Amendments to LIC Act 1956 provisions of IRDA act Growth of Insurance Business in India				
CO5	Apply	Identify Elements of Insurance Risk marine fire medical insure Retirement Insurance Programs – Income Tax Planning Amendments to General Insurance Business (Nationalization) Act Personal insurance – Property insurance				

CO6	Apply	Develop Health Insurance Insurance agents, intermediaries and surveyors- Cattle &live stock insurance – Poultry insurance
Category	Professional Elective (PE)	
Approval		

Mapping of Course Outcomes with Program Outcomes (S/M/L indicates strength of correlation) S-Strong, M-Medium, L-Low											
	COs /Pos	PO1	PO2	PO3	PO4	PO5	PO 6	PO 7	PO 8	PO9	PO 10
1	CO1					M		S	S		
2	CO2	L					S		S		
3	CO3		L					S			
4	CO4						S		S		
5	CO5					M		S		L	
6	CO6			S			S		S		
3	Cate gory		Professional Core (PC)								
4	App rova l										

UNIT I INTRODUCTION TO INSURANCE

9

Basics and Nature of Insurance - Need for and Importance of Insurance— Insurance Functions and Services – Elements of Insurance Risk – Players in Life and Non—Life Insurance sector

UNIT II TYPES OF INSURANCE**9**

Re-Insurance – Nature of Re-Insurance risk – Legal Framework of Life and General Insurance- Marine-Fire-Medical insurance –Motor Insurance –Health Insurance.

UNIT III INSURANCE PROGRAMS**9**

Property Insurance – Liability Insurance – Health Insurance – Employee Benefits Plans – Life Insurance and Survivor Benefit Programs – Health Benefit Programs – Pension and Group Scheme – Retirement Insurance Programs – Income Tax Planning.

UNIT IV IRDA**9**

Basic principles of Insurance —IRDA Insurance Regulatory and Development Authority— Powers and functions –Amendments to LIC Act 1956 – Amendments to General Insurance Business (Nationalization) Act regulations issued by IRDA. Insurance agents, intermediaries and surveyors- Provisions of IRDA Act 1999.

UNIT V PROSPECTS OF INSURANCE BUSINESS IN INDIA**9**

Overview of the Indian Insurance Market – Growth of Insurance Business in India- Life insurance –General insurance – privatization of Insurance Industry — Rural insurance in India – Personal insurance – Property insurance –Cattle &live stock insurance – Poultry insurance – Crop insurance

TOTAL: 45 PERIODS**References:**

1. The End of Insurance As We Know It: How Millennials, Insurtech, and Venture Capital Will Disrupt the Ecosystem, Rob Galbraith, 2019
2. Understanding the Insurance Industry - 2019 Edition, AM Best, 2019
3. The Fundamentals of Insurance - Theories, Principles and Practices (Hargovind Dayal), Notion Press, 2017
4. Principles Of Risk Managment And Insurance 13th Edition by rejda, PEARSON INDIA, 2017
5. Principles of Risk Management and Insurance (Pearson Series in Finance), by George Rejda and Michael McNamara, 2016
6. P.K. Gupta, (2011), “Insurance and Risk Management”, First Edition, Himalaya Publishing House, Mumbai.
7. P. Periasamy, (2009), Principles and Practice of Insurance”, Second Edition, Himalaya Publishing House, Mumbai.

8. G. Kotreshwar, (2011), “Risk Management-Insurance and Derivatives”, First Edition, Himalaya Publishing House, Mumbai.
9. Alka Mittal – Principles of Insurance and Risk Management – Sulthan Chand and Sons.

P18LOMB004	EXPORT TRADE AND DOCUMENTATION		L	T	P	C
	Total Contact Hours: 45		3	0	0	3
	Course Designed by : Dr.S.FabiyolaKavitha					
COURSE OUTCOMES (COs)						
CO#	COGNITIVE ABILITIES	COURSE OUTCOMES				
CO1	Understanding	Demonstrate understanding of the uniform practice and rules laid down by the International Chambers of Commerce in respect of Documentary Credits,Documentary Collections and the Incoterm				
CO2	Understanding	Interpret key issues in international trade transactions correctly to avoid the risks posed by improper documentation. Understand the importance of marine insurance and the method of handling damaged or lost cargo claims and the different methods of payment used in international trade.				
CO3	Applying	Identify the role of key government organizations like Customs and Excise, RBI, etc. in facilitating export transactions and the procedure for export and import clearance				
CO4	Analyzing	Analyze documents required for completing export and import transactions, the procedure for export and import clearance				
CO5	Evaluating	Assess payment options, including letter of credit, and select those most appropriate for your operation.				
CO6	Creating	Develop the ability to critically examine the EXIM policy framework and justify the various documents for processing export and import orders..				

Mapping of Course Outcomes with Program Outcomes

(S/M/L indicates strength of correlation)

S-Strong, M-Medium, L-Low											
1	COs/ POs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
2	CO1				S	S			S		
	CO2	S						M	S		
	CO3	S	S			S	S		S		S
	CO4				S				S		S
	CO5						S		S		S
	CO6	S	S		S	S	S	M	S		
3	Cate gory		Professional Core (PC)								
4	Appr oval										

UNIT I 9

Generation of Foreign enquiries, obtaining local quotation and offering to overseas buyers, scrutinizing export order, opening L/C by buyers

UNIT II 9

Export Finance – FOREX – Major Currencies – Exchange Rates, relations and impact – Export Costing and pricing and INCO terms

UNIT III 9

Export packaging – preparation of pre shipment documentation – inspection of export consignment – Export by Post, Road, Air and Sea – Claiming for Export benefit and duty drawbacks

UNIT IV 9

Shipment and shipping documents – Complicated problems in shipments and negotiation of shipping documentation – corporate marketing strategies – 100% EOU and Free Trade Zone – Deemed Export- Export marketing

UNIT V

9

Introduction – EXIM Policy – Customs Act – other acts – relating to export/imports – formalities for commencing – customs formalities – export documentation – project exports - export of services – export of excise able goods – import documentation – clearance of import goods – 100% export oriented units – export processing zones – special economic zones – duty drawback procedure – export/import by post customs house agents – import of different products – import/export incentives – import licenses etc.

TOTAL: 45 PERIODS

References:

1. Export and Import Documentation and Procedures, J Senthilvelmurugan, S Mahalakshmi, MJP Publishers; 1st Edition, 2019
2. Import/Export Guide: How to Get Foreign Buyers and Export Your Products Worldwide, Solomon Ternder (Author, Publisher), Joey Eugene, 2018
3. Mastering Import and Export Management, AMACOM; 3rd Edition, 2017
4. Export Compliance for Beginners, Aralyn Kraft, 2016
5. Managing Import and Export Opportunities and Risks: An Insider's Guide for the Busy Executive 3rd Edition, William C. Shayne (Author), Melvin E. Lazar, International Trade Publishing Co., 2017

P18IBMB004	GLOBAL LEADERSHIP & SKILLS DEVELOPMENT		L	T	P	C
	Total Contact Hours: 45		3	0	0	3
	Course Designed by : Dr.D.Venkatramaraju					
COURSE OUTCOMES (COs)						
CO1	REMEMBER	Recall the Defining and assessing Leadership, Researching, Servant				
CO2	UNDERSTAND	Compare and contrast local and global leadership skills, Compare and contrast local and global leadership skills and characteristics, Situational, Compare and contrast leadership ethics in different cultural				

		settings
CO3	APPLY	Apply to Examine the core aspects of diverse organizations, Assessing and applying leadership theories/models – McGregor, Likert's System.
CO4	ANALYZE	Classify to Assess the value of the presence of organizational and personal ethics, Exploring and analyzing leadership ethics in different cultural settings, Analyzing leadership and teamwork, within a global context.
CO5	EVALUATE	Support to Assess the effect of environments and situations on global leadership skills and characteristics, Examining and assessing leadership ethics, Examine the core aspects of global/international/multicultural organizational cultures,
CO6	CREATE	Create the Participatory/Shared, Assess the future of leadership within a global/international/ multicultural environment.
Category	Professional Elective (PE)	
Approval		

Mapping of Course Outcomes with Program Outcomes (S/M/L indicates strength of correlation) S-Strong, M-Medium, L-Low											
	COs /Pos	PO1	PO2	PO3	PO4	PO5	PO 6	PO 7	PO 8	PO9	PO 10
1	CO1	L				M	M		M		M
2	CO2		M	M			M	S			
3	CO3					M			M	M	M
4	CO4				S			S		M	
5	CO5		M		S			S			
6	CO6	L		M							

3	Cate gory		Professional Core (PC)
4	App rova l		

UNIT-I 9

Defining and assessing Leadership -Compare and contrast local and global leadership skills and characteristics - Assess the effect of environments and situations on global leadership skills and characteristics.

UNIT II 9

Researching, assessing and applying leadership theories/models – McGregor, Likert's System, Situational, Servant, Participatory/Shared

UNIT III 9

Examining and assessing leadership ethics - Compare and contrast leadership ethics in different cultural settings - Assess the value of the presence of organizational and personal ethics

UNIT IV 9

Exploring and analyzing leadership ethics in different cultural settings - Examine the core aspects of global/international/multicultural organizational cultures -Examine the core aspects of diverse organizations

UNIT V 9

Analyzing leadership and teamwork, within a global context. - Assess the core characteristics of a global/international/multicultural team - Assessing and applying conflict management within a global context - Assess the future of leadership within a global/international/ multicultural environment

TOTAL: 45 PERIODS

REFERENCES

1. Leadership: Theory and Practice 8th Edition, Peter G. Northouse, SAGE Publications, Inc, 2018

2. Conscious Leadership: Elevating Humanity Through Business, John Mackey, Steve McIntosh, Portfolio, 2020
3. Leadership: In Turbulent Times, Doris Kearns Goodwin, Simon & Schuster, 2019
4. Global Leadership (Global HRM) 3rd Edition, Mark E. Mendenhall (Editor), Joyce Osland (Editor), Allan Bird (Editor), Gary R. Oddou, 2017

P18HHMB004	QUALITY ASSURANCE AND MANAGEMENT HOSPITALS		L	T	P	C
	Total Contact Hours: 45		3	0	0	3
	Course Designed by : Mr.R.Ramamoorthy					
COURSE OUTCOMES (COs)						
CO#	COGNITIVE ABILITIES	COURSE OUTCOMES				
CO1	Remembering	Recall Craftmanship Concept, Total Quality Control, Introduction to SPC & SQC Mod Quality Control Tools				
CO2	Understanding	Understand ISO 9000-Florence Nightingale & her quality improvement model for health care in 1854, Adopting '5S technique' for quality in housekeeping & support services				
CO3	Analyze	Analyze Quality Assurance in Hospitals, Quality and Patient orientation for total patient satisfaction ,				
CO4	Analyze	Analyze -Six Sigma-Process approach to Quality Management- Process flow Diagrams, Identification of different processes / functions, Critical Elements of Process Control-Process Control Options and Growth,				
CO5	Evaluate	Evaluate Diagnostic services-Nursing service-Housekeeping- Blood bank- Pharmacy- OPD- Surgery- ICU- Canteen- Hospital stores				
CO6	Create	Create Standard Operating Procedures (SOP's)-Preventive Action for Hospital Management processes, -Implementing ISO 9001:2000 Quality Management System Standards in Hospitals –Need, Process, Benefits				

Mapping of Course Outcomes with Program Outcomes (S/M/L indicates strength of correlation) S-Strong, M-Medium, L-Low											
1	COs/ POs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
2	CO1	L									
	CO2		L			S	L				
	CO3				L						M
	CO4				L	S					
	CO5			L					M		M
	CO6										M
3	Cate gory		Professional Elective (PE)								
4	Appr oval										

UNIT I EVOLUTION OF QUALITY MANAGEMENT

9

Craftsmanship concept-Total Quality Control-ISO 9000-Florence Nightingale & her quality improvement model for health care in 1854.-Six Sigma-Process approach to Quality Management- Process flow Diagrams.

UNIT II PROCESS APPROACH TO QUALITY MANAGEMENT IN HOSPITALS 9

Identification of different processes / functions-Diagnostic services-Nursing service-Housekeeping- Blood bank- Pharmacy- OPD- Surgery- ICU- Canteen- Hospital stores

UNIT III QUALITY CONTROL METHODS AND MEASUREMENT SYSTEMS 9

Critical Elements of Process Control-Process Control Options and Growth- Introduction to SPC & SQC Models-Quality Control Tools

UNIT IV QUALITY ASSURANCE METHODS**9**

Quality Assurance in Hospitals-Preparation of Standard Operating Procedures (SOP's)-
Preventive Action for Hospital Management processes

UNIT V QUALITY AND PATIENT SATISFACTION**9**

Quality and Patient orientation for total patient satisfaction –Adopting ‘5S technique’ for quality
in housekeeping & support services-Implementing ISO 9001:2000 Quality Management System
Standards in Hospitals –Need, Process, Benefits

TOTAL: 45 PERIODS**REFERENCES:**

1. HOSPITAL MANAGEMENT AND ADMINISTRATION PRINCIPLES AND PRACTICE INCLUDING LAW (HB 2018) by SUBRAHMANYAM B.V
2. Hospital Management, Mario De Souza, 2018
3. Langabeer, 'Health care operations Management', JB Learning,2015
4. Essentials For Hospital Support Services And Physical Infrastructure by Madhuri Sharma,Jaypee publishers,2010
5. Joshi SK ,'Hospital Administration'jaypee Publishers,2009
6. Opportunities in Hospitals & Healthcare Administrations by Pradeep Bhardwaj,Jaypee publishers,2008.
7. Dr Girdhar J Gyani ,'Handbook of health care quality and patient safety' , Jaypee Publishers,2014
8. Shakti Gupta and Sunil Kant, Hospital Stores Management: An Integrated Approach Jaypee Publications, New Delhi, India,2010.
9. Hospital Operations Management – Compiled by Mahalingam A.
10. Srinivasan, A.V. (ed.), Managing a Modern Hospital, Response Books, New Delhi, 2009
11. Schoedev, Roger G., Operations Management – Decision Making in Operations Function, McGraw Hill, New Delhi, 2007.

2	CO1		S			S					
	CO2							S	S		M
	CO3	S	S		S	S	S	S	S		
	CO4		S		S	S		S	S	S	
	CO5	S		L	S		S	S	S	S	
	CO6		S			S		S	S	S	M
3	Cate gory		Professional Core (PC)								
4	Appr oval										

UNIT - I

(9)

Introduction-The need to measure customer network value- Predictive analytics and social media- Google social media analytics

UNIT – II

(9)

Introduction to social networks-Social network metrics-Social network analysis, homophily, and affiliation

UNIT - III

(9)

Social influence- Analyzing Twitter and Face book- Analyzing Email and Wikis

UNIT - IV

(9)

Sentiment analysis- Hands on session with social media tools-Hands on session, project discussion.

UNIT - V

(9)

Text analytics-Social media ROI-Mobile social web

TOTAL: 45 PERIODS

TEXTBOOK

1. Derek Hansen, Ben Shneider man and Marc A. Smith, “Analyzing Social Media Networks with Node XL: Insights from a Connected World”, Morgan Kaufmann.

Weblink:

1. https://ocw.mit.edu/courses/sloan...networks...notes/MIT15_599F11_lec04.pdf

P18THMB004		Tourism Product	L	T	P	C
		Total Contact Hours: 45	3	0	0	3
		Course Designed by : Dr.A.Ravikumar				
COURSE OUTCOMES (COs)						
CO#	COGNITIVE ABILITIES	COURSE OUTCOMES				
CO1	Remembering	Recall the conceptual and theoretical basis of various tourism products and resources in general				
CO2	Understanding	Understand the nature of different tourism products and the geographical features of India and religions of India				
CO3	Applying	Identify and manage emerging tourist destinations and circuits. Familiarizing the important natural tourism products of India such as Hill stations, Beaches, etc.				
CO4	Analyzing	Analyzing information of countries major wildlife sanctuaries, national parks, biosphere reserves, community reserves, Adventure and ecotourism destinations in India				
CO5	Evaluating	Appraise about archaeological sites in India such as monuments , Temples , Pilgrim Centres, Forts ,Palaces and Museums , Buddhist heritage sites etc				

CO6	Creating	Create, apply, and evaluate marketing strategies for tourism destinations and organizations. Work autonomously and collaboratively to develop scholarly skills including effective research and the critical evaluation and presentation of information related to tourism in written and oral form

Mapping of Course Outcomes with Program Outcomes (S/M/L indicates strength of correlation) S-Strong, M-Medium, L-Low											
1	COs/ POs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
2	CO1		S			S				S	
	CO2		S		M	S			S		S
	CO3	S				S	S	M		S	
	CO4		S		M				S	S	
	CO5	S					S	M	S		S
	CO6	S				S			S		S
3	Cate gory		Professional Core (PC)								
4	Appr oval										

UNIT - I

9

Define Product - Difference with service Industry - Tourism Product – its salient features
 components of Tourism industry - How is this different from other consumer industries? -
 Tourism resources as products.

UNIT – II

9

Socio cultural Resource –I - Architectural Heritage of India - Historical monuments of tourism significance – ancient, medieval and modern – Important historical/archaeological sites – Museum - art galleries and libraries – their location, assets and characteristics.

UNIT – III

9

Socio Cultural Resource-II - Important shrines (4 each) of the Hindus, Buddhist, Jain, Sikh, Muslim, Christians and others - Performing Arts – Classical dance forms and styles, Indian folk dance - classical vocal music guaranties/schools - Handicrafts & Handloom Fairs - and festivals of India.

UNIT – IV

9

National Tourist Resource - Tourist resource potential in mountain with special reference to Himalayas - India's main desert areas, desert safaris and desert festival - Coastal areas, beaches and islands : with special reference to Andaman and Nicobar islands.

UNIT - V

9

Introduction to Marketing - The Concept of marketing, Nature, classification and characteristics of services and their marketing implications - Methodology considerations and pricing of Tour Packing, designing and printing of Tour Brochure

Total No. of Periods: 45

References:

1. Tourism Product Development in China, Asian and European Countries, Yuhua Luo, Jinbo Jiang, Doudou Bi, 2020
2. Tourism Planning and Destination Marketing, Mark Anthony Camilleri, Emerald Group Publishing, 2018
3. Travel Marketing, Tourism Economics and the Airline Product: An Introduction to Theory and Practice, Mark Anthony Camilleri, 2017

4. Tourism Development: Products, Operations And Case Studies, Neetu Sharma, Dinesh Verma, Anita Verma, 2014
5. Tourism Products of India: A National Perspective by Robinet Jacob, 2012

P18FIMB005	MICRO-FINANCE:PERSPECTIVES & OPERATIONS			L	T	P	C
	Total Contact Hours: 45			3	0	0	3
	Prerequisite: Basic Management Subjects in UG Level						
	Course Designed by : Mr.C.Gowtham Chakravarthy						
COURSE OUTCOMES (COs)							
CO1	Remember	Recall the Micro Finance: Introduction An Overview; State Interventions in Rural Credit in India; Micro-Finance in India: Present and Future Financial Product and Services : Introduction Revenue Models of Micro-Finance					
CO2	Understand	Discuss the definitions, Scope and Assumptions; Micro Finance: Lessons from International Experience; NABARD and SHG Micro-Finance Models Financial services –Credit delivery methodologies Profitability, Efficiency and Productivity					
CO3	Understand	Restate the Scope, Achievements and Challenges Bank Linkage Programs; Impact of Micro-Finance; Emerging Issues; Non Financial Services Credit Management Micro Finance and the poor:					
CO4	Apply	Classify the Constraints in Mainstreaming of MFI Impact Assessment and Social Assessment of MFIs Fundamentals of Designing products Loan Repayment Status					
CO5	Analyze	Categorize the Micro Finance and the poor Governance and the Constitution of the Board of various Forms of MFI's; Malegam Committee Sustainable Interest Rate;					
CO6	Evaluate	Justify the a critique- Economic growth and Transformation-Governance and the Constitution of the Board of various Forms of					

Mapping of Course Outcomes with Program Outcomes

(S/M/L indicates strength of correlation)

S-Strong, M-Medium, L-Low											
	COs /Pos	PO1	PO2	PO3	PO4	PO5	PO 6	PO 7	PO 8	PO9	PO 10
1	CO1	S				S		S	S		
2	CO2		M				M	S			
3	CO3	S				S			S		
4	CO4		M		L			S			
5	CO5			L			S			L	
6	CO6				L				S		L
3	Cate gory		Professional Core (PC)								
4	App rova l										

UNIT I—INTRODUCTION

9

Micro Finance: Introduction –Definitions, Scope and Assumptions; Micro Finance: Lessons from International Experience; Micro Finance Services – Scope, Achievements and Challenges – Micro Finance and the poor: A critique- Economic growth and Transformation

UNIT II –SHG & MICROFINANCE

9

An Overview; State Interventions in Rural Credit in India; NABARD and SHG – Bank Linkage Programmes; Constraints in Mainstreaming of MFIs; Governance and the Constitution of the Board of various Forms of MFI's; Micro Finance versus Informal Sources of Lending

UNIT III- MICRO-FINANCE & SHG IN INDIA

9

Micro-Finance in India: Present and Future; Some innovative and Creative Micro-Finance Models; Impact of Micro-Finance; Emerging Issues; Impact Assessment and Social Assessment

of MFIs – Malegam Committee – Microfinance Development Act – RBI regulations on Microfinance – MFI Institutions – SHG Linkage Programme

UNIT IV- FINANCIAL / NON FINANCIAL PRODUCT AND SERVICES 9

Financial Product and Services : Introduction – Financial services –Credit delivery methodologies – Non Financial Services – Fundamentals of Designing products –Sustainable Interest Rate; - MFI Institutions and its products

UNIT V – CREDIT MANAGEMENT 9

Revenue Models of Micro-Finance : Profitability, Efficiency and Productivity – Credit Management – Loan Repayment Status – Repayment of MFIs

TOTAL: 45 PERIODS

REFERENCES :

1. Indian Institute of Banking & Finance “Micro-Finance Perspectives and Operations” – Mcmillan India.
2. DebaduttaK.Panda“ Understanding Microfinance” – Willey India – 2009

P18HRMB005		PSYCHOLOGY FOR MANAGERS	L	T	P	C
		Total Contact Hours: 45	3	0	0	3
		Course Designed by: Ms.Magdalene Peter				
COURSE OUTCOMES (COs)						
CO#	COGNITIVE ABILITIES	COURSE OUTCOMES				
CO1	Remembering	Recall concepts of Scientific Management, Human Relations Schools, and scope & dimensions of Psychology.				
CO2	Understanding	Translate ideas drawn from Hawthorne Experiments, Influences on Industrial Psychology and gender biases in Indian Organization.				
CO3	Applying	Articulate models of how psychology is applied to advertising, Marketing and Consumer Behaviour and ways to combat stress, Monotony, Boredom and Fatigue.				

CO4	Analyzing	Examine the Individual differences and behaviour, Human needs and their implications for a work organization and the method of Performance Appraisal, Personnel Selection & Training and Organizations role in stress.
CO5	Evaluating	Appraise the importance of testing techniques, Psychological and Projective tests, Techniques and Problems of Performance Appraisal, Job Satisfaction and its measurement,
CO6	Creating	Formulate practices for element of creativity in leadership and decision making and methods to improve quality of work life.

Mapping of Course Outcomes with Program Outcomes (S/M/L indicates strength of correlation) S-Strong, M-Medium, L-Low											
1	COs/ POs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
2	CO1								S	S	
	CO2	S	S	S				S	S	S	
	CO3	S	S	S			S	S	S		S
	CO4	S	S	S	S	S	S	S	S	S	S
	CO5		S	S	S	S		S	S	S	S
	CO6	S	S	S					S	S	
3	Cate gory		Professional Core (PC)								
4	Appr oval										

UNIT I

9

Introduction to Industrial Psychology – Definitions & Scope. Major influences on industrial Psychology- Scientific management and human relations schools . Hawthorne Experiments.

UNIT II

9

Individual differences and behaviour, Human needs and their implications for a work organization, Psychology applied to advertising, Marketing and Consumer Behaviour.

UNIT III **9**

Personnel Selection and importance of testing techniques, Psychological and Projective tests, Training Development.

UNIT IV **9**

Performance Appraisal- Techniques and Problems, Job Satisfaction and its measurement, Creativity a work-element of creativity in leadership and decision making.

UNIT V **9**

Organisational Role Stress- Managing stress, Burnout-causes, effect and coping, Gender biasness in Indian organizations, Monotony, Boredom and Fatigue at work places, The Physical surroundings of work place-quality of work life.

TOTAL: 45 PERIODS

References

1. The Rational Manager, Henry Priest, 2019
2. Organizational Psychology for Managers, Stephen R. Balzac, Springer, 2016
3. Psychology For Managers, Shashi K. Gupta & Rosy Joshi, Kalyani Publishers, 2015
4. Thinking, Fast and Slow by Daniel Kahneman, Farrar, Straus and Giroux, 2011

P18MKMB005		ADVERTISING AND SALES PROMOTION	L	T	P	C
		Total Contact Hours: 45	3	0	0	3
		Course Designed by: Dr. Praveen Kumar				
COURSE OUTCOMES (COs)						
CO#	COGNITIVE ABILITIES	COURSE OUTCOMES				
CO1	Remembering	Recall the concepts related to Process of Communication – Wilbur Schramm’s Model, Two step, Flow of Communication and Theory of Cognitive Dissonance				

CO2	Understanding	Describe about the Advertising's Role in the Marketing Process and give Clues for Advertising Strategists
CO3	Applying	Implement Simulation of Primary and Selective Demand, Objective Setting and Market Positioning; Dagmar Approach, Determination of Target Audience, Building of Advertising Programme- Message, Headlines, Copy, Logo, Illustration, Appeal, Layout. Advertising campaign
CO4	Analyzing	Examine the Legal Ethical and Social Aspects of Advertising, Campaign Planning; Media Planning, Rationale of Testing Opinion and Aptitude Tests, Recognition, Recall, Experimental Designs and Electronic Media Buying
CO5	Evaluating	Appraise Budgeting, Selection Compensation and Appraisal of an Agency and Evaluating effectiveness of different promotional strategies.
CO6	Creating	Formulate plans and procedure for Advertising Organization, Advertising V/s Consumer Behaviour, Sales promotion – Role of Creative Strategies, Different methods of sales promotion.

Mapping of Course Outcomes with Program Outcomes (S/M/L indicates strength of correlation) S-Strong, M-Medium, L-Low											
1	COs/ POs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
2	CO1				L				S	S	
	CO2		S			S		S	S	S	
	CO3	L	S	S		S	M	S	S	S	
	CO4		S			S	M	S	S	S	
	CO5		S			S		S	S	S	
	CO6		S	S		S		S	S	S	
3	Cate gory		Professional Core (PC)								
4	Appr oval										

Advertising's Role in the Marketing Process : Legal Ethical and Social Aspects of Advertising; Process of Communication – Wilbur Schramm's Model, Two step Flow of Communication, Theory of Cognitive Dissonance and Clues for Advertising Strategists.

UNIT II

9

Simulation of Primary and Selective Demand – Objective Setting and Market Positioning; Dagmar Approach – Determination of Target Audience; Building of Advertising Programme – Message, Headlines, Copy, Logo, Illustration, Appeal, Layout.

UNIT III

9

Campaign Planning; Media Planning; Budgeting; Evaluation – Rationale of Testing Opinion and Aptitude Tests, Recognition, Recall, Experimental Designs; Advertising Organisation.

UNIT IV

9

Selection Compensation and Appraisal of an Agency; Electronic Media Buying. Advertising campaign Advertising V/s Consumer Behaviour.

UNIT V

9

Sales promotion – Role of Creative Strategies – Different methods of sales promotion – Evaluating effectiveness of different promotional strategies.

TOTAL: 45 PERIODS

REFERENCE:

1. Advertising, Selling & Promotion|First Edition|By Pearson, Ritu Narang, 2020
2. Advertising and Promotion, Chris Hackley, SAGE Publications Ltd, 2017
3. Advertising & Sales Promotion, Pankhuri Bhagat, SBPD Publishing House, 2015
4. Advertising & Sales Promotion, S.A. Chunawalla, Himalaya Publishing House, 2015
5. Advertising and Promotion By George E. Belch and others. Tata Mcgraw Hill Co., 2011

6. Advertising Management with solution manual by Jaishri Jethwaney and Shruti Jauji
Oxford University Press, Chennai.. 2012

P18BIMB 005		COMMERCIAL BANK MANAGEMENT	L	T	P	C
		Total Contact Hours: 45	3	0	0	3
		Course Designed by : Dr.S.FabiyolaKavitha				
COURSE OUTCOMES (COs)						
CO1	REMEMBER	Recall Management principles in Banks Loan Management Customer Service Opportunity for strengthening the banking organization				
CO2	UNDERSTAND	Explain Banking Regulations Interpreting Bank Balance Sheet and Income and Expenditure Statemen Investment Management Private Banks – Functioning Merger & Acquisition				
CO3	APPLY	Interpret Control of the banking sector by RBI Financial Analysis CAR – NPA Analysis Liquidity Management Private Banking				
CO4	APPLY	Apply CRR – SLR-CRAR-REPO Rates Liquidity Ratios – Structural Ratios and Profitability Ratios Profit and Growth				
CO5	APPLY	Apply Provision for NPAs Case Analysis Asset Liability Management Financial Inclusion measures by banks				
CO6	ANALYZE	Analyze Provision for NPAs Case Analysis				
Category		Professional Elective (PE)				
Approval						

Mapping of Course Outcomes with Program Outcomes

(S/M/L indicates strength of correlation)

Private Banks – Functioning – Customer Service – Public Sector Vs Private Sector Banks – Private Banking Analysis – Case Analysis

UNIT V - FINANCIAL INNOVATION AND OPPORTUNITIES FOR BANKS

Opportunity for strengthening the banking organization – Merger & Acquisition – Bank assurance – Technological Innovations – Rural Banking – Financial Inclusion measures by banks

TOTAL: 45 PERIODS

References:

1. Finance And Development: The Role Of International Commercial Banks In The Third World, Michael DaCosta, Routledge, 2020
2. Understanding Commercial Bank Financial Management, MD Kaysher Hamid, Urmi Das, LAP Lambert Academic Publishing, 2019
3. Bank Management and Financial Services, Perry Stinson, Clanrye International, 2019
4. Commercial Bank Management, Singh, Dutta, McGraw Hill Education, 2017
5. Advance Bank Management, IIBF, Macmillan Education India, 2018

P18MKMB005	RETAIL MARKETING AND CRM		L	T	P	C
	Total Contact Hours: 45		3	0	0	3
	Course Designed by : Ms Gomathi					
COURSE OUTCOMES (COs)						
CO#	COGNITIVE ABILITIES	COURSE OUTCOMES				
CO1	Remembering	Remember the fundamental concepts of Retail Marketing and Customer Relationship Management, the concept of CRM				
CO2	Understanding	Understand the concept of retail marketing, strategies to turn first time buyer into a regular customer - strategies to turn a regular customer into a life time customer, Retail Marketing Mix, Store Positioning, Design– Store Layout, Types of Design, Feature Areas, Use of Plano grams, Leveraging Space : In Store Kiosks, Visual Merchandising, Atmospheric, Relationship marketing, CRM and its packages, CRM				

	oval		

UNIT I- OVERVIEW

9

Retail industry and economy – emergence of organized retailing – trends in retail marketing - introduction to retail marketing – wheel of retailing– value of the customer – identification of customer needs- Indian Experience in Retailing – Impact of FDI in Indian Context.

UNIT II- RETAIL MARKET STRATEGY

9

Tactics to get new customers – traditional media in retail marketing –strategies to turn first time buyer into a regular customer - strategies to turn a regular customer into a life time customer- Retail Marketing Mix- --Store Positioning - Definition of retail Market Strategy – Focus on the Customer – nature of Strategic Planning – Preplanning: SWOT – Mission – Goals and objectives –Budget implementation and control.

UNIT III - RETAIL MARKETING MIX

9

Retailing role – retail location strategy – trade area definition– Objectives of a Good Store Design– Store Layout – Types of Design – Feature Areas – Space Planning – Location of Departments -Location of Merchandising within Departments – Use of Plano grams – Leveraging Space : In Store Kiosks – Visual Merchandising — Atmospherics– retail space management-- pricing – retail promotion strategy –seminars and projects.

UNIT IV - CRM- OVERVIEW

9

Relationship marketing – CRM – Components of e-CRM- e-CRM and various CRM Packages – the concept of CRM – strategic imperatives, Strategies for Building customer relationship and terminating customer relationship – Conceptual foundations of CRM — Economics of CRM

UNIT V - CRM IMPLEMENTATION

9

CRM in B-C Markets – CRM in B-B market — product offerings in the CRM market space – contact centers for CRM – The CRM Road Map – Customer retention --Operational Issues in implementing in CRM

TOTAL: 45 PERIODS

References:

1. Retail Marketing Strategy: Delivering Shopper Delight, Constant Berkhout, Kogan Page, 2020
2. Retailing Management : Text and Cases | 6th Edition, Swapna Pradhan, McGraw Hill, 2020
3. Retail Management | Thirteenth Edition | By Pearson, Barry Berman (Author), Joel R Evans (Author), Patrali Chatterjee (Author), Ritu Srivastava, 2017
4. Customer Relationship Management, Nh Mullick, Oxford University Press, 2016
5. Customer Relationship Management: Emerging Concepts, Tools and Applications, Jagdish N Sheth, 2017

P18IBMB005		INTERNATIONAL BUSINESS LAW	L	T	P	C
		Total Contact Hours: 45	3	0	0	3
		Prerequisite: Basic Management in UG level				
		Course Designed by: Ms.J.Pavithra				
COURSE OUTCOMES (COs)						
CO1	Remember	Define- Law in the Business Context, Business Ethics –Meaning – Importance, Importance ,nature and scope of International business, International Business contract – Legal provisions; Payment terms; International sales agreements, provisions relating to preferential treatment to developing countries, regional grouping, subsidies, technical standards, antidumping duties, and other NTBs				
CO2	Understand	Restate- National, Regional and International Contract, Corporate Crime, Identifying ethical dilemmas - resolving ethical dilemmas, Understanding Corporate Governance Employees and Business Ethics, Contract of Enforcement and Dispute Settlement Competition Law: National and International Dimensions. Consumer Law; National and International Dimension				
CO3	Apply	Use- Product Liability, Consumer and Business Ethics and Corporate Social Responsibility, International conventions and trade law; Code and common laws and their implications to business				
CO4	Analyze	Categorize- Tools and techniques of Business Ethics Management, Rights and duties of agents and distributors. International Commercial Arbitration and Enforcement of Foreign Awards				
CO5	Evaluate	Appraise- International contract law Agency Tort, internationalization process and managerial implications, Regulatory Frame work of WTO: Basic principles and charter of GATT/WTO; GATT/WTO				
CO6	Evaluate	Judge- modes of entry into International Business, International Business: Nature and complexities				

Mapping of Course Outcomes with Program Outcomes (S/M/L indicates strength of correlation) S-Strong, M-Medium, L-Low											
1	COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
2	CO1	S	S			M				M	
	CO2		S		M		S	M			S
	CO3			L			S	M			S
	CO4		S					M	L	M	
	CO5	S					S				S
	CO6		S		M				L		
3	Category		Fundamental Core (FC)								
4	Approval										

UNIT I

9

Law in the Business Context – National, Regional and International Contract ,International contract law Agency Tort ,Product Liability, Corporate Crime

UNIT II

9

Introducing Business Ethics –Meaning – Importance. Identifying ethical dilemmas - resolving ethical dilemmas - Tools and techniques of Business Ethics Management - Contextualization of Business Ethics . Understanding Corporate Governance Employees and Business Ethics, Consumer and Business Ethics and Corporate Social Responsibility.

UNIT III

9

Introduction to International Business: Importance ,nature and scope of International business; modes of entry into International Business - internationalization process and managerial implications.

UNIT IV**9**

Legal Framework of International Business: Nature and complexities; International conventions and trade law; Code and common laws and their implications to business; International Business contract – Legal provisions; Payment terms; International sales agreements; Rights and duties of agents and distributors.

UNIT V**9**

Contract of Enforcement and Dispute Settlement; International Commercial Arbitration and Enforcement of Foreign Awards. Regulatory Frame work of WTO: Basic principles and charter of GATT/WTO; GATT/WTO; provisions relating to preferential treatment to developing countries, regional grouping, subsidies, technical standards, antidumping duties, and other NTBs. Competition Law: National and International Dimensions. 8. Consumer Law; National and International Dimension.

TOTAL: 45 PERIODS

REFERENCES

1. Bansal. A.K., Law of Commercial Arbitration, Universal law House, Delhi.
2. Chuah; J., International Trade Law: Questions and Answer Series, Cavendish. London.
3. Chush, J. C. T., Law of International Trade. Sweet and Maxwell, London.
4. Indian Council of Arbitration Case Law on UNCITRAL Model Laws on International Commercial Arbitration. New Delhi.
5. Jain, R., Foreign Exchange Management Law and Practice, Vidhi, New Delhi, 2000

Weblink:

1. <https://www.icsi.edu/docs/webmodules/.../9.5%20International%20Business.pdf>

P18HHMB005	RISK MANAGEMENT & HEALTH INSURANCE	L	T	P	C
	Total Contact Hours: 45	3	0	0	3
	Prerequisite: Basic Management in UG level				
	Course Designed by: Mr Ravi Mohan.				
COURSE OUTCOMES (COs)					

CO1	Remember	List Introduction to Risk and Insurance, Regulation of Insurance & IRDA, The concept of managing Disaster
CO2	Understand	Explain Principles of Insurance, Principles of Health Insurance, Actuarial Principles Principles of Ratemaking, Principles of Reinsurance, Planning Process involved in Disaster management
CO3	Apply	Choose Selection and Implementation of risk management Techniques, Claim-Third Party Administration, Reinsurance Markets
CO4	Analyze	Distinguish Risk Management Techniques, Health Insurance Products-Group Insurance Products, Types of Reinsurance
CO5	Evaluate	Compare Risk Identification and Risk Evaluation, Data Required for Ratemaking, Underwriting and its Considerations, Natural disaster
CO6	Evaluate	Appraise Risk Assessment, Casualty and Property Reinsurance, Issues of Manmade Disaster

Mapping of Course Outcomes with Program Outcomes (S/M/L indicates strength of correlation) S-Strong, M-Medium, L-Low											
1	COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
2	CO1	S					S	M	M		
	CO2	S			S					M	
	CO3		M	M				M			M
	CO4					L	S		M		
	CO5		M	M	S						M
	CO6	S					S			M	
3	Category		Fundamental Core (FC)								
4	Approval										

Introduction to Risk and Insurance-Risk Identification and Risk Evaluation-Risk Management Techniques-Principles of Insurance -Selection and Implementation of risk management Techniques

UNIT II INSURANCE LAW AND REGULATION 9

Insurance Laws-Regulation of Insurance & IRDA-Principles of Health Insurance-Health Insurance Products-Group Insurance Products-Risk Assessment

UNIT III CLAIMS MANAGEMENT 9

Claims Management-Third Party Administration--Actuarial Principles-Principles of Ratemaking-Data Required for Ratemaking

UNIT IV REINSURANCE 9

Principles of Reinsurance-Types of Reinsurance-Casualty and Property Reinsurance-Reinsurance Markets-Underwriting and its Considerations

UNIT V DISASTER MANAGEMENT 9

The concept of managing Disaster-Issues of Manmade and Natural disaster-Planning Process involved in Disaster management.

TOTAL: 45 PERIODS

References:

1. Rajiv Jain and Rakhi Biswas - Insurance Law & Practice - Vidhi Publishers, Delhi – 1st edition 2001, revised 2006.
2. Shailendra K. Singh - Safety & Risk Management - Mittal Publishers – 1998.
3. J. H. Diwan - Safety, Security & Risk Management – Mittal Publishers – 1998.
4. Stephen Ayres & Garmvik – Holbook and Shoemaker - Text Book of critical care – Andhra University.
5. Kenneth Black, Herald. D - Life and Health insurance (13th Edition) — U.K. Open University Press – Sep 17, 1999

P18BAMB005	BUSINESS PROCESS ANALYTICS	L	T	P	C
	Total Contact Hours: 45	3	0	0	3
	Prerequisite: Basic knowledge in Data Analytics from UG.				
	Course Designed by : Dr.S.FabiyolaKavitha				

COURSE OUTCOMES: At the end of the Course, the Student will be able to:

CO₁	Remember	Remember the meaning of BPM & Identification of Business Process, Define Quality management, Recollect the meaning of Transaction monitoring, Recall the Fundamentals of Data analytics & Phases in Data Analytics.
CO₂	Understand	Understand Internal/External Customer requirements & End User requirements, Understand Role of BPO in Process Management, Outline CTQ and demonstrate the approaches of Six Sigma, Summarize the Six Sigma project methodology.
CO₃	Apply	Apply different Operating Models & Process Mapping Techniques, Organize Capacity planning activities, Plan for People management, Apply the various concepts of Six Sigma, Identify the Lean Principles & utilize Kaizen LEAN tools, Experiment the Exploratory Analytics using 'R' programming.
CO₄	Analyze	Analyze the components of Process Management, Examine the Typical Business Processes outsourced, Infer SIPOC & Swim lane diagrams, Categorize the Quality assurance methods, Simplify the Delivery management process, Examine the variation measures (mean, median, mode) & Characteristics of Normal distribution, Examine the Metrics using SPSS: Entering Data & Variable Classification, Test the Correlational Analysis & Visualize Data in R.
CO₅	Evaluate	Differentiate Core Vs Support Processes, Evaluate the Process Mapping Tools, Prioritize Finance management & Transition management, Evaluate the data using tools like T-test, Chi-Square and Correlation.
CO₆	Create	Enable Customer Management and Enhance Knowledge Management.

Mapping of Course Outcomes with Program Outcomes

(S/M/L indicates strength of correlation)

S-Strong, M-Medium, L-Low

	PO₁	PO₂	PO₃	PO₄	PO₅	PO₆	PO₇	PO₈	PO₉	PO₁₀
CO₁	S	S					M	S		
CO₂		S		S	M					S
CO₃	S			S			M	S		
CO₄	S			S				S		S

CO₅		S		S	M			S		
CO₆			-	S			M		-	
	3- Strong, 2- Medium, 1- Low									

UNIT – I: PROCESS MANAGEMENT 9

Process management - Definition-Identification of Business Process - Core Vs Support Processes - Components of Process Management - Understanding Internal/External Customer and End User requirements.

UNIT II: PROCESS MAPPING TECHNIQUES 9

Role of BPO in Process Management- Typical Business Processes outsourced - Operating Models - Process Mapping Techniques – SIPOC - Swim lane diagram- Process Mapping Tools.

UNIT III: QUALITY & DELIVERY MANAGEMENT 9

Quality management - Introduction-Transaction monitoring -Quality assurance methods - Delivery management - Customer Management - Knowledge Management - Capacity planning – People management - Transition management - Finance management.

UNIT IV: BUSINESS PROCESS IMPROVEMENT 9

Meaning of Six Sigma - Application of Six Sigma - Variation measures (mean, median, mode) - Characteristics of Normal distribution – CTQ - Six sigma approaches - DMAIC/DFSSS - Six Sigma project methodology - Introduction to Lean - Lean Principles - Kaizen- LEAN tools.

UNIT V: INTRODUCTION TO DATA ANALYTICS 9

Data Analytics - Fundamentals of Data analytics - Phases in Data Analytics - Types of Data Analytics - Metrics using SPSS – Entering Data – Variable Classification – Using basic tools like T-test, Chi-Square and Correlation – Graphical Interpretation of Results – Exploratory Analytics using ‘R’ programming – Regression – Principal Component Analysis – Correlational Analysis – Visualizing Data in R - Automation of Data Analytics.

TOTAL: 45 PERIODS

References:

1. Anil Maheshwari, Data Analytics. McGraw Hill, 2017.
2. Eric Siegel, Thomas H. Davenport, —Predictive Analytics: The Power to Predict Who Will Click,

- Buy, Lie, or Diel, Wiley, 2013.
3. T N Srivastava, Shailaja Rego, Statistics for Management Paperback, 2017.
 4. Albright S and Winston.L., Business Analytics : Data Analysis and Decision Making 5th Edition, Cengage Learning, 2015.
 5. Manas A. Pathak, Beginning Data Science with R, Springer, 2014
 6. Thomas Mailund, Beginning Data Science in R: Data Analysis, Visualization, and Modeling for The Data Scientist, A press, 2017.
 7. Zur Muehlen, M., and Shapiro, R. "Business Process Analytics," in: vom Brocke, J.; Rosemann,M. (eds.): Handbook on Business Process Management (Vol. 2), Springer Verlag, Berlin et al.,2010
 8. Weske, Mathias: Business Process Management. Springer Verlag, 2007, ISBN9783540735212
 9. Dumas, M., La Rosa, M., Mendling, J., Reijers, H. - Fundamentals of Business Process Management, Springer, 2018
 10. Ravi Anupindi, Sunil Chopra, Sudhakar Deshmukh, Jan Van Mieghem, Eitan Zemel - Managing Business Process Flows, 3e Paperback – Pearson, 2013.

P18THMB005	INTERNATIONAL TOURISM MANAGEMENT		L	T	P	C
	Total Contact Hours: 45		3	0	0	3
	Course Designed by : Dr.A.Ravikumar					
COURSE OUTCOMES (COs)						
CO#	COGNITIVE ABILITIES	COURSE OUTCOMES				
CO1	Remembering	Recall the functions of travel agency, IATA, and find relationships between tourism and the environments in which it operates, and relate the connection this has to contemporary issues in sustainable tourism development				
CO2	Understanding	Understanding of Pro – Active and its’ importance of Tourism Policies. Interpret and evaluate tourism as a phenomenon and as a business system. Illustrating the Travel accounting procedures towards the tourist agencies and their functions for developing managerial skills.				
CO3	Applying	Identify and assess relationships and networks relative to building tourism capacity. Apply relevant technology for the production and management of tourism experiences.				

UNIT I **9**

Globalization & tourism sector globalization & the business world - the tourism industry, challenges - Factors affecting global & regional tourist movements - demand and origin factors - destination & resource factors - Contemporary trends in international tourist movements.

UNIT II **9**

The emergence of international hotels & tourisms - Historical aspects - development of chains - development abroad - airline connection - Political aspects of the international travel - tourism – Barriers to travel - tourism investment & business – regulations - international organizations dealing with barriers viz: WTO, IMF, IHA, need for government support of tourism - national tourism organizations - political stability - travel advisories - political risk - crisis management.

UNIT III **9**

International hotels – Balancing global and local perspectives – Operating in a multinational environment – International rules & regulations – a brief study - Human resources & cultural diversity - cultural perceptions - business protocol - cultural considerations in negotiations.

UNIT IV **9**

International tourism sales & marketing – Market research - developing an international marketing strategy - understanding various travel distribution systems viz GDS - product positioning.

UNIT V **9**

Global competition & the future – Long-term tourism growth trends - tourism growth in major regions - transportation developments - technology & automation - Development issues - tourism and the environment.

Total No. of Periods: 45

References:

1. Tourism: Concepts, Theory and Practice by M.R. Dileep, 2020
2. International Tourism Management by A.K. Bhatia, 2019
3. Tourism Development: Principles & Practices by A K Bhatia, 2020
4. Tourism: Principles and Practices (Oxford Higher Education) by Sampad Kumar Swain and Jitendra Mohan Mishra, 2011
5. Tourism: Operations and Management by Sunetra Roday , Archana Biwal, et al., 2009

P18FIMB006		CORPORATE FINANCE	L	T	P	C
		Total Contact Hours: 45	3	0	0	3
		Course Designed by: Mr. Ravi Mohan				
COURSE OUTCOMES (COs)						
CO#	COGNITIVE ABILITIES	COURSE OUTCOMES				
CO1	Remembering	Recall concepts related to Issue of Shares – Features –Various Kinds, Meaning of Venture Capital, Types of Venture Capital, Auditing – Meaning and objectives – Types of Audit.				
CO2	Understanding	Describe about the Forfeiture of Share – Reissue of shares – Redemption of Preference shares, Issue of Preference Shares, Redemption of Debentures and Salient Features of the GST Model				
CO3	Applying	Demonstrate knowledge about Accounting for amalgamation of companies, Absorption – Accounting procedures for absorption				
CO4	Analyzing	Examine the process for Reconstruction – Internal – External, Reconstruction Schemes, Inter Company Holdings, Liquidation of Companies, Venture capital in India and Goods and Services Tax (GST) – Objectives of GST				

CO5	Evaluating	Appraise the Methods of Venture Capital, Necessity for GST – Levy & Collection Underwriting of Shares and Debentures, Audit Process – Audit Programme – Internal Audit
CO6	Creating	Formulate Audit Procedure – Audit of Limited Companies -Recent trends in Auditing

Mapping of Course Outcomes with Program Outcomes (S/M/L indicates strength of correlation) S-Strong, M-Medium, L-Low											
1	COs/ POs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
2	CO1							M	S		
	CO2	S	S			S	S				
	CO3	S	S		S	S	S		S	S	
	CO4	S	S	L	S	S	S	M	S	S	L
	CO5	S	S		S	S	S		S		
	CO6	S	S			S			S	S	
3	Cate gory		Professional Core (PC)								
4	Appr oval										

UNIT I – ISSUE OF SHARES AND DEBENTURES

9

Issue of Shares – Features –Various Kinds - Forfeiture of Share – Reissue of shares - Underwriting of Shares and Debentures – Redemption of Preference shares – Issue of Preference Shares – Redemption of Debentures.

UNIT II – AMALGAMATION AND ABSORPTION 9

Accounting for amalgamation of companies – Absorption – Accounting procedures for absorption

UNIT III – RECONSTRUCTION AND LIQUIDATION 9

Reconstruction – Internal – External – Reconstruction Schemes – Inter Company Holdings – Liquidation of Companies

UNIT IV – VENTURE CAPITAL 9

Meaning of Venture Capital – Types of Venture Capital – Methods of Venture Capital – Venture capital in India.

UNIT V – AUDITING & GST CONCEPTS 9

Auditing – Meaning and objectives – Types of Audit – Audit Process – Audit Programme – Internal Audit – Audit Procedure – Audit of Limited Companies – Recent trends in Auditing. Goods and Services Tax (GST) – Objectives of GST – Salient Features of the GST Model - Necessity for GST – Levy & Collection.

TOTAL: 45 PERIODS

REFERENCES

1. Fundamentals of Corporate Finance | Third Edition | By Pearson, Jonathan Berk, Peter DeMarzo, 2019
2. Fundamentals of Corporate Finance, Stephen A. Ross, Randolph W. Westerfield, McGraw Hill Education, 2018
3. Principles of Corporate Finance, Richard A. Brealey, Stewart C. Myers, McGraw Hill Education, 2018
4. Corporate Finance, Stephen A. Ross, Randolph W. Westerfield, McGraw Hill Education, 2017
5. Corporate Finance: Text and Cases, S. R. Vishwanath, SAGE Publications India Pvt Ltd, 2019

P18HRMB006		ORGANISATIONAL DEVELOPMENT	L	T	P	C
		Total Contact Hours: 45	3	0	0	3
		Course Designed by : Dr.S.FabiyolaKavitha				
COURSE OUTCOMES (COs)						
CO#	COGNITIVE ABILITIES	COURSE OUTCOMES				
CO1	Remembering	Remember the concepts of OD, Characteristics, Interpersonal and Group Process Approach, Organizational Approach, HRM Interventions and Organizational Culture, Approaches to OD, Characteristics of OD Interventions, Effectiveness of OD Interventions				
CO2	Understanding	Understand the foundation process of OD, Approaches to OD, Performance Management, Career Planning, Strategic and Techno Interventions, work design and redesign, Strategic and Techno Structural Interventions, Role of an OD Consultant- Dealing with Consultant – Client Relationships, Ethical Issues in OD, Learning Organization and Organizational Effectiveness -Significance of Learning Organization to Organizational effectiveness				
CO4	Analyzing	Analyse the growth and relevance of OD, Diagnoses for OD, Foundations Process of OD, Overview of types of Interventions				
CO3	Applying	Designing OD Interventions, Organizational Restructuring, Organizational transformation, Socio-technical systems, Quality circles, Employee Involvement, Total Quality Management				
CO5	Evaluating	Evaluation and Institutionalization of OD Interventions – Importance, Process and Difficulties Involved				
CO6	Creating	Establishing Learning Dynamics in Organizations- Building a Learning Organization				

[illegible]

	POs	1	2	3	4	5	6	7	8	9	10
2	CO1	M	S		S						
	CO2		S	S	S	S			S		
	CO3					S			S		
	CO4	M			S	S			S	L	L
	CO5				S						L
	CO6				S						L
3	Cate gory		Professional Elective (PE)								
4	Appr oval										

UNIT I

9

Introduction to Organization Development - Growth and relevance of OD- Diagnoses for OD, Foundations Process of OD- Approaches to OD

UNIT II

9

Designing OD Interventions - Characteristics of OD Interventions, Overview of types of Interventions, - Interpersonal and Group Process Approaches- Organization Process Approaches- HRM Interventions- Performance Management- Career Planning & Development Interventions

UNIT III**9**

Strategic and Techno Structural Interventions -Organizational Restructuring, Organizational transformation, work design and redesign, Socio-technical systems, Quality circles, Employee Involvement, Total Quality Management

UNIT IV**9**

Organization Culture- A Sociological Perspective, Socialization Processes -Effectiveness of OD Interventions: Evaluation and Institutionalization of OD Interventions – Importance, Process and Difficulties Involved- Role of an OD Consultant- Dealing with Consultant – Client Relationships, Ethical Issues in OD

UNIT V**9**

Learning Organization and Organizational Effectiveness -Significance of Learning Organization to Organizational effectiveness- Establishing Learning Dynamics in Organizations- Building a Learning Organization

TOTAL: 45 PERIODS

References:

1. Change Management and Organizational Development, Ratan Raina, SAGE Publications Pvt. Ltd, 2018
2. Assessment and Diagnosis for Organization Development: Powerful Tools and Perspectives for the OD Practitioner, William J Rothwell, Productivity Press, 2017
3. Organization Development:Behavioral Science Interventions For Organizational Improvement | Sixth Edition | By Pearson, French Wendell L, Bell Jr Cecil H, 2017
4. Organizational Change and Development, Mukherjee, Pearson Education India, 2015

P18MKMB006	BRAND MANAGEMENT	L	T	P	C
	Total Contact Hours: 45	3	0	0	3

		Course Designed by : Mr.T.Manjini
COURSE OUTCOMES (COs)		
CO1	REMEMBER	Recall the branding concept, its challenges and opportunities and the Choosing brand elements to build brand equity Developing a brand equity measurement and management system Designing and implementing branding strategies Measuring Brand Performance
CO2	UNDERSTAND	Explain on brand equity concept; strategic brand management process; designing marketing programs to build brand equity establishing brand equity management system; brand-product matrix, brand hierarchy, Brand Equity Management - Global Branding strategie
CO3	APPLY	Apply customer based brand equity; building a strong brand and its implications; integrating marketing communication to build brand equity measuring sources of brand equity introducing and meaning new products and brand extensions Brand Audit
CO4	ANALYZE	Analyze customer based brand equity; information processing model communication, marketing communication options, capturing custom mindset: measuring outcomes of brand equity; capturing mark performance. Brand Adoption Practices – Different type of brand exten Brand Equity Measurement
CO5	EVALUATE	Evaluate building a strong brand and its implications; identifying and establishing brand positioning leveraging secondary brand knowledge to build brand equity: conceptualizing the leveraging process, country of origin Factors influencing Decision for extension –managing brands over time: Brand Leverage -Role of Brand Managers–
CO6	CREATE	Create identifying and establishing brand positioning; defining a establishing brand values; internal branding. co-branding, licensin celebrity endorsement, sporting, cultural and other events. co-brandin licensing, celebrity endorsement, sporting, cultural and other even Branding challenges & opportunities – current trends and issues in bra management- Case Studies
Category		Professional Elective (PE)
Approval		

Mapping of Course Outcomes with Program Outcomes (S/M/L indicates strength of correlation) S-Strong, M-Medium, L-Low											
	COs /Pos	PO1	PO2	PO3	PO4	PO5	PO 6	PO 7	PO 8	PO9	PO 10
1	CO1		M				S		S		
2	CO2			M		M		M		M	
3	CO3				M		S				
4	CO4		M			M		M	S		
5	CO5	L		M						M	
6	CO6				M		S		S		
3	Cate gory		Professional Core (PC)								
4	App rova l										

UNIT-I

9

Branding concepts; branding challenges and opportunities; brand equity concept; strategic brand management process; customer based brand equity; building a strong brand and its implications; identifying and establishing brand positioning; defining and establishing brand values; internal branding.

UNIT-II

9

Choosing brand elements to build brand equity; designing marketing programs to build brand equity; integrating marketing communication to build brand equity: information processing model of communication, marketing communication options, leveraging secondary brand knowledge to build brand equity: conceptualizing the leveraging process, country of origin; co-branding, licensing, celebrity endorsement, sporting, cultural and other events.

UNIT-III

9

Developing a brand equity measurement and management system: establishing brand equity management system; measuring sources of brand equity – capturing customer mindset: measuring outcomes of brand equity; capturing market performance.

UNIT-IV

9

Designing and implementing branding strategies: brand-product matrix, brand hierarchy, introducing and meaning new products and brand extensions; Brand Adoption Practices – Different type of brand extension – Factors influencing Decision for extension –managing brands over time: managing brands over geographic boundaries and market segments. Re-branding and re-launching.

UNIT-V

9

Measuring Brand Performance – Brand Equity Management - Global Branding strategies- Brand Audit – Brand Equity Measurement – Brand Leverage -Role of Brand Managers– Branding challenges & opportunities – current trends and issues in brand management- Case Studies.

TOTAL: 45 PERIODS

Reference Books

1. Strategic Brand Management: Building, Measuring, and Managing Brand Equity, Global Edition, Kevin Keller, Pearson, 2019
2. Brand Management: Co-creating Meaningful Brands, Michael Beverland, SAGE Publications Ltd, 2018

3. Product and Brand Management, SIA Publishers & Distributors Pvt Ltd, 2019
4. Product and Brand Management, Tapan K. Panda, Oxford University Press, 2016
5. Strategic Brand Management | Fourth Edition | By Pearson, Keller/ Parameswaran/ Jacob, Pearson Education India, 2015

P18BIMB006		RETAIL AND CRM IN BANKING	L	T	P	C
		Total Contact Hours: 45	3	0	0	3
		Course Designed by : Ms Gomathi				
COURSE OUTCOMES (COs)						
CO#	COGNITIVE ABILITIES	COURSE OUTCOMES				
CO1	Remembering	Recall the role within the bank operations, Retail Products Overview, Customer Relationship Management, Stages in customer relationship management process				
CO2	Understanding	Understand the History and Definition, Retail Products offered by Banks, . Regulation and compliance – KYC Norms				
CO3	Apply	Apply of retailing concepts distinction between Retail and Corporate / Wholesale Banking				
CO4	Analyze	Analyze Retail Products offered by Banks, Customer requirements, Products development process, Liabilities and Assets Products / Description of Liability products, Description of Asset Products, . Important Asset Products, Retail Strategies, Role and impact of customer relationship management, Trends in retailing - New products like Insurance Demat services, online / Phone Banking, Property services, Investment advisory Wealth management, Reverse Mortgage - Growth of e-banking, Cross selling opportunities.				
CO5	Evaluate	Evaluate Approval process for retail loans, Credit scoring, Tie-up with Institutions for Personal loans / Credit cards / Educational loans, with OEMs / Authorised Dealers for Auto / Vehicle loans, and with Builders / Developers for Home loans Delivery Channels - Branch				
CO6	Evaluate	Create Extension counters,. Selling Process in retail products-Direct Selling Agents.				

Mapping of Course Outcomes with Program Outcomes (S/M/L indicates strength of correlation) S-Strong, M-Medium, L-Low											
1	COs/ POs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
2	CO1	L							L		
	CO2		L			M					
	CO3	L									S
	CO4				S	M					S
	CO5				S						S
	CO6	L									S
3	Cate gory		Professional Elective (PE)								
4	Appr oval										

UNIT I

9

History and definition, role within the bank operations, Applicability of retailing concepts distinction between Retail and Corporate / Wholesale Banking

UNIT II

9

Retails Products Offered By Banks - Retail Products Overview - Customer requirements, Products development process, Liabilities and Assets Products / Description of Liability products, Description of Asset Products, Approval process for retail loans, Credit scoring. Important Asset Products

UNIT III

9

Retail Strategies; Tie-up with Institutions for Personal loans / Credit cards / Educational loans, with OEMs / Authorised Dealers for Auto / Vehicle loans, and with Builders / Developers for Home loans Delivery Channels - Branch, Extension counters,. Selling Process in retail products-Direct Selling Agents

UNIT IV

9

Customer Relationship Management - Role and impact of customer relationship management, Stages in customer relationship management process. Regulations and compliance – KYC Norms

UNIT V

9

Trends in retailing - New products like Insurance, Demat services, online / Phone Banking, Property services, Investment advisory / Wealth management, Reverse Mortgage - Growth of e-banking, Cross selling opportunities.

TOTAL: 45 PERIODS

References:

1. Retail Liability Products and Other Related Services, Indian Institute of Banking and Finance, Macmillan Publishers India Private Limited, 2017
2. Retail Banking Technology, Suresh Samudrala, Jaico Publishing House, 2015
3. Customer Relationship Management in Banking Industry, Sateesh Hari, LAP Lambert Academic Publishing, 2015

P18LOMB006	INTERNATIONAL MARKETING			L	T	P	C
	Total Contact Hours: 45			3	0	0	3
	Course Designed by : Dr.A.Ravikumar						
COURSE OUTCOMES (COs)							
CO#	COGNITIVE ABILITIES	COURSE OUTCOMES					

CO1	Remembering	Recall the fundamental concepts of International Marketing, Export Licensing, Contract Manufacturing Joint Ventures, International Promotional Mix, Advertising and other modes of communication, Roles and Functions, Export Procedures, certificates related to shipments, documents related to payment, documents related to inspection, , documents related to excisable goods, An overview of International market management process, International marketing orientation, International Market Entry Strategies , Legal dimensions in International Marketing (Role of WTO)
CO2	Understanding	Summarize the Nature and Importance of International Marketing, EPRG Approach, Product Designing, Product Standardization Vs Adaptation, International Trade Product Life Cycle, International Distribution channels, their roles and functions, selection and management of overseas agents, International Distribution Logistics, India's Foreign Trade Policy – Direction and composition of India's Foreign Trade, International marketing Environment, International Product and pricing strategies, planning for Trade Fairs and Exhibitions, Direction and composition of India's Foreign Trade, Managing International Distribution and Promotion: Distribution Channel Strategy, Managing product line
CO3	Analyzing	Analyse the pricing for international markets factors affecting international price determination price quotation and terms of sale
CO4	Analyzing	Analyse the International marketing segmentation and positioning, Screening and selection of markets, Export – Import policy of current year. Grouping in the world, Marketing research for identifying opportunities in International Markets
CO5	Evaluating	Evaluate the Emerging trends in International Marketing; regionalism Vs Multilateralism: Trade Block
CO6	Creating	Create New Product Development, setting up of wholly owned subsidiaries abroad , Alliances

Mapping of Course Outcomes with Program Outcomes											
(S/M/L indicates strength of correlation)											
S-Strong, M-Medium, L-Low											
1	COs/ POs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
2	CO1	M	S			S			M		
	CO2		S			S	M				
	CO3					S				L	

	CO4				L	S				L	
	CO5					S			M	L	L
	CO6										L
3	Category		Professional Elective (PE)								
4	Approval										

UNIT I

9

International marketing, meaning , Nature and importance, International marketing orientation: EPRG – Approach; An overview of International marketing management process , International marketing Environment, International marketing segmentation and positioning ; Screening and selection of markets, International Market Entry Strategies – Export licensing, Contract manufacturing Joint Ventures M&A, setting up of wholly owned subsidiaries abroad , Alliances

UNIT II

9

International Product and pricing strategies ; Product Designing ; Product Standardization Vs Adaptation; Managing product line , International Trade Product life cycle , New product development , pricing for international markets factors affecting international price determination price quotation and terms of sale

UNIT III**9**

Managing International Distribution and Promotion: Distribution Channel Strategy – International Distribution channels, their roles and functions, selection and management of overseas agents, International Distribution Logistics; planning for Trade Fairs and Exhibitions, International Promotion Mix – Advertising and other modes of communication

UNIT IV**9**

India's Foreign Trade Policy – Direction and composition of India's Foreign Trade, Export – Import policy of current year – Export procedures, certificates related to shipments, documents related to payment, documents related to inspection, documents related to excisable goods.

UNIT V**9**

Emerging trends in International Marketing; regionalism Vs Multi Lateralism: Trade Block – Grouping in the world – Legal dimensions in International Marketing (Role of WTO) – Marketing research for identifying opportunities in International Markets

TOTAL: 45 PERIODS

References:

1. International Marketing, 18th Edition, Phillip R. Cateora, R. Bruce Money, McGraw-Hill, 2019
2. International Marketing, Francis Cherunilam, Himalaya Publishing House, 2016
3. International Marketing, 15th Edition, Phillip R. Cateora, R. Bruce Money, McGraw-Hill, 2017
4. International Marketing, Srinivasan R, PHI Learning Private Limited, 2016

P18IBMB006	CROSS CULTURAL MANAGEMENT	L	T	P	C
	Total Contact Hours: 45	3	0	0	3
	Course Designed by : Mr Ravi Mohan.				
COURSE OUTCOMES (COs)					
CO1	Demonstrate understanding of culture and cultural differences in the workplace, identify the desirable competencies for an effective global manager, demonstrate cultural sensitivity and emotional intelligence in business and the workplace.				
CO2	Understanding of the changing global business environment, emerging business and cross cultural issues, and implications for management. Understand differences in cross cultural leadership styles and adaptability to cultural contexts.				
CO3	Apply problem solving strategies to cross cultural issues and present informed arguments in support of culturally sensitive and socially responsible behaviour in business. Identify leadership characteristics required to manage culture-based challenges in international business (political, social, economic, legal and technological).				
CO4	Analyse cultural differences, conduct comparative analyses and consider the impact on global business organisations and present a range of cultural arguments concerning the need for corporate and social responsibility and ethical behaviour in business, and be able to incorporate the UN Sustainable Goals in local and global business contexts.				
CO5	Evaluate and communicate information reflective of negotiation and management formats and in cross cultural contexts. Incorporate theories, concepts and models relevant to the global and cultural context of an international business issue or case.				
CO6	Discuss the main theories in cross-cultural management, analyse existing research around the theoretical constructs and argue the validity of the extant literature; communicate effectively in oral and written forms about cross cultural management using appropriate concepts, logic and rhetorical conventions.				
Category	Professional Elective (PE)				
Approval					

Mapping of Course Outcomes with Program Outcomes

(S/M/L indicates strength of correlation) S-Strong, M-Medium, L-Low

1	COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
2	CO1			S			S		S		
	CO2			S			S	S	S		S
	CO3	S	S	S		S	S	S	S	S	S
	CO4			S	M	S	S	S	S		
	CO5	S	S		M	S			S	S	
	CO6			S			S	S	S		
3	Category	Fundamental Core (FC)									
4	Approval										

UNIT I

9

Introduction: Concept of Culture for a Business Context; Brief wrap up of organizational culture& its dimensions; Definition of CCM [cross culture management]; Role and Significance of CCM to managerial personnel and to the organizations in the global competitive market economy; Theoretical Foundations of CCM; Horizons in Cross Culture Management; Cultural Background of business stake-holders [Managers, Employees, share holders, suppliers, customers and others] – An Analytical frame work.

UNIT II

9

Culture and Global Management: Global Business Scenario and Role of Culture – A Frame work for Analysis; Elements & Processes of Communication across Cultures; Communication Strategy for/of an Indian MNC and Foreign MNC [with 3 illustrations each drawing from different geo economic and social contexts] & High Performance Winning Teams and Cultures; Culture Implications for Team Building.

UNIT III

9

Cross Culture – Negotiation & Decision Making; Process of Negotiation and Needed Skills& Knowledge Base – Overview with two illustrations from multi cultural contexts[India – Europe/ India – US settings, for instance]; International and Global Business Operations – Strategy Formulation & Implementation; Aligning Strategy, Structure & Culture in an organizational Context.

UNIT IV

9

Global Human Resources Management – Staffing and Training for Global Operations; Developing a Global Management Cadre; Motivating and Leading; Developing the values and behaviours necessary to build high-performance organization personnel[individuals and teams included]

UNIT V

9

Corporate Culture: The Nature of Organizational Cultures; Quality and Cross-Culture; Diagnosing the As-Is Condition; Designing the Strategy for a Culture Change Building; Adjusting in a New Culture – Stages of Cultural Adjustment and Stages of Culture Shock; Successful Implementation of Culture Change Phase; Measurement of on going Improvement.

TOTAL: 45 PERIODS

REFERENCES

1. Cross-cultural Management: An Introduction, David C. Thomas, J. H. Kerr Inkson, Sage Pubns, 2020
2. Understanding Cross-Cultural Management, Marie-Joelle Browaeys, Pearson, 2019
3. Cross Cultural Management: Concepts and Cases, Madhavan, Oxford University Press, 2016
4. Managing Cross-Cultural Communication: Principles and Practic, Barry Maude, Palgrave Macmillan, 2016
5. Critical Issues in Cross Cultural Management, Jessica L. Wildman, Springer, 2016

P18HHMB006		Legal Framework for Hospitals	L	T	P	C
		Total Contact Hours: 45	3	0	0	3
		Prerequisite:				
		Course Designed by : Ms.J.Pavithra				
COURSE OUTCOMES (COs)						
CO1	Remember	Code, Duties of Physician to their patients, Duties of Physician to the profession at large, Duties of Physician to the profession in consultation, Duties of Physician to the profession to the public				
CO2	Understand	Indication or Grounds of MTP, Requirements for MTP-Complications of MTP, The Pre Natal Diagnostic Techniques Act 1994, Definition-Precautions, Importance of Death Certificate, Introduction & Legal Procedure, Impotence, Sterility, Medico Legal aspects of Psychiatric & mental Health-Toxicology				
CO3	Apply	Disciplinary action, Procedure of Recording, Medical ethics , Patient’s rights & provider’s responsibility, Organ Transplantation Act, Tamil Nadu Clinics Act				
CO4	Analyze	Determination of Sex prohibited, Death Certificate-Precautions while issuing death certificate				
CO5	Evaluate	Doctor and Criminal Abortion, Contents of Death Certificate				
CO6	Evaluate	Medical Malpractice-Management of Medical Malpractice				

Mapping of Course Outcomes with Program Outcomes (S/M/L indicates strength of correlation) S-Strong, M-Medium, L-Low											
1	COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
2	CO1	S		L			S	S			
	CO2	S	M			S	S			S	
	CO3				L	S		S			
	CO4				L	S			L	S	L
	CO5						S	S			
	CO6				L		S			S	

3	Category		Fundamental Core (FC)
4	Approval		

UNIT I CODE OF MEDICAL ETHICS (MCI)

9

Code-Duties of Physician to their patients-Duties of Physician to the profession at large-Duties of Physician to the profession in consultation- Duties of Physician to the profession to the public-Disciplinary action

UNIT II THE MEDICAL TERMINATION OF PREGNANCY ACT 1971

9

Indication or Grounds of MTP-Requirements for MTP-Complications of MTP-Doctor and Criminal Abortion-The Pre Natal Diagnostic Techniques Act 1994- -Determination of Sex prohibited

UNIT III DYING DECLARATION

9

Definition-Precautions-Procedure of Recording- -Death Certificate-Precautions while issuing death certificate--Contents of Death Certificate- Importance of Death Certificate

UNIT IV MEDICAL JURISPRUDENCE

9

Introduction & Legal Procedure-Medical ethics- Patient's rights & provider's responsibility-Medical Malpractice-Management of Medical Malpractice

UNIT V MEDICO LEGAL ASPECTS

9

Impotence-Sterility-Medico Legal aspects of Psychiatric & mental Health-Toxicology-Organ Transplantation Act-Tamil Nadu Clinics Act

TOTAL: 45 PERIODS

REFERENCES:

1. N.D. Kapoor - Elements of Mercantile Law - Sultan Chand & Sons, New Delhi – 2003.
2. E. Venkatesan - Hand Book of Mercantile Law - M. L. J. Publications.
3. Bulchandai K. R. - Industrial Law - Himalaya Publishing House

P18BAMB006		Sports Analytics	L	T	P	C
		Total Contact Hours: 45	3	0	0	3
		Prerequisite:				
		Course Designed by : Ms.Jayanthi				
COURSE OUTCOMES (COs)						
CO1	Remember	Recall Which basketball team is the best? Which team has the best offense? - How to account for the strength of the schedule or the strength of the field?				
CO2	Understand	Understand Draft strategies, daily leagues, accounting for variability				
CO3	Apply	Choose the Applications of logistic and fixed effects regression models, Applications of state space / Markov chain and game theoretic methods, Application of integer and nonlinear optimization, Applications of simulation, Optimal strategies in golf: trading off risk and reward , Applications of simulation				
CO4	Analyze	Discuss the 53 MMS, Business Analytics 2015, Baseball: analysis of bunting and base-stealing strategies, Football: analysis of run versus pass, punt or go for-it , Win probability added, player value added, An analysis using PITCH f/x data - Analysis of streaks				
CO5	Evaluate	Compare Measuring golf performance: What is the key to Tiger’s success?				
CO6	Evaluate	Judge Performance prediction: exponential smoothing, mean reversion				

Mapping of Course Outcomes with Program Outcomes (S/M/L indicates strength of correlation) S-Strong, M-Medium, L-Low											
1	COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
2	CO1					S		L	L		
	CO2		L			S	L				
	CO3	S		M		S					
	CO4				S	S					S
	CO5				S			L		L	

	CO6	S						L			S
3	Category		Fundamental Core (FC)								
4	Approval										

UNIT – I

(9)

RATING SPORTS TEAMS AND PLAYERS: Course overview - Which basketball team is the best? Which team has the best offense? - How to account for the strength of the schedule or the strength of the field? - Applications of logistic and fixed effects regression models. 53 MMS - Business Analytics 2015

UNIT - II

(9)

BASEBALL AND FOOTBALL DECISION-MAKING: Baseball: analysis of bunting and base-stealing strategies - Football: analysis of run versus pass, punt or go for-it - Win probability added, player value added - Applications of state space / Markov chain and game theoretic methods.

UNIT - III

(9)

FANTASY SPORTS: Draft strategies, daily leagues, accounting for variability - Performance prediction: exponential smoothing, mean reversion - Application of integer and nonlinear optimization

UNIT - IV

(9)

BASEBALL: An analysis using PITCH f/x data - Analysis of streaks - Applications of simulation

UNIT – V

(9)

GOLF: Measuring golf performance: What is the key to Tiger's success? - Optimal strategies in golf: trading off risk and reward - Applications of simulation

TOTAL: 45 PERIODS

TEXTBOOK

1. Mathletics, Wayne Winston, Princeton University Press 2009. REFERENCES 1. Mark Broadie., "Every Shot Counts", Gotham Books 2014.
2. Michael Mauboussin, "The Success Equation", Harvard Business Review Press 2012.
3. Joe Peta ., "Trading Bases", Dutton 2013.
4. Markowitz and Wertheim., "Score casting", Crown Archetype 2011.
5. "Analyzing Baseball Data with R", Chapman & Hall/CRC

P18THMB006		ACCOMMODATION OPERATION	L	T	P	C
		Total Contact Hours: 45	3	0	0	3
		Course Designed by :Mr Gowtham Aashirwad Kumar				
COURSE OUTCOMES (COs)						
CO#	COGNITIVE ABILITIES	COURSE OUTCOMES				
CO1	Remembering	Recall the concepts of Classification of catering Establishments, Origin of Hospitality Industry, Types of Hotels, Introduction to Hospitality industry, Introduction to front office Front office assistant - Importance of Job Description - Job Description of front office assistant -Introduction to front office - - Front office assistant - Importance of Job Description - Job Description of front office assistant - Receiving the guest at the front office - Rooming a guest with reservation - Rooming of a walk-in-guest - Registration of guests - Duties of Night Receptionist - - Room rack - Black list, Reservation Terminologies - Stages of guest contacts with the hotel (pre-arrival, arrival, during their Stay, departure) - Procedures for left luggage, scanty baggage, and safe deposit facility, Role of Housekeeping (in the hotel and in guest satisfaction and Repeat Business) - Dealing with Guest Lost and found, General consideration for selection of a) Equipments b) Agents - Classification and types of Equipments with care and Maintenance				
CO2	Understanding	Summarize the Organization and layout of front office, The importance of Receptionist , Qualities of front office staff (Front office salesmanship, Knowledge of products, Sales Promotion, Guest needs, Desire to help, Communication), Importance of reservation - Forecasting room reservation - Over booking - Diaries and charts used in reservation - Whitney rack system - Group reservation, Organizational structure of housekeeping Department in small, medium & large hotels, Executive Housekeeper - Deputy Housekeeper - Floor supervisor (Morning, Late duty, Night shift, routine duties Explaining records maintained) - Desk Control Supervisor (duties explaining records maintained) , Method of use and mechanism for each type, Classification of cleaning agents with its use, care and storage - Distribution and Control of cleaning agents				
CO3	Applying	Apply Guest mail handling – Paging - Job description of bell captain & bell boy - Errand card				

CO4	Analyze	Analyze the Growth of Hospitality industry in India, Opportunities in Hospitality Industry, Organization chart of large, medium and small hotels, The Status of receptionist as a partner in the hotel industry, Qualities of front office staff (Front office salesmanship, Knowledge of products, Sales Promotion, Guest needs, Desire to help, Communication) , Duties of Receptionist of a small hotel - Knowledge of various registers and forms used in reception, Areas of cleaning , Special cleaning - Controlling cost and Budgeting - Inventories and Record Keeping, Role of Housekeeping (in the hotel and in guest satisfaction and Repeat Business) - Organizational structure of housekeeping Department in small, medium & large hotels -
CO5	Analyze	Analyze the Areas of cleaning , Special cleaning - Controlling cost and Budgeting - Inventories and Record Keeping - Dealing with Guest Lost and found - Executive Housekeeper - Deputy Housekeeper - Floor supervisor (Morning, Late duty, Night shift, routine duties Explaining records maintained) - Desk Control Supervisor (duties explaining records maintained) - Public Area Supervisor (Routine duties explaining records maintained) - Room Attendants – (Routine duties explaining records maintained) - Store keeper – (Task Performed and records maintained) - House man (Routine duties) - A brief explanation of duties of linen and laundry staff
CO6	Analyze	Analyze the Services offered by the hotels - Types of rooms - Inter Departmental Cooperation with other departments in the Hotel

Mapping of Course Outcomes with Program Outcomes

(S/M/L indicates strength of correlation)

S-Strong, M-Medium, L-Low

1	COs/ POs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
2	CO1	M									M
	CO2		M				M	M			
	CO3		M		L		M	M			
	CO4					L					
	CO5					L	M				
	CO6		M								
3	Cate gory		Professional Elective (PE)								
4	Appr oval										

UNIT – I INTRODUCTION, ORGANISATION OF HOTEL

9

Introduction to Hospitality industry - Growth of Hospitality industry in India- Classification of catering Establishments - Origin of Hospitality Industry - Opportunities in Hospitality Industry - Types of Hotels - Organization chart of large, medium and small hotels - Organization and layout of front office - The importance of Receptionist - The Status of receptionist as a partner in the hotel industry

UNIT – II FRONT OFFICE DEPARTMENT, RECEPTION

9

Introduction to front office - Qualities of front office staff (Front office salesmanship, Knowledge of products, Sales Promotion, Guest needs, Desire to help, Communication) - Front office assistant - Importance of Job Description - Job Description of front office assistant - Receiving the guest at the front office - Rooming a guest with reservation - Rooming of a walk-

in-guest - Registration of guests - Duties of Night Receptionist - Duties of Receptionist of a small hotel - Knowledge of various registers and forms used in reception - Room rack - Black list

UNIT – III RESERVATION, LOBBY

9

Importance of reservation - Forecasting room reservation - Over booking - Diaries and charts used in reservation - Whitney rack system - Group reservation - Reservation Terminologies - Stages of guest contacts with the hotel (pre-arrival, arrival, during their Stay, departure) - Procedures for left luggage, scanty baggage, and safe deposit facility - Guest mail handling – Paging - Job description of bell captain & bell boy - Errand card

UNIT – IV FUNCTIONS OF HOUSEKEEPING DEPARTMENT, DUTIES AND RESPONSIBILITIES OF HOUSE KEEPING STAFF

9

Role of Housekeeping (in the hotel and in guest satisfaction and Repeat Business) - Organizational structure of housekeeping Department in small, medium & large hotels - Areas of cleaning , Special cleaning - Controlling cost and Budgeting - Inventories and Record Keeping - Dealing with Guest Lost and found - Executive Housekeeper - Deputy Housekeeper - Floor supervisor (Morning, Late duty, Night shift, routine duties Explaining records maintained) - Desk Control Supervisor (duties explaining records maintained) - Public Area Supervisor (Routine duties explaining records maintained) - Room Attendants – (Routine duties explaining records maintained) - Store keeper – (Task Performed and records maintained) - House man (Routine duties) - A brief explanation of duties of linen and laundry staff

UNIT – V CLEANING EQUIPMENTS AND AGENTS, FACILITIES OFFERED IN THE HOTELS

9

General consideration for selection of a) Equipments b) Agents - Classification and types of Equipments with care and Maintenance - Method of use and mechanism for each type - Classification of cleaning agents with its use, care and storage - Distribution and Control of cleaning agents - Services offered by the hotels - Types of rooms - Inter Departmental Cooperation with other departments in the Hotel

Total No. of Periods: 45

References:

1. Hotel Housekeeping: Operations and Management 2e, Raghubalan, 2018
2. Front Office Management and Operations, Sudhir Andrews, McGraw Hill Education, 2017
3. Hotel Housekeeping Management and Operations, G. Raghubalan, Oxford University Press India 2015
4. Hotel Front Office: Operations and Management, Jatashankar Tewari, Oxford University Press 2016

SYLLABUS - NPCC

NURSEPRACTITIONERINCRITICALCARE (POSTGRADUATE-RESIDENCYPROGRAM)

(2019)



Bharath Institute of Higher Education and Research

(Deemed To Be University)
Chennai

Revised on 2019

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH
TAMILNADU, CHENNAI



The motto of the BIHER is win the world by innovation. To the stars by hard work. The emblem of the Bharath Institute of Higher Education and Research is a symbolic expression of equality, knowledge, enlightenment, expression of peace and love and all this based as a source of all medicines

The main aim of establishing the institute was to provide high quality education to students from across the world in several relevant fields. The institute was developed to become a premier university for Teaching, Learning, Research, and Innovation. Students here are trained to create a better society with ethics and morals.

Bharath Institute of Higher Education & Research (Tamil Nadu) earlier known as **Bharath University**, commonly referred to as BIHER, commenced its establishment in the academic year of 1984. Bharath University has been given the status of 'Deemed to be University'. The institute is approved and recognized by the All-India Council for Technical Education (AICTE) and the University Grants Commission (UGC) respectively. It has also been accredited with grade 'A' by the National Assessment and Accreditation Council (NAAC).

INTRODUCTION:

Bharath University of Higher Education and Research believes that:

Post Graduate programme is essential to prepare nurses to improve the quality of nursing education and practice in India. Post graduate programme in nursing builds upon and extends competence acquired at the graduate levels, emphasizes application of relevant theories into nursing practice, education, administration and development of research skills.

The programme prepares nurses for leadership position in nursing and health fields who can function as nurse specialists, consultants, educators, administrators and researchers in a wide variety of professional settings in meeting the National priorities and the changing needs of the society.

Critical Care Nurse Practitioner Program is intended to prepare registered B. Sc Nurses to provide advanced nursing care to adults who are critically ill. The nursing care is focused on stabilizing patients' condition, minimizing acute complications and maximizing restoration of health. These NPs are required to practice in tertiary care centers. The program consists of various courses of study that are based on strong scientific foundations including evidenced based practice and the management of complex health systems. These are built upon the bachelor's program in Nursing. When authorized by the nursing regulatory council/s, state or national laws, they may prescribe drugs, medical equipment and therapies.

Nurse practitioners in critical care / acute care, oncology, emergency care, neurology, cardiovascular care, and anesthesia, can be prepared to function in tertiary care settings. Rigorous educational preparation will enable them to diagnose and treat

patients with critical illnesses as well as preventive and promoting care relevant to such illnesses and patients' responses to illness. The special feature of this program is that it is a clinical residency program emphasizing a strong clinical component with 20% of theoretical instruction including skill lab and 80% of clinical experience.

PHILOSOPHY:

We believe that there is a great need to establish a postgraduate program titled Nurse Practitioner in Critical Care to meet the challenges and demands of tertiary healthcare services in India which is reflected in the National Health Policy (NHP draft document 2015) in order to provide quality care to critically ill patients and families.

We believe that postgraduates from a residency program focused on strong clinical component and competency based training must be able to demonstrate clinical competence based on sound theoretical and evidence based knowledge. Education providers/preceptors/mentors must update their current knowledge and practices. Medical faculty/preceptors are invited to participate in his training more in the initial period of training.

We also believe that a variety of educational strategies can be used in the clinical settings to address the deficit of qualified critical care nursing faculty. It is hoped to facilitate developing policies towards licensure and create cadre positions for appropriate placement of these postgraduate critical care NPs in tertiary care centers.

AIM:

The critical care NP program prepares registered B.Sc nurses for advanced practice roles as clinical experts, managers, educators and consultants leading to M.Sc degree in critical care NP.

OBJECTIVES:

On completion of the program, the NPCC will be able to

1. assume responsibility and accountability to provide competent care to critically ill patients and appropriate family care in tertiary care centers
2. demonstrate clinical competence/expertise in providing critical care which includes diagnostic reasoning, complex monitoring and therapies
3. apply theoretical, patho-physiological and pharmacological principles and evidence base in implementing therapies/ interventions in critical care
4. identify the critical conditions and carry out interventions to stabilize and restore patient's health and minimize or manage complications
5. collaborate with other healthcare professionals in the critical care team, across the continuum of critical care

VISION

Bharath Institute of Higher Education & Research (BIHER) envisions and constantly strives to provide an excellent academic and research ambience for students and members of the faculties to acquire professional competence along with human dignity, and spearhead the transformation of community through continuous discovery in science and technology.

MISSION

To develop as a Premier University for Teaching, Learning, Research and Innovation on par with leading global universities.

To impart education and training to students for creating a better society with ethics and morals.

To foster an interdisciplinary approach in education, research and innovation by supporting lifelong professional development, enriching knowledge banks through scientific research, promoting best practices and innovation, industry-driven and institute-oriented cooperation, globalization and international initiatives.

To develop as a multi-dimensional institution contributing immensely to the cause of societal advancement through spread of literacy, an ambience that provides the best of international exposures, provide health care, enrich rural development and most importantly impart value-based education.

To establish benchmark standards in professional practice in the fields of innovative and emerging areas in medicine, dentistry, nursing, physiotherapy, allied sciences, engineering, and management.

To launch new programmes with innovative curriculum design by provide multi-faceted exposure in various subjects.

To provide flexibility to students - options / add-ons to core subjects, develop Device Agnostic Technology to access online content

Funding/incubation entrepreneurial ideas flipped class room – Integrated Courses & Need based learning.

PROGRAMME EDUCATIONAL OBJECTS (PEO)

PO1	Provide holistic care recognizing individual patient's preferences, values and needs, that is compassionate, coordinated, age and culturally appropriate safe and effective care.
PO2	Demonstrate accountability for the delivery of standard-based nursing care that is consistent with moral, altruistic, legal, ethical, regulatory and humanistic principles.
PO3	Influence the behaviour of individuals and groups within their environment and facilitate establishment of shared goals
PO4	Demonstrate awareness and responsiveness to the context of healthcare system and ability to manage resources essential to provide optimal quality of care
PO5	Use technology and synthesize information and collaborate to make critical decisions that optimize patient outcomes
PO6	Interact effectively with patients, families and colleagues fostering mutual respect and shared decision making to enhance patient satisfaction and health outcomes
PO7	Function effectively within nursing and interdisciplinary teams, fostering open communication, mutual respect, shared decision making, team learning and development.
PO8	Minimize risk of harm to patients and providers through both system effectiveness and individual performance
PO9	Use data to monitor the outcomes of care processes and utilize improvement methods to design and test changes to continuously improve the quality and safety of healthcare system
PO10	Identify, evaluate and use the best current evidence coupled with clinical expertise and consideration of patient's preferences, experience and values to make practical decisions.
PO11	To become Nurse Researcher and demonstrate skill in conducting research and integrate Evidence based practice in health care.

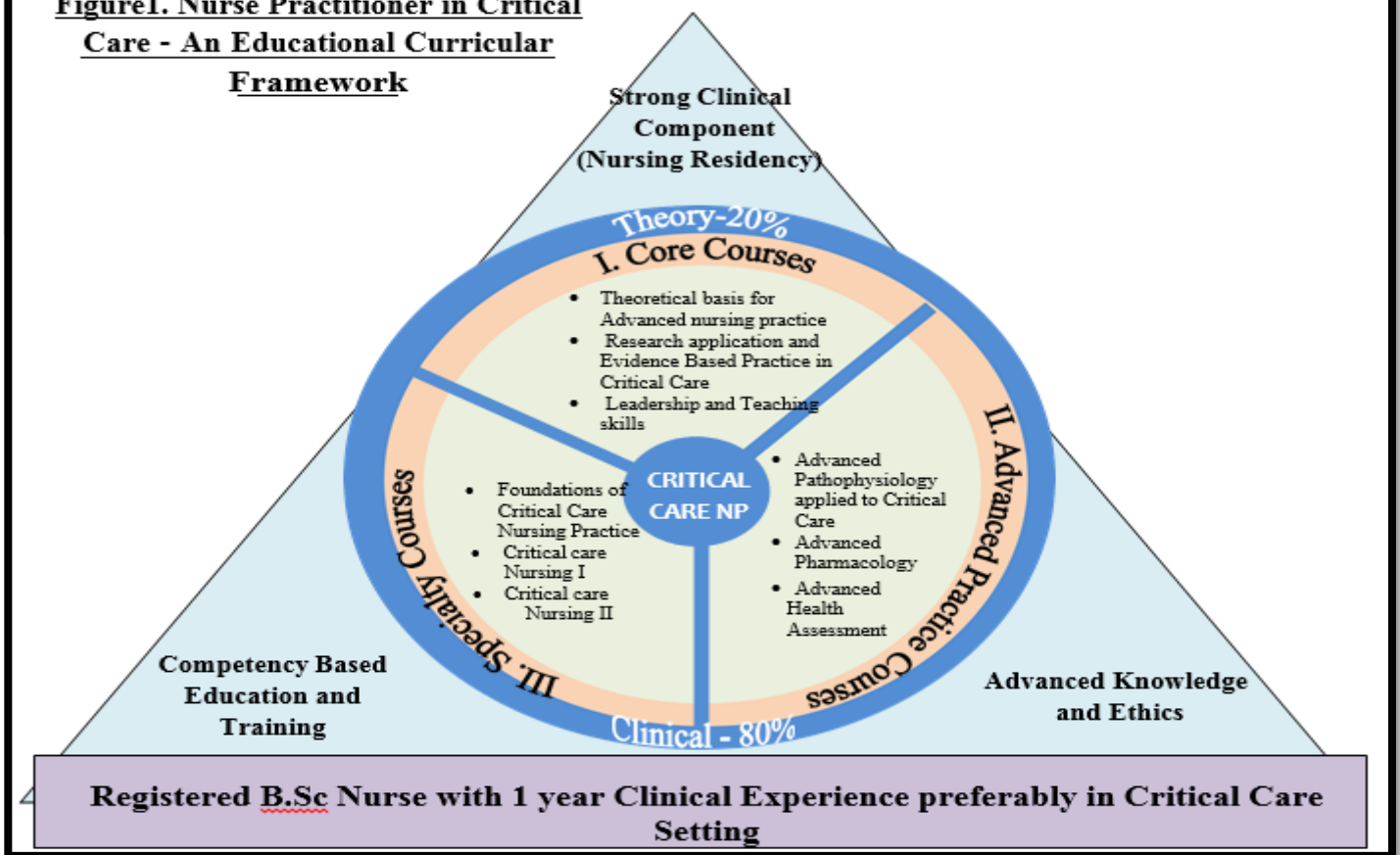
PO12	To become Nurse Educator to understand the process to understand the process of curriculum development and the methodology of curriculum change, innovation and integration.

PROGRAMME SPECIFIC OBJECTIVE:

PSO1	Practice independently were authorizes and the regulatory framework allows in the interest of patients, families, communities and health care settings.
PSO2	Accepts accountability and responsibilities for own advanced professional judgment, actions and continued competence
PSO3	Assumes leadership and management responsibilities in the delivery of efficient advanced practice nursing service in a changing health care system.

NPCC PROGRAM – TWO YEARS CHOICE BASED CREDIT SYSTEM (CBCS) COMPETENCY BASED CURRICULUM

Figure1. Nurse Practitioner in Critical Care - An Educational Curricular Framework



MAPPING / ALIGNMENT OF PEO VS PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
PEO1		✓										✓	✓		✓
PEO2											✓				
PEO3		✓					✓	✓	✓	✓			✓	✓	
PEO4	✓		✓	✓											
PEO5		✓			✓	✓	✓		✓					✓	

MAPPING BETWEEN COURSE OUTCOMES (COS) AND PROGRAMME OUTCOMES (POS)

Year	Courses/ SOs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
I	THEORY												
	Theoretical Basics for Advanced Practice Nursing												
	Research Application And Evidenced Based Practice In Critical Care											✓	
	Advanced Skills In Leadership, Management And Teaching Skills				✓			✓					
	Advanced Patho-physiology Applied To Critical Care				✓								
	Advanced Pharmacology Applied To Critical Care							✓					
	Advanced Health/physical assessment.	✓											
II	Foundations Of Critical Care Nursing Practice		✓					✓					
	Critical Care Nursing - I				✓			✓					
	Critical Care Nursing - II				✓			✓					
	PRACTICAL												
	Research Application And Evidenced Based Practice In Critical Care											✓	
	Advanced Skills In Leadership, Management And Teaching Skills				✓			✓					
	Advanced Health/physical assessment.	✓											

MAPPING BETWEEN PROGRAMME ELECTIVES (PEs) AND PROGRAMME OUTCOMES (POs)

Year	Elective Courses/ SOs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
I	ICU Work place violence								✓				
	Disaster preparedness and protocols.		✓										
II	Nursing audit										✓		
	Cardiac Monitoring										✓		

Course categories with Courses

NPCC. Nursing Ist Year						
Course Code	Course Category	Course Title	L	T	P	C
THEORY						
19TBAPN01	CC	Theoretical Basics for Advanced Practice Nursing	3	0	3	3.7
19RAEBP02	CC	Research Application And Evidenced Based Practice In Critical Care	3	0	3	4.8
19ASLMT03	CC	Advanced Skills In Leadership, Management And Teaching Skills	3	0	3	4.8
19APACCN04	CC	Advanced Patho-physiology Applied To Critical Care	3	0	3	5.5
19APHCC05	CC	Advanced Pharmacology Applied To Critical Care	3	0	3	5.5
19AHPA06		Advanced Health/ physical assessment.	3	0	3	5.5
NPCC. Nursing IInd Year						
19FCCN07	SC	Foundations Of Critical Care Nursing Practice	3	0	3	10
19CCN08	SC	Critical Care Nursing - I	3	0	3	10
19CCN09	SC	Critical Care Nursing - II	3	0	0	10
PRACTICAL – I YEAR						
19RAEBP02	CC	Research Application And Evidenced Based Practice In Critical Care	0	0	3	17
19ASLMT03	CC	Advanced Skills In Leadership, Management And Teaching Skills	0	0	3	17
19AHPA06	CC	Advanced Health/ physical assessment.	0	0	3	36

PRATICAL - II YEAR						
19FCCN07	SC	Foundations Of Critical Care Nursing Practice	0	0	3	17.6
19CCN08	SC	Critical Care Nursing - I	0	0	3	26.2
19CCN09	SC	Critical Care Nursing - II	0	0	3	26.2

Course Code	Elective Courses	L	T	P	C
I YEAR					
19ECICUWV01	ICU work place violence	3	0	3	2
19DPP02	Disaster Preparedness And Protocol	3	0	3	2
II YEAR					
19ECNA03	Nursing Audit	3	0	3	2
19ECCM04	Cardiac Monitoring	3	0	3	2
	(2 Courses Mandatory) – 2 Credits = 40 Hours				

SUMMARY OF CURRICULUM STRUCTURE AND CREDIT & CONTACT HOUR DISTRIBUTION

S. No	Sub Area	Credit As per Year		No. of Credit
		I	II	
1	Core Courses	99.8	--	99.8
2	Specialty Courses	--	100	100
3	Elective Courses	2	2	4
	TOTAL CREDITS			203.8

REGULATIONS:

ELIGIBILITY CRITERIA/ADMISSION REQUIREMENTS:

- The candidate should be a Registered Nurse and Registered midwife or equivalent with any State Nursing Registration Council.
- The minimum education requirements shall be the passing of: B.Sc. Nursing / B.Sc. Hons. Nursing / Post Basic B.Sc. Nursing with minimum of 55% aggregate marks.
- The candidate should have undergone in B.Sc. Nursing / B.Sc. Hons. Nursing / Post Basic B.Sc. Nursing in an institution which is recognized by Indian Nursing Council.
- Minimum one year of work experience after Basic B.Sc. Nursing.
- Minimum one year of work experience prior or after Post Basic B.Sc. Nursing.
- Candidate shall be medically fit.
- 5% relaxation of marks for SC/ST candidates may be given.
- Preference will be given to candidate with clinical experience on the area of specialty choose.
- Currently the candidate must work in the Critical care unit.

ELIGIBILITY CERTIFICATE

- Candidate from Tamil Nadu as well as other state need to obtain as eligibility certificate from the Bharath University by remitting the prescribed fees along with the application form.
- Candidate from other states must produce the migration certificate at the time of admission.

REGISTRATION

The candidate admitted to the programme shall register with the Bharath University by remitting the prescribed fees along with the application form for registration duly filled in and forwarded to the Bharath University through the head of the Institution within the stipulated date.

SELECTION OF THE CANDIDATE:

- Candidate will be selected on the basis of merit and experience in Specialty areas by college selection committee member.
- After scrutiny of application eligible candidate will be called for an Interview/ entrance test before admission.
- Admission notification will intimate the date of commencement of course.

Programme of study

The NPCC programme is of 2 years, non-semester study. During the programme, theory, clinical experience in the hospitals will be provided.

DURATION

Duration of the course is 2 years

Available	50 weeks
Vacation	1 weeks
Examination	2 weeks
Gazetted holidays	1 weeks
Total weeks available	46 weeks
8 hours per week	2208 hours
Total hours for 2 years	4416 hours

Course Instruction

I Year Courses	Theory	Credit	Theory integrated in clinical practice um	Credit
Theoretical basis for Advanced practice Nursing	46	3.7	-	-
Research Application and Evidence Based Practice in Critical Care	60	4.8	20.5	17.0
Advanced skills in leadership, Manag ement and Teaching	60	4.8	20.5	17.0
Advanced Pat hophysiology	69	5.5	-	-
Advanced P armacolog y	69	5.5	-	-
Advanced Health Assessm ent	69	5.5	46	36.0
Total	373	30	87	70

IIyr.Courses	Theory	Credit	Theory integrated in clinical practicum	Credit
Foundations	92	10.0	46	17.6
Critical Care Nursing I	92	10.0	69	26.2
Critical Care Nursing II	92	10.0	69	26.2
Total	276	30	184	70

(Standard National/ International Modules can be used)

Scheme of Examination

S.No	Title	Theory%			Practical%		
		Hours	Internal	External	Hours	Internal	External
IYear							
1	IYear CoreCourses Theoretical Basis forAdvancedPractice Nursing	3 hrs	30	70			
2	Research Application andEvidence Based Practice inCriticalCare	3 hrs	30	70			
3	Advanced skills inLeadership,Managem entandTeachingSkills	3 hrs	30	70			
4	AdvancedPracticeCours es AdvancedPathophysiology& Advanced Pharmacologyreleva nttoCriticalCare	3 hrs	30	70			
5	AdvancedHealth/phy sicalAssessment	3 hrs	30	70		50	50

1	II Year Specialty Courses Foundations of Critical Care Nursing Practice	3 hrs	30	70		100	100
2	Critical Care Nursing I	3 hrs	30	70		100	100
3	Critical Care Nursing II	3 hrs	30	70		100	100
4	Dissertation and viva	3 hrs				50	50

Examination Regulations

1. Minimum pass marks shall be 50 % in each of the Theory and practical papers separately.
2. A candidate must have minimum of 80% attendance (irrespective of the kind of absence) in theory and practical in each subject for appearing for examination.
3. A candidate must have 100% attendance in each of the practical areas before award of degree.
4. A candidate has to pass in theory and practical exam separately in each of the papers.
5. If a candidate fails in either theory or practical paper, he/she has to re-appear for both the papers (Theory and practical).
6. The maximum period to complete the course successfully should not exceed 4 (four) years.
7. A candidate failing in more than two subjects will not be promoted to the II year.
8. No candidate shall be admitted to the subsequent II-year examination unless the candidate has passed the I year examination.
9. Maximum number of candidates for all practical examination should not exceed 10 per day.
10. Provision of Supplementary examination should be made.
11. All practical examinations must be held in the respective clinical areas.
12. One internal and One external examiner (outside the University) should jointly conduct practical examination for each student.
13. An examiner should be M.Sc (N) in concerned subject and have minimum of 3 (three) years post graduate teaching experience.

14. One internal and One external examiner (outside the University) should evaluate dissertation and jointly conduct viva-voce for each student
15. For Dissertation Internal examiner should be the guide and external examiner should be Nursing faculty / nursing expert in the same clinical speciality holding Ph.D./M.Phil/M.Sc. Nursing with a minimum of 3 years' experience in guiding the research projects for Post Graduate students of Nursing.

ATTENDANCE:

A Candidate pursuing NPCC Course shall study in the concern department of the institution for the entire period as a full-time student. No candidate is permitted to work in any laboratory/college/industry/pharmacy etc while studying post graduate course. No candidate should join any other course of study or appear for any other examination conducted by the university or any other university in India or abroad during the period of registration.

Each year shall be taken as a unit for the purpose of calculating attendance.

1. Every student shall attend symposium, seminars, conferences, journal review meetings and lectures during each year as prescribed by the department/college/university and not absent himself/herself without valid reasons.
2. Candidate who has put in a minimum of 80% attendance in the theory and practical assignments separately shall be permitted to appear for M.Sc. Nursing examination, provided she /he has completed the course and has shown satisfactory progress mentioned in the logbook
3. Any student who fails to complete the course in the manner stated above shall not be permitted to appear for the university examination

INTERNAL ASSESSMENT MARKS

There shall be continuous internal assessment. The marks for internal assessment set apart for the theory and practical in each subject there shall be two tests and two assignments in each subject, the average of which shall be taken for the internal assessment. The principal shall notify the internal assessment marks in the notice board at the end of each term

without fail under the intimation of the university. The principal of the college shall send the internal assessment marks of the students to the university

A student must secure at least 50% of the total marks fixed for internal assessment in a particular subject in order to be eligible to appear in university examination in all subject

Distribution of internal assessment marks for various subjects

Firstyear

SI. No	SUBJECT	INTERNAL ASSESSMENT MARKS
01	Theoretical Basis for Advanced Practice Nursing Theory Practical	30 -
02	Research Application and Evidence Based Practice in Critical Care Theory Practical	30 -
03	Advanced skills in Leadership, Management and Teaching Skills Theory Practical	30 -
04	Advanced Practice Courses Advance Pathophysiology & Advanced Pharmacology relevant to Critical Care Theory Practical	30 -
05	Advanced Health/physical Assessment Theory Practical	30 50
	TOTAL	200

Secondyear

SI.NO	SUBJECT	INTERNAL ASSESSMENT MARKS
01	Foundations of Critical Care Nursing Practice Theory Practical	30 100
02	Critical Care Nursing I Theory Practical	30 100
03	Critical Care Nursing II Theory Practical	30 100
04	Dissertation and viva Theory Practical	- 50
	TOTAL	440

MONITORING PROGRESS OF STUDIES:

Every candidate shall maintain a log book and record of her/his participation in the training programme conducted by the department such as journal reviews, seminars etc. The faculty members and peers will assess the presentation using relevant check list. The presentation made by the candidates should be mentioned in the log book. The log book shall be scrutinized and certified by the Tamilnadu Nursing Council and presented in the university practical examination

NPCC LOG BOOK:

The university has prescribed a log book which is scrutinized by Tamilnadu Nursing Council.

DISSERTATION:

Each candidate pursuing NPCC course is required to carry out on selected research project under the guidance of a recognized Post Graduate Teacher. The results of such a work shall be submitted in the form of dissertation.

The dissertation is aimed to train a graduate student in research methods and

techniques. It includes identification of problems, formulation of hypothesis, search and review of literature, getting acquainted with recent advances, designing of a research study, collection of data, critical analysis, interpretation of results and drawing conclusions. Every candidate shall submit to the Registrar of the university in the prescribed proforma. No change in the dissertation topic or guide shall be made without prior approval of the university.

The dissertation should be written under the following headings:

1. Introduction
2. Aims or objectives of study
3. Review of literature
4. Materials and methods
5. Results
6. Discussion
7. Conclusion
8. Summary
9. References
10. Tables
11. Annexures

The written text of dissertation shall not be less than 10 pages and shall not exceed 100 pages excluding references, tables, questionnaires and other annexure. It should be neatly typed in double line spacing on one side of paper (A4 Size, 8.27" x 11.69") and bound properly. Spiral bindings should not be done. A declaration by the candidate for having done the work should also be included and certified by the guide, head of the department and head of the institution. Six copies of dissertation shall be submitted to the registrar through proper channel along with soft copy. Three months before the final examination, it shall be assessed by three examiners, one internal and two externals, appointed by the university. Acceptance of the dissertation is a pre-requisite for a candidate to appear for final examination.

REGULATIONS FOR EXAMINATION:

The NPCC course shall have two examinations, one at the end of the first year and second at the end of the second year

Eligibility for appearing for the examination:

75% of the attendance for theory and practical. However, 100% of attendance for practical before the award of degree.

NPCC I Year Examination:

It consists of theory(written) papers and practical examinations.

Theory – (Written) Examination:

The following 4 papers are the theory papers for candidates

1. Theoretical Basis for Advanced Practice Nursing
2. Research Application and Evidence Based Practice in Critical Care
3. Advanced skills in Leadership, Management and Teaching Skills
4. Advanced Pathophysiology & Advanced Pharmacology relevant to Critical Care

The following paper includes both the theory and practical for candidates

1. Advanced Health/physical Assessment

Criteria to pass:

To be declared as pass in the NPCC I year, a candidate has to pass in all the prescribed subjects for the I year.

Practical examination

There shall be practical examination in Advanced Health/physical Assessment for the candidate.

01. Common Subject:

A candidate shall secure in each of the common subjects not less than 50% marks prescribed for university examination.

02. Nursing SpecialtySubject:

A candidate shall secure not less than 50% marks prescribed for university examination in theory and practical examination exclusive of internal assessment marks.

Carry over

The candidate who has failed in more than two subjects will not be promoted to the II year

NPCC II Year Examination:

The university examination consists of dissertation, written papers (theory), practical examination and viva-voce examination, including dissertation.

Dissertation:

Only candidates who dissertation has been accepted shall be eligible to appear for NPCC II year examination.

Theory – (Written) Examination:

The following 3 papers are the theory papers for candidates

1. Foundations of Critical Care Nursing Practice
2. Critical Care Nursing I
3. Critical Care Nursing II

Practical examination

There shall be practical examination in all the above mentioned three subjects.

Criteria to pass:

To be declared as pass in the NPCC II year, a candidate has to pass in all the prescribed subjects for the II year.

01. Common Subject:

A candidate shall secure in each of the common subjects not less than 50% marks prescribed for university examination.

02. Nursing Specialty Subject:

A candidate shall secure not less than 50% marks prescribed for university examination in theory and practical examination exclusive of internal assessment marks.

Classification of results:

- 50% pass in each of the theory and practical separately.
- 50-59% Second division
- 60-74% first division
- 75% and above is distinction

For declaring the rank aggregate of 2 years marks to be considered

If the candidate fails in either practical or theory paper, he/she has to re-appear for both the papers (theory and practical)

Maximum no. of attempts per subject is three (3) inclusive of first attempt. The maximum period to complete the course successfully should not exceed 4 years.

Candidate who fails in any subject, shall be permitted to continue the studies into the second year. However the candidate shall not be allowed to appear for the Second year examination till such time that he/she passes all subjects of the first year NPCC examination.

Eligibility for degree:

A candidate shall have passed in all the subjects of NPCC I & II Year to be eligible for the award of degree

Practical

- 4 hours of practical examination per student.
- Maximum number of 10 students per day per specialty.
- The examination should be held in clinical area only for clinical specialties
- One internal and external should jointly conduct practical examination
- Examiner – Nursing faculty teaching respective specialty area in M.Sc nursing programme with minimum 3 years' experience after M.Sc nursing.

Guidelines for Dissertation Tentative

Schedule for dissertation

S. No.	Activities	Scheduled Time
1.	Submission of the research proposal	End of 9 th month of 1 st year
2.	Submission of dissertation – Final	End of 9 th month of II nd Year

Note: - Administrative approval and ethical clearance should be obtained

Research Guides

a) Qualification of Guide

Main guide: Nursing faculty / nursing expert in the same clinical speciality holding Ph.D./M.Phil/M.Sc. Nursing with a minimum of 3 years' experience in teaching in the Post Graduate Programme in Nursing.

Co-Guide: A Co-Guide is a nursing faculty/expert in the field of study (may be from outside the college but should be within the city.)

b) Guide – Students Ratio

Maximum of 1:4 (including asco-guide)

c) Research Committee

There should be a research committee in each college comprising of minimum 5 members chaired by the Principal, College of Nursing.

d) Change of guide:

In the event of a registered guide leaving the college for any reasons or in the event of death of guide, guide may be changed with prior permission from the university

Evaluation of Dissertation:

The dissertation shall be evaluated by:

1. Professor of Nursing Research common to all the branches of specialty.
2. Professor in clinical specialty.
3. An external examiner with experience in Nursing Research who

will be common to all the branches of specialty

4. The number of pages of dissertation should not exceed 60 pages
5. The viva-voce examination should be a minimum 30 minutes per student.

Resubmission of thesis:

- Resubmission of thesis with corrections can be done within 6 months
- Resubmission of thesis with total re-doing can be done within 2 years.

Conduct and Discipline:

1. Students are expected to follow ethical values in personal and profession
life and maintain the professional standards in college and hospital.
2. Students should make every effort to care of the college, hostel and hospital property.
3. Students are expected to abide by the rules and regulations laid by the College, Hospital and Hostel.

Eligibility for Examiners

Internal examiner:

A person to be eligible to be appointed as internal examiner shall be recognized PG teacher of BIHER in the concerned branch of speciality and shall have at least 3 years of PG Teaching experience M.Sc. Nursing students.

External examiner:

A person to be eligible to be appointed as external examiner shall have the qualification prescribed above for a guide and shall have at least 3 years of PG Teaching experience for M.Sc. Nursing students.

Number of examiners:

There shall be two examiners, one internal and one external

(19 TBAPN01) THEORETICAL BASIS FOR ADVANCED PRACTICE NURSING

PLACEMENT-IYEAR

Hours of instruction

Theory:46hoursCredit: 3.7

This course was introduced to teach about the advanced practices in nursing and how to apply that in the care of patients with critically illness.

Objectives

At the end of the course, students will be able to:

1. Analyse the global healthcare trends and challenges
2. Analyses the impact of Healthcare and Education policies in India on nursing consulting the documents available.
3. Develops in depth understanding of the healthcare delivery system in India, and its challenges
4. Applies economic principles relevant to delivery of healthcare services in critical care
5. Manages and transforms health information to effect health outcomes such as cost, quality and satisfaction
6. Accepts the accountability and responsibility in practicing the Nurse practitioner's roles and competencies
7. Actively participates in collaborative practice involving all healthcare team members in critical care and performs the prescriptive roles within the authorized scope
8. Engages in ethical practice having a sound knowledge of law, ethics and regulation of advanced nursing practice
9. Uses the training opportunities provided through well planned preceptorship and performs safe and competent care applying nursing process
10. Applies the knowledge of nursing theories in providing competent care to critically ill patients
11. Predicts future challenges of nurse practitioner's roles in variety of healthcare settings particularly in India

Course Content

Units	Hours		Course Content
	Theory	Practical	
I.	2		GlobalHealthCareChallengesandTrends
II.	2		HealthSysteminIndia HealthCare DeliverySysteminIndia – ChangingScenario
III.	2		NationalHealthPlanning–5 yearplans andNationalHealth Policy
IV.	4		HealthEconomics&HealthCarefinancing
V.	4		HealthInformationssystemincludingNursingInformatics(useof computers
			AdvancedNursingPractice(ANP)
VI.	4		ANP- Definition,Scope,Philosophy,Accountability,Roles&Responsibil ities (CollaborativepracticeandNursePrescribingroles
VII.	4		Regulation(accreditation oftraininginstitutionsandCredentialing)&Ethical Dimensionsofadvanced nursingpracticeroles
VIII.	4		NursePractitioner– Roles,Types,Competencies, Clinicalsettingsforpractice, culturalcompetence
IX.	2		TrainingforNPs–Preceptorship
X.	4		FuturechallengesofNPpractice
XI.	4		TheoriesofNursingappliedto APN
XII.	2		NursingprocessappliedtoAPN

Course Outcomes (Cos)

CO1	Assume responsibility and accountability to provide competent care to critically ill patients and appropriate family care in tertiary care centres
CO2	Demonstrate clinical competence / expertise in providing critical care which includes diagnostic reasoning, complex monitoring and therapies
CO3	Apply theoretical, patho-physiological and pharmacological principles and evidence base in implementing therapies / interventions in critical care
CO4	Identify the critical conditions and carry out interventions to stabilize and restore patient's health and minimize or manage complications
CO5	Collaborate with other health care professionals in the critical care team, across the continuum of critical care
CO6	Promoting evidenced based skill in care of patient in the critical care units

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	2	3	3	3	2	3	3	3	3		3	3	3	2
CO2		2	3		1				3			3		2	1
CO3		1				1		1				3	1	3	
CO4	3			3		3				2	2			3	3
CO5	3	3		3		2	3	1		2	2		3		2
CO6	2	3	2	2	2	2	2	2	3	2	2	2	3		2

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

Activities:

- Framing philosophy, aims and objectives.
- Lesson Planning.
- Microteaching-2.
- Conduct practice teachings using different teaching strategies -10 (like lecture cum discussion, demonstration- lab method, field trips, seminars, project, role play, panel discussion, clinical method etc)
- Preparation and utilization of instructional Aids using different media.
- Develop course plans, unit plans, rotation plans.
- Continuing education workshops.
- Annotated bibliography.
- Construct, administer and evaluate tools (objective & essay type test, observation checklist, rating scale etc.) Observe and practice application of various non-standardized tests (intelligence, Aptitude, Personality, Sociometry, physical & mental disability tests.)

Methods of Teaching

- Lecture cum discussion
- Demonstration/ Return demonstration
- Seminar /Presentations
- Project work
- Workshop

Methods of evaluation

- Tests
- Presentation
- Projectwork
- Written assignments

Internal Assessment**Techniques**

Test- (2 tests)

Assignment

Seminar/presentation

Weightage

50

25

25

100

Practical – Internal assessment

Learning resource material

25

Practice Teaching

50

Conduct Workshop

25

/Short Term Course

Practical – external assessment

Practice teaching- 1-

50

Preparation/use of learning resource material-1

25

Construction of tests/rotation plan.

25

**(19RAEBP02) RESEARCH APPLICATION AND EVIDENCE BASED PRACTICE IN
CRITICAL CARE**

PLACEMENT-IYEAR

Theory: 60hours Credit: 4.8

Hours of instruction

Practical: 20.5hours Credit: 17.0

This course was introduced to teach about the advanced practices in nursing and how to apply that in the care of patients with critically illness with evidence based research oriented manner.

Objectives

At the end of the course, students will be able to:

1. Apply sound research knowledge and skills in conducting independent research in critical care setting
2. Participate in collaborative research to improve patient care quality
3. Interpret and use research findings in advanced practice to produce EBP
4. Test / Evaluate current practice to develop best practices and health outcomes and quality care in advanced practice
5. Analyze the evidence for nursing interventions carried out in critical care nursing practice to promote safety and effectiveness of care
6. Develop skill in writing scientific research reports

Course Content

Units	Hours		Course Content
	Theory	Practical	
I.	2	5	Research and Advanced Practice Nursing: Significance of Research and inquiry related to Advanced nursing role
II.	6	2	Research agenda for APN practice: Testing current practice to develop best practice, health outcomes and indicators of quality care in advanced practice, promoting research culture
III.	40 (5 days workshop)	13.5	Research Knowledge and skills: Research competencies essential for APNs (interpretation and use of research, evaluation of practice, participation in collaborative research)

			Research Methodology Phases/steps (Research question, Review of literature, conceptual framework, research designs, sampling, data collection, methods & tools, Analysis and Reporting) writing research proposal and research report
IV.	8 (1 day workshop)		Writing for publication (writing workshop – Manuscript preparation and finding funding sources)
V.	4		Evidence based practice - Concepts, principles, importance and steps - Integrating EBP to ICU environment - Areas of evidence in critical care - Barriers to implement EBP - Strategies to promote

Course Outcomes (Cos)

CO1	Applies sound research knowledge and skills in conducting independent research in critical care setting
CO2	Participates in collaborative research to improve patient care quality
CO3	Interprets and uses research findings in advanced practice to produce EBP
CO4	Tests / Evaluates current practice to develop best practices and health outcomes and quality care in advanced practice
CO5	Analyzes the evidence for nursing interventions carried out in critical care nursing practice to promote safety and effectiveness of care
CO6	Develops skill in writing scientific research reports

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	2	3	3	3	2	3	3	3	3		3	3	3	2
CO2		2	3		1				3			3		2	1
CO3		1				1		1				3	1	3	
CO4	3			3		3				2	2			3	3
CO5	3	3		3		2	3	1		2	2		3		2
CO6	2	3	2	2	2	2	2	2	3	2	2	2	3		2

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

Activities:

- Framing philosophy, aims and objectives.
- Lesson Planning.
- Microteaching-2.
- Conduct practice teachings using different teaching strategies -10 (like lecture cum discussion, demonstration- lab method, field trips, seminars, project, role play, panel discussion, clinical method etc)
- Preparation and utilization of instructional Aids using different media.
- Develop course plans, unit plans, rotation plans.
- Continuing education workshops.
- Annotated bibliography.
- Construct, administer and evaluate tools (objective & essay type test, observation checklist, rating scale etc.,
- Observe and practice application of various non-standardized tests (intelligence, Aptitude, Personality, Sociometry, physical & mental disability tests.)

Methods of Teaching

- Lecture cum discussion
- Demonstration/ Return demonstration
- Seminar /Presentations
- Projectwork
- Workshop

Methods of evaluation

- Tests
- Presentation
- Projectwork
- Written assignments

Internal Assessment**Techniques**

Test- (2 tests)

Assignment

Seminar/presentation

Weightage

50

25

25

100

Practical – Internal assessment

Learning resource material	25
Practice Teaching	50
Conduct Workshop	25
/Short Term Course	

Practical – external assessment

Practice teaching- 1-	50
Preparation/use of learning resource material-1	25
Construction of tests/rotation plan.	25

Practical/Lab&Assignments -20.5hrs

- Writing exercises on Research question, objectives and hypothesis
- Writing research proposal
- Scientific paper writing– preparation of manuscript for publication
- Systematic review– Analyze the evidence for a given nursing intervention in ICU

Clinical Practicum

- Research practicum: Dissertation

(19ASLMPT03) ADVANCED SKILLS IN LEADERSHIP, MANAGEMENT AND TEACHING

PLACEMENT-IYEAR

Theory: 60hours Credit: 4.8

Hours of instruction

Practical: 20.5hours Credit: 17.0

This course was introduced to teach about the advanced practices in nursing and how to apply that in the care of patients with critically illness.

Objectives

At the end of the course, students will be able to:

1. Applies principles of leadership and management in critical care units
2. Manages stress and conflicts effectively in a critical care setting using sound knowledge of principles
3. Applies problem solving and decision making skills effectively
4. Uses critical thinking and communication skills in providing leadership and managing patient care in ICU
5. Builds teams and motivates others in ICU setting
6. Develops unit budget, manages supplies and staffing effectively
7. Participates appropriately in times of innovation and change
8. Uses effective teaching methods, media and evaluation based on sound principles of teaching
9. Develops advocacy role in patient care, maintaining quality and ethics in ICU environment
10. Provides counseling to families and patients in crisis situations particularly end of life care

Course Content

Units	Hours		Course Content
	Theory	Practical	
I.	2		Theories, styles of leadership and current trends
II.	2		Theories, styles of management and current trends
III.	6		Principles of leadership and management applied to critical care settings
IV.	4		Stress management and conflict management – principles and application to critical care environment, Effective time management
V.	4		Quality improvement and audit
VI.	6		Problem solving, critical thinking and decision making, communication skills applied to critical care nursing practice
VII.	2	3	Team building, motivating and mentoring within ICU setup
VIII.	6	5	Budgeting and management of resources including human resources – ICU budget, material management, staffing, assignments
IX.	2		Change and innovation
X.	6	2.5	Staff performance, and evaluation (performance appraisals)
XI.	2	5	Teaching – Learning theories and principles applied to Critical Care Nursing

XII.	2	5	Competencybasededucationandoutcomebasededucation
XIII.	8		Teachingmethods/strategies,media:educatingpatientsand staffinCritical Caresettings
XIV.	4		Staffeducationand useof toolsinevaluation
XV.	2		APN–Rolesasateacher
XVI.	2		Advocacyroles,familycounselingincriticalcare environment

Course Outcomes (Cos)

CO1	Appliesprinciplesofleadershipandmanagementincriticalcareunits Managesstress andconflicts effectivelyin acriticalcaresettingusingsoundknowledgeofprinciples
CO2	Appliesproblemsolvinganddecisionmakingskillseffectively UsescriticalthinkingandcommunicationskillsinprovidingleadershipandmanagingpatientcareinICU
CO3	Buildsteamsandmotivatesothersin ICUsetting Developsunibudget,managessuppliesatstaffingeffectively
CO4	Participatesappropriatelyintimesofinnovationand change Useeffectiveteachingmethods,mediaandevaluationbasedonsoundprinciplesofteaching
CO5	Develops advocacy role in patient care, maintaining quality and ethics in ICU environment
CO6	Provides counselling to families and patients in crisis situations particularly end of life care

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	2	3	3	3	2	3	3	3	3		3	3	3	2
CO2		2	3		1				3			3		2	1
CO3		1				1		1				3	1	3	
CO4	3			3		3				2	2			3	3
CO5	3	3		3		2	3	1		2	2		3		2
CO6	2	3	2	2	2	2	2	2	3	2	2	2	3		2

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

Activities:

- Framing philosophy, aims and objectives.

- LessonPlanning.
- Microteaching-2.
- Conduct practice teachings using different teaching strategies -10 (like lecture cum discussion, demonstration- lab method, field trips, seminars, project, role play, panel discussion, clinical method etc)
- Preparation and utilization of instructional Aids using different media.
- Develop course plans, unit plans, rotation plans.
- Continuing education workshops.
- Annotated bibliography.
- Construct, administer and evaluate tools (objective & essay type test, observation checklist, rating scale etc.,
- Observe and practice application of various non-standardized tests (intelligence, Aptitude, Personality, Sociometry, physical & mental disability tests.)

Methods of Teaching

- Lecture cum discussion
- Demonstration/ Return demonstration
- Seminar /Presentations
- Projectwork
- Workshop

Methods of evaluation

- Tests
- Presentation
- Projectwork
- Written assignments

Internal Assessment

Techniques

Test- (2 tests)

Assignment

Seminar/presentation

Weightage

50

25

25

100

Practical – Internal assessment

Learning resource material

25

Practice Teaching	50
Conduct Workshop	25
/Short Term Course	

Practical – external assessment

Practice teaching- 1-	50
Preparation/use of learning resource material-1	25
Construction of tests/rotation plan.	25

Practical/Lab=20.5hrs.

1. Preparation of budget
2. Preparation of staff duty roster
3. Preparation of staff patient assignment
4. Development of teaching plan
5. Microteaching/patient education sessions
6. Preparation of teaching media for patients and staff

Assignment-ICU work place violence

ADVANCED NURSING COURSES

(19APACCN04) ADVANCED PATHOPHYSIOLOGY APPLIED TO CRITICAL CARE NURSING – I & II

PLACEMENT-I YEAR

Hours of instruction

Theory: 69 hours Credit: 5.5

This course was introduced to teach about the advanced practices in nursing and how to apply that in the care of patients with critically illness.

Objectives

At the end of the course, students will be able to:

- Integrate the knowledge of pathophysiological process in critical conditions in developing diagnosis and plan of care
- Applies the pathophysiological principles in symptom management and secondary prevention of critical illnesses
- Analyze the pathophysiological changes relevant to each critical illness recognizing the value of diagnosis, treatment, care and prognosis.

Course Content

Advanced Pathophysiology Applied to Critical Care Nursing – I

Units	Hours		Course Content
	Theory	Practical	
I.	10		Cardiovascular function Advanced pathophysiological process of cardiovascular conditions

			• Hypertensive disorder • Peripheral artery disorder • Venous disorders • Coronary artery diseases • Valvular heart disease • Cardiomyopathy and heart failure • Cardiac tamponade • Heart block and conduction disturbances
II.	5		Pulmonary function Advanced pathophysiological process of pulmonary conditions • Chronic obstructive pulmonary disease • Disorders of the pulmonary vasculature • Infectious diseases • Respiratory failure • Chest trauma
III.	10		Neurological function Advanced pathophysiological process of neurological conditions • Seizure disorder • Cerebrovascular disease • Infections • Spinal cord disorder • Degenerative neurological diseases • Neurological trauma • Coma, unconsciousness
IV.	5		Renal function Advanced pathophysiological process of renal conditions • Acute renal failure • Chronic renal failure • Bladder trauma
V.	5		Gastrointestinal and hepatobiliary function

			Advanced pathophysiological process of hepatobiliary conditions • Gastrointestinal bleeding • Intestinal obstruction • Pancreatitis • Hepatic failure • Gastrointestinal perforation
VI.	5		Endocrine functions Advanced pathophysiological process of endocrine conditions • Diabetic ketoacidosis • Hyperosmolar nonketotic coma • Hypoglycemia • Thyroid storm • Myxedema coma • Adrenal crisis Syndrome of inappropriate antidiuretic hormone secretion

ADVANCED PATHOPHYSIOLOGY APPLIED TO CRITICAL CARE NURSING-II

Units	Hours		Course Content
	Theory	Practical	
I.	8		Hematological function Advanced pathophysiological process of hematological conditions • Disorders of red blood cells • Polycythemia • Anemia • Sickle cell diseases • Disorders of white blood cells • Leucopenia • Neoplastic disorders • Disorders of hemostasis • Platelet disorders

			• Coagulation disorders • Disseminated intravascular coagulation
II.	2		Integumentary function Advanced pathophysiological process of integumentary conditions • Wound healing • Burns
III.	8		Multisystem dysfunction Advanced pathophysiological process of neurological conditions • Shock - Hypovolemic - Cardiogenic - Distributive • Systemic inflammatory syndrome • Multiple organ dysfunction syndrome • Trauma - Thoracic - Abdominal - Musculoskeletal - maxillofacial • Drug overdose and poisoning • Envenomation
IV.	6		Specific infections Advanced pathophysiological process of specific infections • HIV • Tetanus • SARS • Rickettsiosis • Leptospirosis • Dengue • Malaria • Chikungunya • Rabies • Avian flu

			• Swineflu
V.	6		Reproductive functions Advanced pathophysiological processes of reproductive conditions • Antepartum hemorrhage • Pregnancy induced hypertension • Obstructed labour • Ruptured uterus • Postpartum hemorrhage • Puerperal sepsis • Amniotic fluid embolism • HELLP (Hemolysis, Elevated Liver enzymes, Low Platelet Count) • Trauma

Course Outcomes (Cos)

CO1	Assume responsibility and accountability to provide competent care to critically ill patients and appropriate family care in tertiary care centres
CO2	Demonstrate clinical competence / expertise in providing critical care which includes diagnostic reasoning, complex monitoring and therapies
CO3	Apply theoretical, patho-physiological and pharmacological principles and evidence base in implementing therapies / interventions in critical care
CO4	Integrates the knowledge of pathophysiological process in critical conditions in developing diagnosis and plan of care
CO5	Applies the pathophysiological principles in symptom management and secondary prevention of critical illnesses
CO6	Analyzes the pathophysiological changes relevant to each critical illness recognizing the value of diagnosis, treatment, care and prognosis

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	2	3	3	3	2	3	3	3	3		3	3	3	2
CO2		2	3		1				3			3		2	1
CO3		1				1		1				3	1	3	
CO4	3			3		3				2	2			3	3
CO5	3	3		3		2	3	1		2	2		3		2
CO6	2	3	2	2	2	2	2	2	3	2	2	2	3		2

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

Activities:

- Framing philosophy, aims and objectives.
- Lesson Planning.
- Microteaching-2.
- Conduct practice teachings using different teaching strategies -10 (like lecture cum discussion, demonstration- lab method, field trips, seminars, project, role play, panel discussion, clinical method etc)
- Preparation and utilization of instructional Aids using different media.
- Develop course plans, unit plans, rotation plans.
- Continuing education workshops.
- Annotated bibliography.
- Construct, administer and evaluate tools (objective & essay type test, observation checklist, rating scale etc.,
- Observe and practice application of various non-standardized tests (intelligence, Aptitude, Personality, Sociometry, physical & mental disability tests.)

Methods of Teaching

- Lecture cum discussion
- Demonstration/ Return demonstration
- Seminar /Presentations
- Projectwork
- Workshok

Methods of evaluation

- Tests
- Presentation
- Projectwork
- Written assignments

Internal Assessment

Techniques

Test- (2 tests)

Assignment

Seminar/presentation

Weightage

50

25

25

100

Practical – Internal assessment

Learning resource material

25

Practice Teaching

50

Conduct Workshop

25

/Short Term Course

Practical – external assessment

Practice teaching- 1-

50

Preparation/use of learning resource material-1

25

(19APHCC05) ADVANCED PHARMACOLOGY APPLIED TO CRITICAL CARE NURSING

PLACEMENT-IYEAR

Theory: 69hoursCredit: 5.5

Hours of instruction

Practical:69 hours Credit:5.5

This course was introduced to teach about the advanced practices in nursing and how to apply that in the care of patients with critically illness.

Objectives

At the end of the course, students will be able to:

- Apply the pharmacological principles in providing care to critically ill patients and families
- Analyze pharmacotherapeutics and pharmacodynamics relevant to drugs used in the treatment of critical care conditions
- Perform safe drug administration based on principles and institutional protocols
- Document accurately and provide follow-up care
- Apply sound knowledge of drug interactions in administration of drugs to critically ill patients in the critical care settings and guiding their families in self-care management

Course Content

Units	Hours		Course Content
	Theory	Practical	
I.	2		Introduction to pharmacology in critical care • History • Classification of drugs and schedules
II.	5		Pharmacokinetics and Pharmacodynamics • Introduction • Absorption, Distribution, Metabolism, Distribution and Excretion in critical care • Plasma concentration, half-life • Loading and maintenance dose • Therapeutic index and drug safety • Potency and efficacy

			• Principles of drug administration ▪ Therights of drug administration ▪ Systems of measurement ▪ Enteral drug administration ▪ Topical drug administration ▪ Parenteral drug administration
III.	6		Pharmacology and Cardiovascular alterations in Critical care • Vasoactive Medications ▪ Vasodilator, ▪ Vasopressor, ▪ Inotropes ✓ Cardiac glycosides – digoxin ✓ Sympathomimetics – Dopamine, dobutamine, epinephrine, isoproterenol, norepinephrine, phenylephrine ✓ Phosphodiesterase inhibitors – amrinone, milrinone ✓ Antiarrhythmic Medications ✓ Cardiac critical care conditions ✓ Medications to improve cardiac contractility ✓ Medications in the management of hypertension in critical care ✓ Medications in the management of heart failure ✓ Medications in the management of angina pectoris and myocardial infarction ✓ Medications in the management of dysrhythmias, Heart block and conduction disturbances ✓ Medications in the management of Pulmonary hypertension, Valvular heart disease, Cardiomyopathy ✓ Medications in the management of Atherosclerotic disease of aorta and Peripheral artery disease ✓ Medications in the management of Deep vein thrombosis ✓ Institutional Protocols/ Standing orders for cardiac critical care emergencies
IV.	6		Pharmacology and Pulmonary alterations in Critical care

			• Mechanical Ventilation ▪ Introduction ▪ Medications used on patients with mechanical ventilator ▪ Mechanical ventilation impact on pharmacotherapy – Sedation and analgesia, Neuromuscular blockade, Nutrition • Pulmonary critical care conditions • Medications in the management of Status asthmaticus • Medications in the management of Pulmonary edema • Medications in the management of Pulmonary embolism • Medications in the management of Acute respiratory failure and Acute respiratory distress syndrome • Medications in the management of Chest trauma • Medications in the management of Chronic obstructive pulmonary disease • Medications in the management of Pneumonia • Medications in the management of Pleural effusion • Medications in the management of Atelectasis • Standing orders for pulmonary critical care emergencies
V.	6		Pharmacology and Neurological alterations in Critical care • Pain ▪ NSAID ▪ Opioid analgesia • Sedation ▪ Gamma aminobutyric acid stimulants ▪ Dexmedetomidine ▪ Analgo sedation ▪ Delirium ▪ Haloperidol ▪ Atypical anti psychotics ▪ Medications used for local and general

			anesthesia ▪ Local- Amides, esters, and miscellaneous agents ▪ General – Gases, Volatile liquids, IV anesthetics ▪ Non anesthetic drugs adjuncts to surgery ▪ Paralytic Medications ▪ Non-depolarizing and depolarizing agents ▪ Anxiolytics ▪ Autonomic drugs ▪ Adrenergic agents/ Sympathomimetics ▪ Adrenergic blocking agents ▪ Cholinergic agents ▪ Anti cholinergic agents ▪ Medications in the management of anxiety and insomnia ▪ Antidepressants ▪ Benzodiazepines ▪ Barbiturates ▪ Neurological critical care conditions ▪ Medications in the management of psychoses ▪ Medications in the management of acute head and spinal cord injury with elevated intracranial pressure ▪ Medications in the management of muscle spasm ▪ Medications in the management of spasticity ▪ Medications in the management of Cerebro vascular disease and cerebro vascular accident ▪ Medications in the management of Encephalopathy ▪ Medications in the management of Gillian Bare syndrome and Myasthenia gravis ▪ Medications in the management of Brain herniation syndrome ▪ Medications in the management of Seizure disorder ▪ Medications in the management of Coma, Unconsciousness and persistent vegetative state ▪ Appropriate nursing care to safeguard patient ▪ Standing orders for neurology critical care emergencies
VI.	6		Pharmacology and Nephrology alterations in Critical care

			• Diuretics • Fluid replacement ☐ Crystalloids ☐ Colloids • Electrolytes ☐ Sodium ☐ Potassium ☐ Calcium ☐ Magnesium ☐ Phosphorus • Nephrology critical care conditions ☐ Medications in the management of Acute / Chronic renal failure ☐ Medications in the management of Acute tubular necrosis ☐ Medications in the management of Bladder trauma ☐ Medications in the management of Electrolyte imbalances ☐ Medications in the management of Acid base imbalances ☐ Medications used during dialysis • Standing orders for nephrology critical care emergencies
VII.	6		Pharmacology and Gastrointestinal alteration in Critical care • Anti-ulcer drugs • Laxatives • Antidiarrheals • Antiemetics • Pancreatic enzymes • Nutritional supplements, Vitamins and minerals • Gastrointestinal critical care conditions ▪ Medications in the management of Acute GI bleeding, Hepatic failure ▪ Medications in the management of Acute pancreatitis ▪ Medications in the management of Abdominal injury ▪ Medications in the management of Hepat

			icencephalopathy • Medications in the management of Acute intestinal obstruction • Medications in the management of Perforative peritonitis • Medications used during Gastrointestinal surgeries and Liver transplant • Standing orders for gastrointestinal critical care emergencies
VIII.	6		Pharmacology and Endocrine alterations in Critical care • Hormonal therapy • Insulin and Other hypoglycemic agents • Endocrine critical care conditions ▪ Medications in the management of Diabetic ketoacidosis, Hyperosmolar non ketotic coma ▪ Medications in the management of hypoglycemia ▪ Medications in the management of Thyroid storm ▪ Medications in the management of Myxedema coma ▪ Medications in the management of Adrenal crisis ▪ Medications in the management of SIADH ▪ Standing orders for endocrine critical care emergencies
IX.	6		Pharmacology and Hematology alterations in Critical care • Anticoagulants • Antiplatelet drugs • Thrombolytics • Hemostatics/antifibrinolytics • Hematopoietic growth factors ▪ Erythropoietin ▪ Colony stimulating factors ▪ Platelet enhancers • Blood and blood products

			▪ Whole blood, Packed red blood cells, Leukocyte-reduced red cells, Washed red blood cells, Fresh frozen plasma, Cryoprecipitate ▪ Albumin ▪ Transfusion reactions, Transfusion administration process • Vaccines • Immunostimulants • Immunosuppressant • Chemotherapeutic drugs— Alkylating agents, antimetabolites, anti-tumor antibiotics, alkaloids, hormones and hormone antagonist, corticosteroids, gonadal hormones, anti-estrogens, androgen antagonists, biologic response modifiers • Hematology critical care conditions ▪ Medications in the management of Anemia in critical illness ▪ Medications in the management of DIC ▪ Medications in the management of Thrombocytopenia and acute leukemia ▪ Medications in the management of Heparin-induced thrombocytopenia ▪ Medications in the management of Sickle cell anemia ▪ Medications in the management of Tumor lysis syndrome • Standing orders for hematology critical care emergencies
X.	4		Pharmacology and Skin alterations in Critical care • Hematology critical care conditions ▪ Medications used in burn management ▪ Medications used in wound management

			nt • Standing orders for skin critical care emergencies
XI.	8		Pharmacology and Multi system alterations in Critical care • Medications in the management of shock, sepsis, Multiple Organ Dysfunction, Systemic inflammatory response syndrome, • Anaphylaxis • Medications in the management of Trauma, Injuries (Heat, Electrical, Near Hanging, Near drowning) • Medications in the management of bites, Drug overdose and Poisoning • Medications in the management of fever in critical care setting • Antipyretics • NSAIDs • Corticosteroids • Standing orders for multi system critical care emergencies
XII.	8		Pharmacology and Infections in Critical care • Antibacterial drugs ☐ Introduction ☐ Beta lactams – Penicillins, cephalosporins, monobactams, carbapenams, ☐ Aminoglycosides ☐ Anti MRSA ☐ Macrolides ☐ Quinolones ☐ Miscellaneous – lincosamide group, nitroimidazole, tetracyclins and chloramphenicol, polymyxins, anti malarias, anti fungals, anti virals • Anti fungal drugs • Anti protozoal drugs • Anti viral drugs • Choice of antimicrobials • Infectious critical care conditions ☐ Medications in the management of HIV, Tetanus, SARS, Rickettsiosis, Leptospirosis, Dengue, Malaria,

			Chickungunya, Rabies, Avian flu and Swine flu • Standing orders for infectious critical care emergencies

Course Outcomes (Cos)

CO1	Applies the physical assessment principles in developing appropriate system wise examination skills
CO2	Uses advanced health assessment skills to differentiate between variations of normal and abnormal findings
CO3	Orders screening and diagnostic tests based on the examination findings
CO4	Analyzes the results of various investigations and works collaboratively for development of diagnoses
CO5	Documents assessment, diagnosis, and management and monitors follow up care in partnership with health care team members, patients, and families
CO6	Analyzes the pathophysiological changes relevant to each critical illness recognizing the value of diagnosis, treatment, care and prognosis

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	2	3	3	3	2	3	3	3	3		3	3	3	2
CO2		2	3		1				3			3		2	1
CO3		1				1		1				3	1	3	
CO4	3			3		3				2	2			3	3
CO5	3	3		3		2	3	1		2	2		3		2
CO6	2	3	2	2	2	2	2	2	3	2	2	2	3		2

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

Activities:

- Framing philosophy, aims and objectives.
- Lesson Planning.
- Microteaching-2.
- Conduct practice teachings using different teaching strategies -10 (like

lecture cum discussion, demonstration- lab method, field trips, seminars, project, role play, panel discussion, clinical method etc)

- Preparation and utilization of instructional Aids using different media.
- Develop course plans, unit plans, rotation plans.
- Continuing education workshops.
- Annotated bibliography.
- Construct, administer and evaluate tools (objective & essay type test, observation checklist, rating scale etc.,
- Observe and practice application of various non-standardized tests (intelligence, Aptitude, Personality, Sociometry, physical & mental disability tests.)

Methods of Teaching

- Lecture cum discussion
- Demonstration/ Return demonstration
- Seminar /Presentations
- Projectwork
- Workshop

Methods of evaluation

- Tests
- Presentation
- Projectwork
- Written assignments

Internal Assessment

Techniques

Test- (2 tests)

Assignment

Seminar/presentation

Weightage

50

25

25

100

Practical – Internal assessment

Learning resource material	25
Practice Teaching	50
Conduct Workshop	25
/Short Term Course	

Practical – external assessment

Practice teaching- 1-	50
Preparation/use of learning resource material-1	25
Construction of tests/rotation plan.	25

(19AHPA06) ADVANCED HEALTH/PHYSICAL ASSESSMENT IN CRITICAL CARE NURSING

PLACEMENT-IYEAR

Hours of instruction

Theory: 69hours Credit: 5.5

Practical:46 hours Credit:36.0

This course was introduced to teach about the advanced practices in nursing and how to apply that in the care of patients with critically illness.

Objectives

At the end of the course, students will be able to:

- Applies the physical assessment principles in developing appropriate system wise examination skills
- Uses advanced health assessment skills to differentiate between variations of normal and abnormal findings
- Orders screening and diagnostic tests based on the examination findings
- Analyzes the results of various investigations and works collaboratively for development of diagnoses
- Documents assessment, diagnosis, and management and monitors follow up care in partnership with health care team members, patients, and families

Course Content

Units	Hours		Course Content
	Theory	Practical	
I.	4		Introduction • History taking • Physical examination
II.	6		Cardiovascular system • Cardiac history • Physical examination • Cardiac laboratory studies – biochemical

			markers, hematological studies • Cardiac diagnostic studies – Electrocardiogram, echocardiography, stress testing, radiological imaging
III.	6		Respiratory system • History • Physical examination • Respiratory monitoring – Arterial blood gases, pulse oximetry, end-tidal carbondioxide monitoring • Respiratory Diagnostic tests – Chest radiography, ventilation perfusion scanning, pulmonary angiography, brondhoscopy, thoracentesis, sputum culture, pulmonary function test
IV.	6		Nervous system • Neurological history • General physical examination • Assessment of cognitive function • Assessment of cranial nerve function • Motor assessment – muscle strength, power, and reflexes • Sensory assessment – dermatome assessment • Neurodiagnostic studies – CT scan, MRI, PET
V.	6		Renal system • History • Physical examination • Assessment of renal function • Assessment of electrolytes and acid base balance • Assessment of fluid balance
VI.	4		Gastrointestinal system • History • Physical examination • Nutritional assessment • Laboratory studies – Liver function studies, blood parameters, stool test • Diagnostic studies – radiological and imaging studies, endoscopic studies
VII.	4		Endocrine system • History, physical examination, laboratory studies, and diagnostic studies of - Hypothalamus and pituitary gland

			- Thyroid gland - Parathyroid gland - Endocrine gland - Adrenal gland
VIII.	4		Hematological system • History • Physical examination • Laboratory studies - blood parameters • Diagnostic studies – bone marrow aspiration
IX.	3		Integumentary system • History • Physical examination • Pathological examination – tissue examination
X.	6		Musculoskeletal system • History • Physical examination – gait assessment, joint assessment, • Laboratory studies – blood parameters (inflammatory enzymes, uric acid) • Diagnostic studies - Radiological and imaging studies, endoscopic studies
XI.	4		Reproductive system • History • Physical examination • Laboratory studies • Diagnostic studies
XII.	4		Sensory Organs • History • Physical examination • Laboratory studies • Diagnostic studies - Radiological and imaging studies, endoscopic studies
XIII.	6		Assessment of children • Growth and development • Nutritional assessment • Specific system assessment
XIV.	6		Assessment of older adults • History • Physical assessment • Psychological assessment

Course Outcomes (Cos)

CO1	Applies the physical assessment principles in developing appropriate system wise examination skills
CO2	Uses advanced health assessment skills to differentiate between variations of normal and abnormal findings
CO3	Orders screening and diagnostic tests based on the examination findings
CO4	Analyzes the results of various investigations and works collaboratively for development of diagnoses
CO5	Documents assessment, diagnosis, and management and monitors follow up care in partnership with health care team members, patients, and families
CO6	Analyzes the pathophysiological changes relevant to each critical illness recognizing the value of diagnosis, treatment, care and prognosis

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	2	3	3	3	2	3	3	3	3		3	3	3	2
CO2		2	3		1				3			3		2	1
CO3		1				1		1				3	1	3	
CO4	3			3		3				2	2			3	3
CO5	3	3		3		2	3	1		2	2		3		2
CO6	2	3	2	2	2	2	2	2	3	2	2	2	3		2

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

Activities:

- Framing philosophy, aims and objectives.
- Lesson Planning.
- Microteaching-2.
- Conduct practice teachings using different teaching strategies -10 (like lecture cum discussion, demonstration- lab method, field trips, seminars, project, role play, panel discussion, clinical method etc)
- Preparation and utilization of instructional Aids using different media.
- Develop course plans, unit plans, rotation plans.
- Continuing education workshops.
- Annotated bibliography.
- Construct, administer and evaluate tools (objective & essay type test,

observation checklist, rating scale etc.,

- Observe and practice application of various non-standardized tests (intelligence, Aptitude, Personality, Sociometry, physical & mental disability tests.)

Methods of Teaching

- Lecture cum discussion
- Demonstration/ Return demonstration
- Seminar /Presentations
- Projectwork
- Workshop

Methods of evaluation

- Tests
- Presentation
- Projectwork
- Written assignments

Internal Assessment

Techniques

Test- (2 tests)

Assignment

Seminar/presentation

Weightage

50

25

25

100

Practical – Internal assessment

Learning resource material

25

Practice Teaching

50

Conduct Workshop

25

/Short Term Course

Practical – external assessment

Practice teaching- 1-	50
Preparation/use of learning resource material-1	25
Construction of tests/rotation plan.	25

(19FCCN07) FOUNDATIONS OF CRITICAL CARE NURSING PRACTICE

PLACEMENT-II YEAR

Hours of instruction

Theory: 92 hours Credit: 10.0

Practical: 46 hours Credit: 17.6

This course was introduced to teach about the advanced practices in nursing and how to apply that in the care of patients with critically illness.

Objectives

At the end of the course, students will be able to:

- Applies advanced concepts of critical care nursing based on sound knowledge of these concepts
- Uses invasive and non-invasive technology and interventions to assess, monitor and promote physiologic stability
- Works in collaboration with other healthcare team members
- Consults with and is consulted by other healthcare professionals
- Provides nursing care related to health protection, disease prevention, anticipatory guidance, counseling, management of critical illness, palliative care and end-of-life care
- Uses advanced skills in complex and unstable environments
- Applies ethically sound solutions to complex issues related to individuals, populations and systems of care
- Practices principles of infection control relevant to critical care
- Practices independently within the legal framework of the country towards the interest of patients, families and communities
- Develops practice that is based on scientific evidence

- Uses applicable communication, counseling, advocacy and interpersonal skills to initiate ,developand discontinuetherapeuticrelationships
- Createsandmaintainsasafetherapeuticenvironmentusingriskmanagementstrategiesand qualityimprovement
- Adaptspracticetothesocial,culturalandcontextualmilieu

Course Content

Units	Hours		Course Content
	Theory	Practical	
I.	10	4	IntroductiontoCriticalCareNursing • Introductiontothecourse • Review of anatomy and physiology of vital organs (Brain, Spinal Cord,Lungs, Heart, Kidney, Liver, Pancrease, Thyroid, Adrenal and Pituitarygland) • Historicalreview-Progressivepatientcare(PPC) • Conceptsofcriticalcare nursing • Principlesofcriticalcare nursing • Scopeofcriticalcarenursing • Criticalcareunitsetup(includingtypesofICU,equipmentssupplies,beds and accessories, use and care of various type of monitors &ventilators,Flow sheets, supplylinesandtheenvironment) • PersonnelinICU ➤ Nursingstaff ➤ Doctors ➤ Criticalcaretechnicians ➤ Ancillarystaff • Technologyincriticalcare • Healthywork environment • Futurechallengesincriticalcarenursing
II.	5	3	➤ Maintaintemperature ➤ Organprotection ➤ Nutritionalsupport ➤ Infectioncontrol ➤ Physiotherapyandrehabilitation ➤ Familyvisitinghours • Restraintsincriticalcare–physical,chemicalandalternativestorestraints

			• Death in critical care unit • Transport of the critically ill – By air ambulance and surface ambulance • Stress and burnout syndrome among health team members
III.	10	5	Appraisal of the critically ill Triaging concept, process and principles Assessment of the critically ill • General assessment • Respiratory assessment • Cardiac assessment • Renal assessment • Neurological assessment • Gastrointestinal assessment • Endocrine assessment • Musculoskeletal assessment • Integumentary assessment Monitoring of the critically ill • Arterial blood gas (ABG) • Capnography • Hemodynamics • Electrocardiography (ECG) • Glasgow Coma Scale (GCS) • Richmond agitation-sedation scale (RASS) • Pain score • Braden score Evaluation of the critically ill • Evaluation of pre critical illness • Evaluation of critical illness • Outcome and scoring systems ➤ Acute Physiology and Chronic Health Evaluation (APACHE I-IV) ➤ Mortality probability model (MPM I, II) ➤ Simplified acute physiology score (SAPS I, II) ➤ Organ system failure ➤ Full outline of organ responsiveness (FOUR)
IV.	14	4	• Principles of cardio-pulmonary-brain resuscitation • Emergencies in critical care: CPR ➤ BLS ➤ ACLS • Airway management

			• Oxygenation and oximetry, care of patient with oxygen delivery devices • Ventilation and ventilator support (including humidification and inhaled drug therapy), care of patient with invasive and noninvasive ventilation • Circulation and perfusion (including hemodynamic evaluation and waveform graphics) • Fluids and electrolytes (review), care of patient with imbalances of fluid and electrolytes • Evaluation of acid base status • Thermoregulation, care of patient with hyper/hypothermia • Liberation from life support (Weaning) • Glycemic control, care of patient with glycemic imbalances
V.	8	3	Pain and Management • Pain in Critically ill patients • Pain – Types, Theories • Physiology, Systemic responses to pain and psychology of pain Review • Acute pain services • Pain assessment – Pain scales, behavior and verbalization • Pain management-pharmacological (Opioids, benzodiazepines, propofol, Alpha agonist, Tranquilisers, Neuromuscular blocking agents)
VI.	8	3	Psychosocial and spiritual alterations: Assessment and management • Stress and psychoneuroimmunology • Posttraumatic stress reaction • ICU Psychosis, Anxiety, Agitation, Delirium • Alcohol withdrawal syndrome and delirium tremens • Collaborative management • Sedation and Relaxants • Spiritual challenges in critical care • Coping with stress and illness • Care of family of the critically ill • Counselling and communication
VII.	4	3	Patient and family education • Challenges of patient and family education • Process of adult learning • Factors affecting teaching learning process - Informational needs of families in critical care

VIII.	5		Nutrition Alterations and Management in critical care are • Nutrient metabolism and alterations • Assessing nutritional status • Nutrition support • Nutrition and systemic alterations • Care of patient on enteral and parenteral nutrition⁴
IX.	5	3	Sleep alterations and management⁵ • Normal human sleep⁵ • Sleep pattern disturbance • Sleep apnea syndrome
X.	8	3	Infection control in critical care • Nosocomial infection in intensive care unit; methyl resistant staphylococcus aureus (MRSA) and other recently identified strains • Disinfection, Sterilization, • Standard safety measures, • Prophylaxis for staff • Antimicrobial therapy-review
XI.	5	5	Legal and ethical issues in critical care-Nurse's role Legal issues • Issues giving rise to civil litigation • Related laws in India • Medical futility • Administrative law: Professional regulation • Tort law: Negligence, professional malpractice, intentional torts, wrongful death, defamation, assault and battery • Constitutional Law: Patient decision making Ethical Issues • Difference between morals and ethics • Ethical principles, ethical decision making in critical care, Strategies for promoting ethical decision making, holding and withdrawing treatment, Nurses' role • Scarce resource in critical care • Brain death, Organ donation & Counselling, • Do Not Resuscitate (DNR), Euthanasia, Living will • Standard safety measures • Nursing audit relevant to critical care • Staffing
XII.	2	4	Evidence based practice in critical care nursing • Evidence based practice in critical care

			• Barrierstoimplementation • Strategiestopromoteimplementation
XIII.	10	6	IntroductiontoCriticalCareNursing • Introductiontothecourse • Review of anatomy and physiology of vital organs (Brain, Spinal Cord,Lungs, Heart, Kidney, Liver, Pancrease, Thyroid, Adrenal and Pituitarygland) • Historicalreview-Progressivepatientcare(PPC) • Conceptsofcriticalcare nursing • Principlesofcriticalcare nursing • Scopeofcriticalcarenursing • Criticalcareunitsetup(includingtypesofICU,equipmentssupplies,beds and accessories, use and care of various type of monitors &ventilators,Flow sheets, supplylinesandtheenvironment) • PersonnelinICU ➤ Nursingstaff ➤ Doctors ➤ Criticalcaretechnicians ➤ Ancillarystaff • Technologyincriticalcare • Healthywork environment • Futurechallengesincriticalcarenursing

Course Outcomes (Cos)

CO1	Appliesadvancedconceptsofcriticalcarenursingbasedonsoundknowledgeoftheseconcept s Usesinvasiveandnon-invasivetechnologyandinterventionstoassess,monitorandpromote physiologic stability
CO2	Worksincollaborationwithotherhealthcareteam members Consultswithandisconsultedbyotherhealthcareprofessionals
CO3	Provides nursing care related to health protection, disease prevention, anticipatoryguidance,counselling,managementofcriticalillness,palliativecareandendoflif ecare Usesadvancedskillsincomplex andunstableenvironments
CO4	Appliesethicallysoundstosolutionstocomplexissuesrelatedtoindividuals,populationsandsy stemsofcare Practicesprinciplesofinfectioncontrolrelevanttocriticalcare
CO5	Practicesindependentlywithinthelegalframeworkofthecountrytowards theinterestofpatients,familiesandcommunities
CO6	Uses applicable communication, counseling, advocacy and interpersonal skills to initiate ,developand discontinuetherapeuticrelationships

	Creates and maintains a safe therapeutic environment using risk management strategies and quality improvement

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	2	3	3	3	2	3	3	3	3		3	3	3	2
CO2		2	3		1				3			3		2	1
CO3		1				1		1				3	1	3	
CO4	3			3		3				2	2			3	3
CO5	3	3		3		2	3	1		2	2		3		2
CO6	2	3	2	2	2	2	2	2	3	2	2	2	3		2

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

Activities:

- Framing philosophy, aims and objectives.
- Lesson Planning.
- Microteaching-2.
- Conduct practice teachings using different teaching strategies -10 (like lecture cum discussion, demonstration- lab method, field trips, seminars, project, role play, panel discussion, clinical method etc)
- Preparation and utilization of instructional Aids using different media.
- Develop course plans, unit plans, rotation plans.
- Continuing education workshops.
- Annotated bibliography.
- Construct, administer and evaluate tools (objective & essay type test, observation checklist, rating scale etc.,
- Observe and practice application of various non-standardized tests (intelligence, Aptitude, Personality, Sociometry, physical & mental disability tests.)

Methods of Teaching

- Lecture cum discussion
- Demonstration/ Return demonstration
- Seminar /Presentations
- Projectwork
- Workshop

Methods of evaluation

- Tests
- Presentation
- Projectwork
- Written assignments

Internal Assessment

Techniques

Test- (2 tests)

Assignment

Seminar/presentation

Weightage

50

25

25

100

Practical – Internal assessment

Learning resource material

25

Practice Teaching

50

Conduct Workshop

25

/Short Term Course

Practical – external assessment

Practice teaching- 1-

50

Preparation/use of learning resource material-1

25

Construction of tests/rotation plan.

25

List of skills to be practiced in the skill lab (46 hours include demonstration by the faculty and practice by the students)

- CPR(BLS and ACLS)
- Airway Management
 - Laryngeal mask airway
 - Cuff inflation and anchoring the tube
 - Care of ET tube
 - Tracheostomy care
 - Suctioning—open/closed
 - Chest physiotherapy
- Oxygenation and oximetry, care of patient with oxygen delivery devices
 - Devices to measure oxygen/oxygenation
 - ✓ Fuel cell
 - ✓ Paramagnetic oxygen analyzer
 - ✓ PO₂ electrodes-Clark electrodes
 - ✓ Transcutaneous oxygen electrodes
 - ✓ Oximetry—Pulse oximetry, Venous oximetry
 - Capnography
 - Noninvasive ventilation
 - ✓ Low flow variable performance devices: nasal catheters/cannulae/double nasal prongs, face mask, face mask with reservoir bags
 - ✓ High flow fixed performance devices: Entrainment (Venturi) devices, NIV/CPAP/Anesthetic masks, T pieces, breathing circuits
 - Postural drainage
- Ventilation and ventilator support
 - Connecting to ventilator
 - Weaning from ventilator
 - Extubation
 - Humidifiers
 - Nebulizers—jet, ultrasonic
 - Inhalation therapy—metered dose inhalers (MDI), dry powder inhalers (DPI)
- Circulation and perfusion (including hemodynamic evaluation and waveform graphics)
 - Invasive blood pressure monitoring
 - Non-invasive BP monitoring
 - Venous pressure (Peripheral, Central and Pulmonary artery occlusion pressure)
 - Insertion and removal of arterial line
 - Insertion and removal of central line

- Cardiac output (PiCCO)
- Electrocardiography (ECG)
- Waveforms
- Fluids and electrolytes
 - Fluid calculation and administration (crystalloids and colloids)
 - Administration of blood and blood products
 - Inotrope calculation, titration and administration
 - Cardiac glycosides – digoxin
 - Sympathomimetics – Dopamine, dobutamine, epinephrine, isoproterenol, norepinephrine, phenylephrine
 - Phosphodiesterase inhibitors – amrinone, milrinone
 - Electrolyte correction (Sodium, potassium, calcium, phosphorus, magnesium)
 - Use of fluid dispenser and infusion pumps
- Evaluation of acid base status
 - Arterial blood gas (ABG)
- Thermoregulation, care of patient with hyper/hypothermia
 - Temperature probes
 - Critical care management of hyper and hypothermia
- Glycemic control, care of patient with glycemic imbalances
 - Monitoring GRBS
 - Insulin therapy (sliding scale and infusion)
 - Management of Hyperglycemia – IV fluids, insulin therapy, potassium supplementation
 - Management of hypoglycemia – Dextrose IV
- Pharmacological management of pain, sedation, agitation, and delirium
 - Calculation, loading and infusion of – Morphine, Fentanyl, Midazolam, Lorazepam, Diazepam, Propofol, Clonidine, Desmetomidine, Haloperidol
- Counselling, Family education

(19CCN08) CRITICAL CARE NURSING - I

PLACEMENT-II YEAR

Theory: 92 hours Credit: 10.0

Hours of instruction

Practical: 69 hours Credit: 26.2

This course was introduced to teach about the advanced practices in nursing and how to apply that in the care of patients with critically illness.

Objectives

At the end of the course, students will be able to:

- Applies advanced concepts of critical care nursing based on sound knowledge of these concepts
- Uses invasive and non-invasive technology and interventions to assess, monitor and promote physiologic stability
- Works in collaboration with other healthcare team members
- Consults with and is consulted by other healthcare professionals
- Provides nursing care related to health protection, disease prevention, anticipatory guidance, counseling, management of critical illness, palliative care and end-of-life care
- Uses advanced skills in complex and unstable environments
- Applies ethically sound solutions to complex issues related to individuals, populations and systems of care
- Practices principles of infection control relevant to critical care
- Practices independently within the legal framework of the country towards the interest of patients, families and communities
- Develops practice that is based on scientific evidence

- Uses applicable communication, counseling, advocacy and interpersonal skills to initiate ,developand discontinuetherapeuticrelationships
- Createsandmaintainsasafetherapeuticenvironmentusingriskmanagementstrategiesand qualityimprovement
- Adaptspracticetothesocial,culturalandcontextualmilieu

Course Content

Units	Hours		Course Content
	Theory	Practical	
I.	6	10	Introduction • Reviewof anatomyandphysiologyofvital organs • Reviewofassessmentandmonitoringofthecriticallyill
II.	15	10	Cardiovascularalterations • ReviewofClinicalassessment,pathophysiology, andpharmacology • Specialdiagnosticstudies • Cardiovascularconditionsrequiringcritical caremanagement ➤ Hypertensivecrisis ➤ Cardiacarrhythmias ➤ Heartblock andconductiondisturbances ➤ Coronaryheartdisease ➤ Myocardialinfarction ➤ Pulmonaryhypertension ➤ Valvularheartdisease ➤ Atheroscleroticdiseaseofaorta ➤ Peripheralartery disease ➤ Cardiomyopathy ➤ Heartfailure ➤ Deepveinthrombosis • Cardiovasculartherapeuticmanagement ➤ Cardiactransplant ➤ Pacemakers ➤ Cardioversion ➤ Defibrillation ➤ Implantablecardiovertdefibrillators, ➤ Thrombolytictherapy ➤ Radiofrequencycatheterablation

			➤ Percutaneous Transluminal Coronary Angioplasty ➤ Cardiac surgery – CABG/MICAS, Valvular surgery, vascular surgery ➤ Mechanical circulatory assistive devices – Intra aortic balloon pump ➤ Effects of cardiovascular medications • Recent advances and development
III.	15	10	• Pulmonary conditions requiring critical care management • Status asthmaticus • Pulmonary edema • Pulmonary embolism • Acute respiratory failure • Acute respiratory distress syndrome • Chest trauma • Chronic obstructive pulmonary disease • Pneumonia • Pleural effusion • Atelectasis • Long term mechanical ventilator dependence • Pulmonary therapeutic management • Thoracic surgery • Bronchial hygiene: Nebulization, deep breathing and coughing exercise, chest physiotherapy and postural drainage • Chest tube insertion and care of patient with chest drainage • Recent advances and development •
IV.	14	10	Neurological alterations • Review of Clinical assessment, pathophysiology, and pharmacology • Special diagnostic studies • Neurological conditions requiring critical care management • Cerebrovascular disease and cerebrovascular accident • Encephalopathy • Guillain Barre syndrome and Myasthenia gravis • Brain herniations syndrome • Seizure disorder • Coma, Unconsciousness

			• persistent vegetative state • Head injury • Spinal cord injury • Thermoregulation • Neurologic therapeutic management ➤ Intracranial pressure– Assessment and management of intracranial hypertension ➤ Craniotomy • Recent advances and development
V.	15	9	• Acute tubular necrosis • Bladder trauma • Nephrology therapeutic management • Renal Replacement therapy: Dialysis • Renal transplant • Recent advances and development
VI.	12	10	Gastrointestinal alterations • Review of Clinical assessment, pathophysiology, and pharmacology • Special diagnostic studies • Gastrointestinal conditions requiring critical care management • Acute GI bleeding • Hepatic failure • Acute pancreatitis • Abdominal injury • Hepatic encephalopathy • Acute intestinal obstruction • Perforative peritonitis • Gastrointestinal therapeutic management • Gastrointestinal surgeries • Liver transplant • Recent advances and development
VII.	10	10	Endocrine alterations • Review of Clinical assessment, pathophysiology, and pharmacology • Special diagnostic studies • Endocrine conditions requiring critical care management • Neuroendocrinology of stress and critical illness • Diabetic ketoacidosis Hyperosmolar nonketotic coma • hypoglycemia

			• Thyroid storm • Myxedema coma • Adrenal crisis • SIADH • Endocrine therapeutic management • Recent advances and development

Course Outcomes (Cos)

CO1	Applies advanced concepts of critical care nursing based on sound knowledge of these concepts Uses invasive and non-invasive technology and interventions to assess, monitor and promote physiologic stability
CO2	Works in collaboration with other healthcare team members Consults with and is consulted by other healthcare professionals
CO3	Provides nursing care related to health protection, disease prevention, anticipatory guidance, counseling, management of critical illness, palliative care and end of life care Uses advanced skills in complex and unstable environments
CO4	Applies ethically sound solutions to complex issues related to individuals, populations and systems of care Practices principles of infection control relevant to critical care
CO5	Practices independently within the legal framework of the country towards the interest of patients, families and communities
CO6	Uses applicable communication, counseling, advocacy and interpersonal skills to initiate, develop and discontinue therapeutic relationships Creates and maintains a safe therapeutic environment using risk management strategies and quality improvement

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	2	3	3	3	2	3	3	3	3		3	3	3	2
CO2		2	3		1				3			3		2	1
CO3		1				1		1				3	1	3	
CO4	3			3		3				2	2			3	3
CO5	3	3		3		2	3	1		2	2		3		2
CO6	2	3	2	2	2	2	2	2	3	2	2	2	3		2

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

Activities:

- Framing philosophy, aims and objectives.
- Lesson Planning.
- Microteaching-2.
- Conduct practice teachings using different teaching strategies -10 (like lecture cum discussion, demonstration- lab method, field trips, seminars, project, role play, panel discussion, clinical method etc)
- Preparation and utilization of instructional Aids using different media.
- Develop course plans, unit plans, rotation plans.
- Continuing education workshops.
- Annotated bibliography.
- Construct, administer and evaluate tools (objective & essay type test, observation checklist, rating scale etc.,
- Observe and practice application of various non-standardized tests (intelligence, Aptitude, Personality, Sociometry, physical & mental disability tests.)

Methods of Teaching

- Lecture cum discussion
- Demonstration/ Return demonstration
- Seminar /Presentations
- Projectwork
- Workshop

Methods of evaluation

- Tests
- Presentation
- Projectwork
- Written assignments

Internal Assessment**Techniques**

Test- (2 tests)

Assignment

Weightage

50

25

Seminar/presentation	25

	100

Practical – Internal assessment

Learning resource material	25
Practice Teaching	50
Conduct Workshop	25
/Short Term Course	

Practical – external assessment

Practice teaching- 1-	50
Preparation/use of learning resource material-1	25
Construction of tests/rotation plan.	25

List of skills to be practiced in the skill lab (69 hour include demonstration by the faculty and practice by the students).

- **Cardiovascular alterations**
 - Thrombolytic therapy
 - Use of equipments and their settings – Defibrillator, PiCCo, Pacemakers, IABP
- **Pulmonary alterations**
 - Tracheostomy Care
 - Nebulization
 - Chest physiotherapy
 - Chest tube insertion
 - Chest drainage
- **Neurological alterations**
 - Monitoring GCS
 - Conscious and comam monitoring
 - Monitoring ICP
 - Sedation score
 - Brain Death Evaluation

- **Nephrologyalterations**

- Dialysis
 - Primingofdialysismachine
 - Preparingpatientfordialysis
 - Cannulatingfordialysis
 - Startingand closingdialysis

- **Gastrointestinalalterations**

- Abodminalpressuremonitoring
- Calculationofcalorie andproteinrequirements
- Special diets – sepsis, respiratory failure, renal failure, hepatic failure, cardiacfailure,weaning, pancreatitis
- Enteralfeeding–NG/Gastrostomy/Pharyngeal/Jejunostomyfeeds
- Totalparenteralnutrition

- **Endocrinealterations**

- Collection of blood samples for cortisol levels, sugar levels, and thyroid hormonelevels
- Calculationandadministrationofcorticosteroids
- Calculationandadministrationof Insulin–Review

(19CCN09) CRITICAL CARE NURSING - II

PLACEMENT-II YEAR

Theory: 92 hours Credit: 10.0

Hours of instruction

Practical: 69 hours Credit: 26.2

This course was introduced to teach about the advanced practices in nursing and how to apply that in the care of patients with critically illness.

Objectives

At the end of the course, students will be able to:

- Applies advanced concepts of critical care nursing based on sound knowledge of these concepts
- Uses invasive and non-invasive technology and interventions to assess, monitor and promote physiologic stability
- Works in collaboration with other healthcare team members
- Consults with and is consulted by other healthcare professionals
- Provides nursing care related to health protection, disease prevention, anticipatory guidance, counseling, management of critical illness, palliative care and end-of-life care
- Uses advanced skills in complex and unstable environments
- Applies ethically sound solutions to complex issues related to individuals, populations and systems of care
- Practices principles of infection control relevant to critical care
- Practices independently within the legal framework of the country towards the interest of patients, families and communities
- Develops practice that is based on scientific evidence

- Uses applicable communication, counseling, advocacy and interpersonal skills to initiate ,developand discontinuetherapeuticrelationships
- Createsandmaintainsasafetherapeuticenvironmentusingriskmanagementstrategiesand qualityimprovement
- Adaptspracticetothesocial,culturalandcontextualmilieu

Course Content

Unit s	Hours		Course Content
	Theor y	Practica l	
I.	10	7	Hematologicalalterations • ReviewofClinicalassessment,pathophysiology,andpharmacology • Specialdiagnosticstudies • Hematologyconditionsrequiringcriticalcaremanagement ➢ DIC ➢ Thrombocytopenia ➢ Heparininducedthrombocytopenia ➢ Sicklecellanemia ➢ Tumorlyssysndrome ➢ Anemiaincriticalillness • Hematologytherapeutic management ➢ Autologusbloodtransfusion ➢ bonemarrowtransplantation • Recentadvances anddevelopment
II.	8	7	Skinalterations • ReviewofClinicalassessment,pathophysiology,andpharmacology • Specialdiagnosticstudies • Conditions requiringcriticalcaremanagement ➢ Burns ➢ Wounds • Therapeuticmanagement ➢ Reconstructivesurgeries forburns ➢ Managementofwounds • Recentadvances anddevelopment
III.	12	10	Multisystemalterationsrequiringcriticalcare • Trauma • Sepsis

			• Shock • MultipleOrganDysfunction • Systemicinflammatoryresponsesyndrome • Anaphylaxis • DIC • Otherinjuries(Heat,Electrical,NearHanging,Neardrowning) • Envenomation • Drugoverdose • Poisoning
IV.	8	7	Specificinfectionsincriticalcare • HIV • Tetanus • SARS • Rickettsiosis • Leptospirosis • Dengue • Malaria • Chickungunya • Rabies • Avianflu • Swineflu
V.	9	10	Criticalcarein Obstetrics • Physiologicalchangesinpregnancy • Conditionsrequiringcriticalcare ➤ Antepartumhemorrhage ➤ PIH ➤ Obstructedlabor ➤ Ruptureduterus ➤ PPH ➤ Puperalsepsis ➤ Obstetricalshock ➤ HELLPsyndrome ➤ DIC ➤ Amnioticfluidembolism ➤ ARDS ➤ Trauma
VI.	10	7	➤ Acutebronchopneumonia ➤ Traumainchildren • Selectedpediatricchallenges ➤ Ventilatoryissue ➤ Medicationadministration ➤ PainManagement • Interactionwithchildrenandfamilies
VII.	10	7	CriticalCarein OlderAdult • Normalpsychobiologicalcharacteristicsofaging ➤ Biologicalissues

			➤ Psychological issues ➤ Concepts and theories of ageing ➤ Stress & coping in older adults ➤ Common Health Problems & Nursing Management; • Physical challenges ➤ Auditory changes ➤ Visual changes ➤ Other sensory changes ➤ Skin changes ➤ Cardiovascular changes ➤ Respiratory changes ➤ Renal changes ➤ Gastrointestinal changes ➤ Musculoskeletal changes ➤ Endocrine changes ➤ Immunological changes • Psychological challenges ➤ Cognitive changes ➤ Abuse of the older person ➤ Alcohol abuse • Challenges in medication use ➤ Drug absorption ➤ Drug distribution ➤ Drug metabolism ➤ Drug excretion • Hospital associated risk factors for older adults • Long term complications of critical care ➤ Care transitions ➤ Palliative care and end of life in critical care
VIII.	10	7	Laryngospasm, Bronchospasm, Noncardiogenic pulmonary edema, Aspiration, Hypoxia, Hypoventilation ➤ Cardiovascular–Effects of anaesthesia on cardiac function, Myocardial dysfunction, Dysrhythmias, postoperative hypertension, post operative hypotension ➤ Thermoregulatory–Hypothermia, shivering, hyperthermia, malignant hyperthermia ➤ Neurology-Delayed emergence, emergence delirium, Nausea and vomiting
IX.	10	7	Other special situations in critical care • Rapid response teams and transport of the critically ill • Disaster management • Ophthalmic emergencies–Eye injuries, glaucoma, retinal detachment

			• ENT emergencies- Foreign bodies, stridor, bleeding, quinsy, acute allergic conditions • Psychiatric emergencies – Suicide, crisis intervention

Course Outcomes (Cos)

CO1	Applies advanced concepts of critical care nursing based on sound knowledge of these concepts Uses invasive and non-invasive technology and interventions to assess, monitor and promote physiologic stability
CO2	Works in collaboration with other healthcare team members Consults with and is consulted by other healthcare professionals
CO3	Provides nursing care related to health protection, disease prevention, anticipatory guidance, counseling, management of critical illness, palliative care and end of life care Uses advanced skills in complex and unstable environments
CO4	Applies ethically sound solutions to complex issues related to individuals, populations and systems of care Practices principles of infection control relevant to critical care
CO5	Practices independently within the legal framework of the country towards the interest of patients, families and communities
CO6	Uses applicable communication, counseling, advocacy and interpersonal skills to initiate, develop and discontinue therapeutic relationships Creates and maintains a safe therapeutic environment using risk management strategies and quality improvement

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	2	3	3	3	2	3	3	3	3		3	3	3	2
CO2		2	3		1				3			3		2	1
CO3		1				1		1				3	1	3	
CO4	3			3		3				2	2			3	3
CO5	3	3		3		2	3	1		2	2		3		2
CO6	2	3	2	2	2	2	2	2	3	2	2	2	3		2

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

Activities:

- Framing philosophy, aims and objectives.
- Lesson Planning.
- Microteaching-2.
- Conduct practice teachings using different teaching strategies -10 (like lecture cum discussion, demonstration- lab method, field trips, seminars, project, role play, panel discussion, clinical method etc)
- Preparation and utilization of instructional Aids using different media.
- Develop course plans, unit plans, rotation plans.
- Continuing education workshops.
- Annotated bibliography.
- Construct, administer and evaluate tools (objective & essay type test, observation checklist, rating scale etc.,
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Methods of Teaching

- Lecture cum discussion
- Demonstration/ Return demonstration
- Seminar /Presentations
- Projectwork
- Workshop

Methods of evaluation

- Tests
- Presentation
- Projectwork
- Written assignments

Internal Assessment**Techniques**

Test- (2 tests)

Assignment

Seminar/presentation

Weightage

50

25

25

Practical – Internal assessment

Learning resource material	25
Practice Teaching	50
Conduct Workshop	25
/Short Term Course	

Practical – external assessment

Practice teaching- 1-	50
Preparation/use of learning resource material-1	25
Construction of tests/rotation plan.	25

List of skills to be practiced in the skill lab (46 hours include demonstration by the faculty and practice by the students)

- **Hematological alterations**
 - Blood transfusion
 - Bone marrow transplantation
 - Care of Catheter site
- **Skin alterations**
 - Burn fluid resuscitation
 - Burn feed calculation
 - Burn dressing
 - Burn bath
 - Wound dressing
- **Multisystem alterations requiring critical care**
 - Triage
 - Trauma team activation
 - Administration of anti snake venom
 - Antidotes

- **Specific infections in critical care**
 - Isolation precautions
 - Disinfection and disposal of equipments
- **Critical care in Obstetrics, children, and Older Adult**
 - partogram
 - equipments—incubators, warmers
- **Critical Care in Perianesthetic period**
 - Assisting with planned intubation
 - Monitoring of patients under anesthesia
 - Administration of nerve blocks
 - Titration of drugs—Ephedrine, Atropine, Naloxone, Avil, Ondansetron
 - Sensory and motor block assessment for patients on epidural analgesia.
 - Technical troubleshooting of syringe/infusion pumps.
- **Other special situations in critical care**
 - Disaster preparedness and protocols
 - Disinfection and disposal of equipments
- **Critical care in Obstetrics, children, and Older Adult**
 - partogram
 - equipments—incubators, warmers
- **Critical Care in Perianesthetic period**
 - Assisting with planned intubation
 - Monitoring of patients under anesthesia
 - Administration of nerve blocks
 - Titration of drugs—Ephedrine, Atropine, Naloxone, Avil, Ondansetron
 - Sensory and motor block assessment for patients on epidural analgesia.
 - Technical troubleshooting of syringe/infusion pumps.
- **Other special situations in critical care**
 - Disaster preparedness and protocols

SCHEME OF PRACTICAL

TOTAL = 1748 HOURS

1 WEEK = 60 HOURS

Iyr.Courses	Introductory classes	Workshop	Theory integrated in clinical practice	Methods of teaching (Topic can be specified)
Theoretical basis for Advanced practice Nursing	13 hrs		33hrs (22wks x 1.5 = 33)	- Seminar / Theory application - Lecture (faculty)
Research Application and Evidence Based Practice in Critical Care	18.5	40 (5 days)	22 (22wks x 1 = 22)	Research study analysis / Exercise / Assignment (lab)
Advanced skills in leadership, Management and Teaching	17.5	8 (1 day)	55 (22wks x 2.5 = 55)	- Clinical conference - Seminar - Exercises / Assignment (lab)
Advanced Pathophysiology			69 (22 x 1.5 = 33 + 1.5, 23 x 1.5 = 34.5)	- Case presentation - Seminar - Clinical conference
Advanced Pharmacology			69 (23 x 3)	- Nursing grounds - Drug study presentation - Standing orders / presentation

1 year – Introductory classes = 1 week, Workshop = 1 week,
 22 weeks – 6.5 hrs/week, 22wks – 9.5 hrs/week (This is very tentative)

Ilyear courses	Theory integrated into clinical prac ticum	Methods of teaching
Foundations	138 23wksx6=138	• Demonstration(lab) • Return demonstration(lab) • Clinical teaching • Case study • Seminar • Clinical conference • Faculty lecture
Critical Care Nursing I	161 46x2=92 46x1.5=69 ----- 161	• Demonstration(lab) • Return Demonstration (lab) • Clinical conference/journal club • Seminar • Case presentation • Drug study (including drug interaction) • Nursing grounds • Faculty lecture
Critical Care Nursing II	161 46x3.5=161	• Demonstration(lab) • Return Demonstration • Nursing grounds • Clinical conference/journal club • Seminar • Faculty lecture

Ilyear 23wks –8hrs/wk 23wks -7 hrs/wk

Instructional Hours: Theory = 644 hrs , Skill lab= 276 hrs

Clinical = 3496 hrs TOTAL=4416 hrs

I year: 368-92-1748 hrs (Theory-skill lab-clinical) [Theory + Lab=20%,

Clinical=80%]

**II year: 276-184-1748hrs (Theory-skill lab-clinical) [Theory+Lab=20%,
Clinical=80%]**

CLINICAL PRACTICE

A. Nursing Residency clinical experience (A minimum of 48 hrs/week is prescribed, however, it is flexible with different shifts and OFF followed by on call duty)

Clinical placements:

I year: 44 wks (excludes 2 weeks of introductory block classes and workshop)

Medical ICU – 12

Surgical ICU – 12

Cardio/Cardio thoracic (CT) ICU – 8

Emergency Department - 6

Other ICUs (Neurology, Burns, Dialysis unit) - 6

II Year: 46 wks

Medical ICU – 12

Surgical ICU – 12

Cardio/Cardio thoracic (CT) ICU – 8

Emergency Department - 8

Other ICUs (Neurology, Burns, Dialysis unit) - 6

PROCEDURES OF NPCC

I INDEPENDENT SKILLS

- 1** Admission
- 2** Transfer
- 3** Transport
- 4** Discharge / LAMA
- 5** Medico-legal compliance
- 6** Family education & counselling
- 7** End of life Care Brain death Organ donation
- 8** After life Care
- 9** Setting up, use & maintenance of Critical care equipment
 - 9.1** Ventilator
 - 9.2** Monitor
 - 9.3** Transducer / pressure bag
 - 9.4** Temperature probes
 - 9.5** SpO₂ probes
 - 9.6** Sequential compressing device
 - 9.7** 12 –lead ECG monitor
 - 9.8** Warmer
 - 9.9** Fluid warmer
 - 9.10** ET Cuff pressure monitor
 - 9.11** Defibrillator

- 9.12 Pacemaker
- 9.13 Syringe pump
- 9.14 Infusion pump
- 9.15 Alpha mattress
- 9.16 CRASH trolley
- 10 Triage
- 11 Care during transfer by air ambulance and surface ambulance
- 12 Physical assessment
 - 12.1 Geriatric
 - 12.2 Neonate
 - 12.3 Child
 - 12.4 Pregnancy
 - 12.5 Infectious disease (AIDS)

INDEPENDENT SKILLS WITH STANDING ORDERS/INSTITUTIONAL PROTOCOL

- 1. BLS
- 2. ACLS
- 3. Laryngeal mask airway
- 4. Defibrillation

I INDEPENDENT SKILLS

- 1 Assessment of respiratory system
- 2 Monitoring of respiratory parameters

- 2.1 Pulse oximetry
- 2.2 ABG
- 2.3 ET Cuff Pressure
- 2.4 Capnography (ETCO₂)
- 3 Care of ET tube
- 4 Tracheostomy care
- 5 Airway application
- 6 Tracheal suctioning - Open
- 7 Tracheal suctioning - Closed
- 8 Care of patient with Chest drainage
- 9 Chest physiotherapy
- 10 Nebulization
- 11 Oxygen administration
 - 11.1 Mask
 - 11.2 Nasal prongs
 - 11.3 CPAP / BiPAP
- 12 Care of patient on Mechanical ventilator

RESPIRATORYCARE

II INDEPENDENT SKILLS WITH STANDING ORDERS/INSTITUTIONAL PROTOCOL

- 1 Non – invasive ventilation
- 2 Connecting to Ventilator

- 3 Weaning from ventilator
- 4 Extubation
- 5 Use of T-tube & Venturi devices
- 6 Postural drainage
- 7 Weaning from tracheostomy
- 8 Chest tube removal
- 9 Endotracheal intubation

III INTER-PROFESSIONAL

- 1 Assisting for Bronchoscopy
- 2 Assisting for Chest tube insertion
- 3 Assisting for ET tube change
- 4 Assisting for tracheostomy

CARDIOVASCULAR CARE

I INDEPENDENT SKILLS

- 1 Assessment of cardiovascular system
- 2 Monitoring of Cardiovascular parameters include cardiac output monitoring
 - 2.1 Invasive BP monitoring
 - 2.2 Non invasive BP monitoring
 - 2.3 ECG
 - 2.4 PiCCO
 - 2.5 Peripheral vascular status

- 3 Fluid administration
 - 3.1 Colloid
 - 3.2 Crystalloid
- 4 Blood & blood product administration
- 5 Inotrope administration
- 6 Application of TED stocking
- 7 Thrombolytic therapy
- 8 Insertion and Care of CVP line
- 9 Care of arterial line
- 10 Care of Patient with Pacemaker
- 11 IABP
- 12 ECMO
- 13 Continuous cardiac monitoring
- 14 High alert drugs
- 15 Peripheral temperature
- 16 Chest auscultation

II INDEPENDENT SKILLS WITH STANDING ORDERS/INSTITUTIONAL PROTOCOL

- 1 Removal of arterial line
- 2 Collection of blood samples from Central line and arterial line
- 3 Use of vacutainer
- 4 Electrolyte replacement

- 5 Ionotrope titration
- 6 Removal of Central line
- 7 Fluid balance planning

III INTER-PROFESSIONAL

- 1** Insertion of arterial line
- 2 Insertion of Pulmonary Artery Catheter

RENALCARE

I INDEPENDENT SKILLS

- 1** Assessment of renal system
- 2 Monitoring of renal parameters
- 3 Care of patient on hemodialysis
- 4 Care of patient on peritoneal dialysis

II INDEPENDENT SKILLS WITH STANDING ORDERS/INSTITUTIONAL PROTOCOL

- 1** Hemodialysis

NEUROLOGICAL CARE

I INDEPENDENT SKILLS

- 1** Assessment of neurological system
- 2 Monitoring of neurological parameters

- 2.1 Intracranial pressure
- 2.2 Cranial nerves
- 2.3 GCS
- 2.4 Pain
- 2.5 Temperature
- 2.6 Peripheral neurological status
- 2.7 Reflexes
- 2.8 Sedation score
- 3 Pain management
- 4 Sensory Stimulation

II INDEPENDENT SKILLS WITH STANDING ORDERS/INSTITUTIONAL PROTOCOL

- 1 Consciousness / coma status monitoring
- 2 Brain death evaluation

GASTROINTESTINAL & NUTRITIONAL CARE

I INDEPENDENT SKILLS

- 1 Assessment of Gastrointestinal system
- 2 Monitoring of gastrointestinal system
 - 2.1 Bowel sounds
 - 2.2 Abdominal pressure
 - 2.3 Residual volume

2.4 Calorie requirement

2.5 Protein requirement

3 Enteral nutrition

3.1 NG feeding

3.2 Gastrostomy / Jejunostomy feeding

II INDEPENDENT SKILLS WITH STANDING ORDERS/INSTITUTIONAL PROTOCOL

1 Parenteral nutrition

ENDOCRINE CARE

I INDEPENDENT SKILLS

1 Assessment of endocrine system

2 Monitoring of endocrine parameters

2.1 GRBS

II INDEPENDENT SKILLS WITH STANDING ORDERS/INSTITUTIONAL PROTOCOL

1 Insulin therapy

ELECTIVE COURSE

(19ECICUWV01) ICU WORK PLACE VIOLENCE

PLACEMENT- I YEAR

Hours of instruction
Theory: 30hours Credit: 5.5
Practical: 10 hours Credit: 10

Course description

This course is designed to help healthcare workers better understand the scope and nature of violence in the workplace. Upon successful completion of the course, healthcare professionals especially in ICU can avoid or minimise the incidence of work place violence.

Objectives

At the end of the course, students will be able to:

- Identify institutional, environmental, and policy risk factors for workplace violence
- Recognize behavioural warning signs of violence in individuals
- Employ communication and teamwork skills to prevent and manage violence
- Identify appropriate resources to support injured healthcare workers
- Take steps to implement a comprehensive workplace violence prevention program

Course Content

ICU WORK PLACE VIOLENCE

Units	Hours		Course Content
	Theory	Practical	
VII.	3		Definition, types, and prevalence
VIII.	6	2	Workplace violence consequences

IX.	6	2	Risk factors for type II and III violence
X.	5	2	Prevention strategies for organizations
XI.	5	2	Prevention strategies for nurses
XII.	5	2	Post event response

Course Outcomes (Cos)

CO1	Identify institutional, environmental, and policy risk factors for workplace violence
CO2	Recognize behavioural warning signs of violence in individuals
CO3	Employ communication and teamwork skills to prevent and manage violence
CO4	Identify appropriate resources to support injured healthcare workers
CO5	Take steps to implement a comprehensive workplace violence prevention program
CO6	Charting and maintaining statistics related to work place violence for view back

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	2	3	3	3	2	3	3	3	3		3	3	3	2
CO2		2	3		1				3			3		2	1
CO3		1				1		1				3	1	3	
CO4	3			3		3				2	2			3	3
CO5	3	3		3		2	3	1		2	2		3		2
CO6	2	3	2	2	2	2	2	2	3	2	2	2	3		2

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

Activities:

- Framing philosophy, aims and objectives.
- Lesson Planning.
- Microteaching-2.
- Conduct practice teachings using different teaching strategies -10 (like lecture cum discussion, demonstration- lab method, field trips, seminars, project, role play, panel discussion, clinical method etc)
- Preparation and utilization of instructional Aids using different media.
- Develop course plans, unit plans, rotation plans.
- Continuing education workshops.
- Annotated bibliography.
- Construct, administer and evaluate tools (objective & essay type test, observation checklist, rating scale etc.,
- Observe and practice application of various non-standardized tests (intelligence, Aptitude, Personality, Sociometry, physical & mental disability tests.)

Methods of Teaching

- Lecture cum discussion
- Demonstration/ Return demonstration
- Seminar /Presentations
- Projectwork
- Workshop

Methods of evaluation

- Tests
- Presentation
- Projectwork
- Written assignments

(19ECDPP02) DISASTER PREPAREDNESS AND PROTOCOL

PLACEMENT- I YEAR

Hours of instruction

Theory: 20hours Credit: 4.5

Practical: 20 hours Credit: 15

Course description

Taking this course will help you prepare a fully functional disaster preparedness plan, to include packing lists, a communication plan, a financial plan, and even a technology plan. If you live in areas where tornados, hurricanes, earthquakes, or other disasters are common, this is the course for you. In addition, this course will cover topics that help you understand what the benefits a safe room can provide for your safety. Even for those not in these areas, this course still provides insight into what to do for man-made disasters such as terrorist attacks, chemical spills, and fires. Don't wait until disaster strikes, strike first and get prepared.

Objectives

At the end of the course, students will be able to:

- Provide an understanding of the social nature of natural hazards and disasters.
- Give students knowledge of the social factors affecting disaster mitigation, preparedness, response, and recovery.
- Reveal unfounded myths about human behaviour in disasters.
- Increase awareness of hazards and disasters around the world and the unequal social consequences stemming from disaster events.
- Provide an awareness of opportunities for adjustments and applications of research findings.
- Create or strengthen an appreciation for the practical value of theory with a strong focus on capacity building and evidence based practice.
- Teach students skills to use information technology to access current disaster-relevant information for assessing, planning, mitigating, responding to and recovery from disaster from local through global levels.
- Highlight social work values and ethics in examining the consequences of disasters as related to race, ethnicity, national origin, class, gender, sexual orientation, physical or mental disability, mental illness and age.

Course Content

Disaster preparedness and protocol

Units	Hours		Course Content
	Theory	Practical	
I.	1		Introduction to Disaster Preparedness
II.	1		Getting Prepared: The Essentials
III.	1		Key First Aid, Health, and Decontamination Information
IV.	1		Seeking Shelter
V.	2	2	Preparing a Safe Room
VI.	1		Alerts and Warnings
VII.	1		Internal and External Communications
VIII.	3	2	Medical and First Aid Needs
IX.	1		Being Prepared Financial During a Disaster
X.	1	2	Mobility and Transportation
XI.	2		Introduction to Disaster Preparedness
XII.	2	2	Search Organization Preparedness
XIII.	1	4	Emergency Preparedness for Schools
XIV.	1	4	Emergency Preparedness for the Office
XV.	1	4	Being Ready for a Technological Disaster

Course Outcomes (Cos)

CO1	Give students knowledge of the social factors affecting disaster mitigation, preparedness, response, and recovery.
CO2	Reveal unfounded myths about human behaviour in disasters.
CO3	Increase awareness of hazards and disasters around the world and the unequal social consequences stemming from disaster events.
CO4	Provide an awareness of opportunities for adjustments and applications of research findings.
CO5	Create or strengthen an appreciation for the practical value of theory with a strong focus on capacity building and evidence based practice.
CO6	Teach students skills to use information technology to access current disaster-relevant information for assessing, planning, mitigating, responding to and recovery from disaster from local through global levels.

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	2	3	3	3	2	3	3	3	3		3	3	3	2
CO2		2	3		1				3			3		2	1
CO3		1				1		1				3	1	3	
CO4	3			3		3				2	2			3	3
CO5	3	3		3		2	3	1		2	2		3		2
CO6	2	3	2	2	2	2	2	2	3	2	2	2	3		2

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

Activities:

- Framing philosophy, aims and objectives.
- Lesson Planning.
- Microteaching-2.
- Conduct practice teachings using different teaching strategies -10 (like lecture cum discussion, demonstration- lab method, field trips, seminars,

project, role play, panel discussion, clinical methodsetc)

- Preparation and utilization of instructional Aids using differentmedia.
- Develop course plans, unit plans, rotationplans.
- Continuing educationworkshops.
- Annotatedbibliography.
- Construct, administer and evaluate tools (objective & essay type test, observation checklist, rating scaleetc.,
- Observe and practice application of various non-standardized tests (intelligence, Aptitude, Personality, Sociometry, physical & mental disabilitytests.)

Methods of Teaching

- Lecture cumdiscussion
- Demonstration/ Returndemonstration
- Seminar /Presentations
- Projectwork
- Workshop

Methods of evaluation

- Tests
- Presentation
- Projectwork
- Writtenassignments

(19ECNA03) NURSING AUDIT

PLACEMENT-II YEAR

Hours of instruction

Theory: 35hours Credit: 6

Practical: 25 hours Credit: 15

Course description

This course is designed to enable students to acquire in-depth understanding of management of hospital services, management of nursing services and nursing educational programmes. This is also designed to enable students to acquire understanding of the professional responsibilities, prospects and contribution to the growth of the Nursing profession. A nursing audit is a process of determining the quality of nursing care by reviewing clinical records made by healthcare professionals. It helps ensure consistent quality patient care and uncovers areas for improvement. Use this nursing audit checklist to confirm compliance with proper nursing documentation and check patient care provided to patients.

Objectives

At the end of the course, students will be able to:

- Understand the principles and purpose of nursing audit
- Understand the elements and process of nursing audit
- Appreciate the management of nursing services in the hospital and community.
- Apply the concepts, theories and techniques of organizational behaviour and human relations.
- Develop skills in planning and organizing in service education
- Understand the management of nursing educational institutions.

Course Content

NURSING AUDIT

Units	Hours		Course Content
	Theory	Practical	
XIII.	10		Introduction • Purpose of nursing audit • Management of nursing services in the hospital • Planning Hospital & patient care units including ward • management Emergency and disaster management • Human resource management Recruiting, selecting, deployment, retaining, promoting,superannuation

			Categories of nursing personnel including, job description of all levels Patients/ population classification system Patients/ population assignment
XIV.	20	01	Nursing audit tool • Methods to develop audit tool • Audit as a tool for quality control • Advantages of nursing audit • Disadvantages of nursing audit • Difference between audit and research
XV.	10	10	Nursing audit methods • Nursing audit methods • Steps for conducting nursing audit • Digital nursing audit tools • Medical record audit check list

Course Outcomes (Cos)

CO1	To develop skills in planning and organizing in service education
CO2	Understand the management of nursing educational institutions
CO3	Understand the principles and purpose of nursing audit
CO4	Learn the elements and process of nursing audit
CO5	Appreciate the management of nursing services in the hospital and community.
CO6	Apply the concepts, theories and techniques of organizational behaviour and human relations.

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	1	3	1		1	1	3	1		1		1	2
CO2						3						1		1	1
CO3	1				1						2		1	3	
CO4		2	1		1		1	1	3	1	1		1		
CO5	1	1	1	3		1	1			1	1	1	1		1
CO6	1	1	1	2		1	1	1		1	1	1	1	1	1

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

Activities:

- Framing philosophy, aims and objectives.
- Lesson Planning.
- Microteaching-2.
- Conduct practice teachings using different teaching strategies -10 (like lecture cum discussion, demonstration- lab method, field trips, seminars, project, role play, panel discussion, clinical methods etc)
- Preparation and utilization of instructional Aids using different media.
- Develop course plans, unit plans, rotation plans.
- Continuing education workshops.
- Annotated bibliography.
- Construct, administer and evaluate tools (objective & essay type test, observation checklist, rating scale etc.,
- Observe and practice application of various non-standardized tests (intelligence, Aptitude, Personality, Sociometry, physical & mental disabilities tests.)

Methods of Teaching

- Lecture cum discussion
- Demonstration/ Return demonstration
- Seminar /Presentations
- Project work
- Workshop

Methods of evaluation

- Tests
- Presentation
- Project work
- Written assignments

ELECTIVE COURSE
(19ECCM04) CARDIAC MONITORING

PLACEMENT-II YEAR

Hours of instruction
Theory: 35hours Credit: 6
Practical: 25 hours Credit: 15

Course description

This course is designed to provide nursing students with the skills required to care competently and safely for critically ill patient. It focuses on having the students expand their knowledge base and master critical care nursing psychomotor skills associated with assessment and provision of comprehensive nursing care for patient with acute life threatening conditions and attitudes through reflection in and on action in clinical settings. It also focuses on the application of immediate rapid and accurate nursing assessment and provision of quality nursing care according to priorities. It enable the students to provide comprehensive quality nursing care for critically ill patient with different body system alterations, with different types of invasive devices and with different types of machines encountered in critical care settings and to understand the critical care .environment in which practice occurs in order to provide care for the critically ill patients in the different critical care settings. Nursing process is used as an approach of providing holistic patient care. Critical thinking, clinical judgment, decision making and team work are emphasized in this course.

Objectives

At the end of the course, students will be able to:

- Demonstrate the ability to assess critically ill patients with the different invasive devices & machines and their families
- Provide comprehensive nursing care for the critically ill patients with the different acute and life threatening conditions and their families.
- Demonstrate the most commonly used Cardiac monitoring nursing procedures
- Demonstrate the routine care for the most commonly inserted invasive devices
- Common needs /problems and nursing diagnosis for critically ill patient & their families.
- General care of critically ill patient & their families.
- The most commonly used nursing diagnosis for critically ill patients
- The most commonly used drugs & infusion - The most commonly used invasive devices
- Critical care nursing procedures
- Nursing case study on the most commonly acute and life threatening conditions encountered in critical care units

Course Content

CARDIAC MONITORING

Units	Hours		Course Content
	Theory	Practical	
I.	5	5	Assessment of critically ill patient & its terminology Nursing care plan • Critical care nursing record & Reports for other units • Evaluation criteria • Respiratory assessment • Artificial airways • Suctioning (Use of ambu bag ,Percussion & vibration ,oxygen therapy & Inhalation therapy • Mechanical ventilation • Pulse oximeter&Capnogram • Arterial puncture & Arterial line • ABG interpretation • Chest tube
II.	20	10	Respiratory assessment • Clinical application of respiratory assessment, • Assessment of noninvasive& invasive respiratory devices and mechanical ventilator, • Exercises on patient's ABG interpretation. • Cardiovascular assessment (clinical revision) • ECG & Cardiac monitor, • ECG tracing analysis, • Central venous catheter & CVP measurement.
III.	10	10	Cardioversion& defibrillation • Pacemaker • Emergency cart & Emergency drugs • Drug dosage calculation • Advanced life support algorithms • Assessment of nervous system and other body systems • Nasogastric tube • Total parenteral nutrition • Gluco check • Urinary catheter • Recording and reporting • Clinical practice on IV infusion pump, syringe pump & enteral nutrition feeding pump

Course Outcomes (Cos)

CO1	Provide comprehensive nursing care for the critically ill patients with the different acute and life threatening conditions and their families.
CO2	Demonstrate the most commonly used Cardiac monitoring nursing procedures
CO3	Demonstrate the routine care for the most commonly inserted invasive devices
CO4	Learn common needs /problems and nursing diagnosis for critically ill patient & their families.
CO5	Demonstrate general care of critically ill patient & their families.
CO6	State the most commonly used nursing diagnosis for critically ill patients

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	1	3	1		1	1	3	1		1		1	2
CO2						3						1		1	1
CO3	1				1						2		1	3	
CO4		2	1		1		1	1	3	1	1		1		
CO5	1	1	1	3		1	1			1	1	1	1		1
CO6	1	1	1	2		1	1	1		1	1	1	1	1	1

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

Activities:

- Framing philosophy, aims and objectives.
- Lesson Planning.
- Microteaching-2.
- Conduct practice teachings using different teaching strategies -10 (like lecture cum discussion, demonstration- lab method, field trips, seminars, project, role play, panel discussion, clinical methods etc)
- Preparation and utilization of instructional Aids using different media.
- Develop course plans, unit plans, rotation plans.
- Continuing education workshops.
- Annotated bibliography.
- Construct, administer and evaluate tools (objective & essay type test,

observation checklist, rating scale etc.,

- Observe and practice application of various non-standardized tests (intelligence, Aptitude, Personality, Sociometry, physical & mental disabilities tests.)

Methods of Teaching

- Lecture cum discussion
- Demonstration/ Return demonstration
- Seminar /Presentations
- Project work
- Workshop

Methods of evaluation

- Tests
- Presentation
- Project work
- Written assignments

SYLLABUS M.SC NURSING

Psychiatric Nursing

(Revised Regulations-2019)



Bharath Institute of Higher Education and Research
(Deemed To Be University)
Chennai

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH
TAMILNADU, CHENNAI



The motto of the BIHER is win the world by innovation. To the stars by hard work. The emblem of the Bharath Institute of Higher Education and Research is a symbolic expression of equality, knowledge, enlightenment, expression of peace and love and all this based as a source of all medicines

The main aim of establishing the institute was to provide high quality education to students from across the world in several relevant fields. The institute was developed to become a premier university for Teaching, Learning, Research, and Innovation. Students here are trained to create a better society with ethics and morals.

Bharath Institute of Higher Education & Research (TamilNadu) earlier known as **Bharath University**, commonly referred to as BIHER, commenced its establishment in the academic year of 1984. Bharath University has been given the status of 'Deemed to be University'. The institute is approved and recognized by the All-India Council for Technical Education (AICTE) and the University Grants Commission (UGC) respectively. It has also been accredited with grade 'A' by the National Assessment and Accreditation Council (NAAC).

PHILOSOPHY:

Bharath University of Higher Education and Research believes that:

Post Graduate programme is essential to prepare nurses to improve the quality of nursing education and practice in India. Post graduate programme in nursing builds upon and extends competence acquired at the graduate levels, emphasizes application of relevant theories into nursing practice, education, administration and development of research skills.

The programme prepares nurses for leadership position in nursing and health fields who can function as nurse specialists, consultants, educators, administrators and researchers in a wide variety of professional settings in meeting the National priorities and the changing needs of the society. This programme provides the basis for the post masteral programme in nursing. Further the programme encourages accountability and commitment to lifelong learning which fosters improvement of quality care.

AIM:

The aim of the postgraduate program in nursing is to prepare graduates to assume responsibilities as nurse specialists, consultants, educators, administrators in a wide variety of professional settings.

OBJECTIVES:

On Completion of the two years M. Sc Nursing programme, the graduate will be able to:

1. Utilize/apply the concepts, theories and principles of nursing science
2. Demonstrate advance competence in practice of nursing
3. Practice as a nurse specialist.
4. Demonstrate leadership qualities and function effectively as nurse educator and manager.
5. Demonstrate skill in conducting nursing research, interpreting and utilizing the findings from health related research.
6. Demonstrate the ability to plan and effect change in nursing practice and in the health care delivery system.
7. Establish collaborative relationship with members of other disciplines
8. Demonstrate interest in continued learning for personal and professional advancement.

VISION

Bharath Institute of Higher Education & Research (BIHER) envisions and constantly strives to provide an excellent academic and research ambience for students and members of the faculties to acquire professional competence along with human dignity, and spearhead the transformation of community through continuous discovery in science and technology.

MISSION

To develop as a Premier University for Teaching, Learning, Research and Innovation on par with leading global universities.

To impart education and training to students for creating a better society with ethics and morals.

To foster an interdisciplinary approach in education, research and innovation by supporting lifelong professional development, enriching knowledge banks through scientific research, promoting best practices and innovation, industry-driven and institute-oriented cooperation, globalization and international initiatives.

To develop as a multi-dimensional institution contributing immensely to the cause of societal advancement through spread of literacy, an ambience that provides the best of international exposures, provide health care, enrich rural development and most importantly impart value-based education.

To establish benchmark standards in professional practice in the fields of innovative and emerging areas in medicine, dentistry, nursing, physiotherapy, allied sciences, engineering, and management.

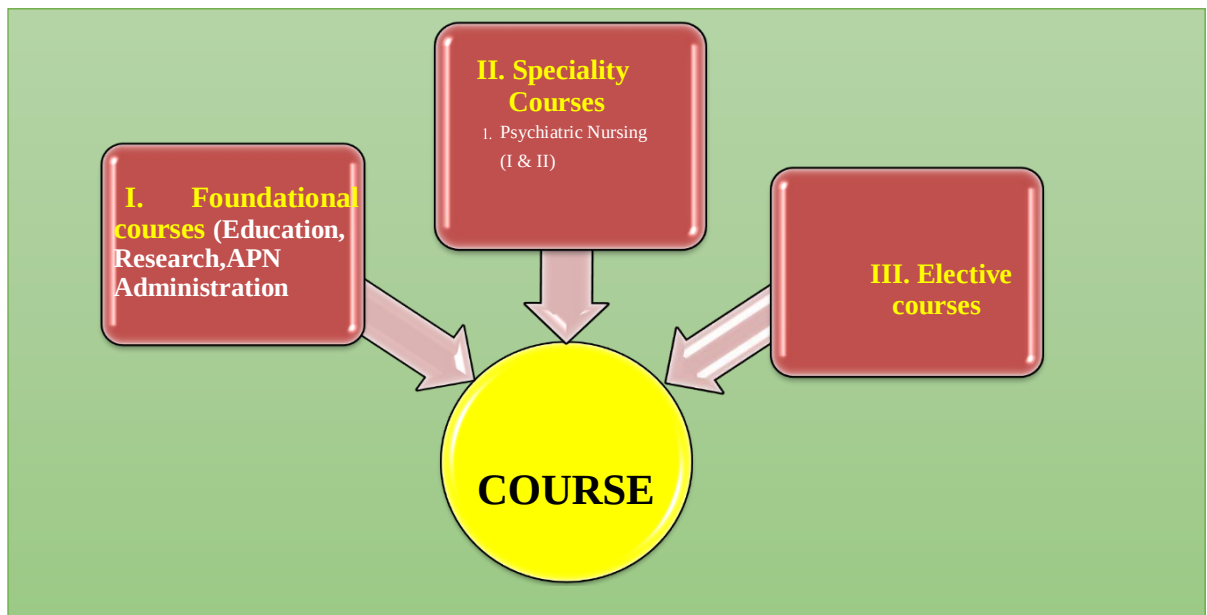
To launch new programmes with innovative curriculum design by provide multi-faceted exposure in various subjects.

To provide flexibility to students - options / add-ons to core subjects, develop Device Agnostic Technology to access online content Funding/incubation entrepreneurial ideas flipped class room – Integrated Courses & Need based learning.

Programme Educational Objects (PEO)

1. To become a competent nurse qualified to practice in a variety of settings in either public/ government or private health care
2. To demonstrate the ability to plan and effect change in nursing practice and in the health care delivery system.
3. To ordinate/manage care by being active participant of inter-professional team and member of a profession demonstrating self-responsibility and accountability for practice as well as to support the profession.
4. To develop leadership and managerial skills to meet the goal/ challenges of a health care organization or an Educational Institute
5. To become exemplary citizens by adhering to code of ethics and professional conduct at all times in fulfilling personal, social and professional obligations so as to respond to national aspirations

MSC NURSING PROGRAM-TWO YEARS
CHOICE BASED CREDIT SYSTEM(CBCS)
COMPETENCY BASED CURRICULUM



PROGRAMME OBJECTIVES

PO1	Provide holistic care recognizing individual patient's preferences, values and needs, that is compassionate, coordinated, age and culturally appropriate safe and effective care.
PO2	Demonstrate accountability for the delivery of standard-based nursing care that is consistent with moral, altruistic, legal, ethical, regulatory and humanistic principles.
PO3	Influence the behaviour of individuals and groups within their environment and facilitate establishment of shared goals
PO4	Demonstrate awareness and responsiveness to the context of healthcare system and ability to manage resources essential to provide optimal quality of care
PO5	Use technology and synthesize information and collaborate to make critical decisions that optimize patient outcomes
PO6	Interact effectively with patients, families and colleagues fostering mutual respect and shared decision making to enhance patient satisfaction and health outcomes
PO7	Function effectively within nursing and interdisciplinary teams, fostering open communication, mutual respect, shared decision making, team learning and development.
PO8	Minimize risk of harm to patients and providers through both system effectiveness and individual performance
PO9	Use data to monitor the outcomes of care processes and utilize improvement methods to design and test changes to continuously improve the quality and safety of healthcare system
PO10	Identify, evaluate and use the best current evidence coupled with clinical expertise and consideration of patient's preferences, experience and values to make practical decisions.
PO11	To become Nurse Researcher and demonstrate skill in conducting research and integrate Evidence based practice in health care.
PO12	To become Nurse Educator to understand the process to understand the process of curriculum development and the methodology of curriculum change, innovation and integration.

PROGRAMME SPECIFIC OUTCOME (PSOS)

PSO1	To become a Nurse Educator in Health Care settings and educational Institutions.
PSO2	To Become Nurse Specialist in the field of Obstetrics & gynaecological Nursing.
PSO3	To develop leadership qualities and managerial skills to meet challenges/goals of an Institution or an health care organization.

(** PSO- 2 or 3)

MAPPING / ALIGNMENT OF PEO VS PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
PEO1		✓										✓	✓		✓
PEO2											✓				
PEO3		✓					✓	✓	✓	✓			✓	✓	
PEO4	✓		✓	✓											
PEO5		✓			✓	✓	✓		✓					✓	

MAPPING BETWEEN COURSE OUTCOMES (COS) AND PROGRAMME OUTCOMES (POS)

YR	Courses/ SOs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
I	THEORY												
	Nursing education												
	Advanced Nursing Practice							✓					
	Nursing Research & statistics												
	Clinical Speciality I (Psychiatric Nursing-I)						✓	✓					
	PRACTICAL				✓								
	Nursing education												
	Advancenursingpractice				✓								
	Nursing Research and Statistics												
	*Clinicalspecialty-I (Psychiatric nursing)												
II	THEORY	✓											
	Nursing Management			✓	✓								
	Clinical Speciality II (Psychiatric Nursing-II)	✓						✓					
	PRACTICAL												
	Nursing Management			✓	✓			✓					
	Nursing Research (Dissertation)	✓		✓				✓					
	Clinical Speciality II (Psychiatric Nursing - II)												

**MAPPING BETWEEN PROGRAMME ELECTIVES (PEs) AND
PROGRAMME OUTCOMES (POs)**

Year	Elective Courses/ SOs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
I	Counselling												
	Cultural Diversity												
	Digital Psychiatry		✓										
	Basic Psychology												
	Motivation												
II	Forensic nursing						✓						
	Stress Management												
	Prevention of suicidal attempts								✓				
	Public speaking								✓		✓		
	Family Therapy				✓								

M.Sc. Nursing Ist Year						
Course Code	Course Category	Course Title	L	T	P	C
THEORY						
19NE01	CC	Nursing education	3	0	3	7.5
19ANP02	CC	Advanced Nursing Practice	3	0	3	7.5
19NRS03	CC	Nursing Research & statistics	3	0	3	7.5
19PY04	SP	Clinical Speciality I (Psychiatric Nursing-I)	3	0	3	7.5
PRACTICAL						
19NE01	CC	Nursing education	0	0	3	7.5
19ANP02	CC	Advancenursingpractice	0	0	3	10
19NRS03	CC	Nursing Research andStatistics	0	0	3	5
19PY04	SP	*Clinicalspecialty–I (Psychiatric Nursing-I)	0	0	3	32.5

M.Sc. Nursing IInd Year						
Course Title			L	T	P	C
THEORY						
19NM05	CC	Nursing Management	3	0	3	7.5
19PY06	SC	Clinical Specility II (Psychiatric Nursing-II)	3	0	3	7.5
PRACTICAL						
19NM05	CC	Nursing Management	0	0	3	7.5
19NRS03	CC	Nursing Research- Dissertation	0	0	3	15
19PY06	SC	*Clinicalspecialty–II (Psychiatric Nursing-II)	0	0	3	47.5

ELECTIVECOURSES

(StandardNational/InternationalModulescanbeused)

Course Code	Elective courses	L	T	P	C
I Year					
19ECC01	Counselling	3	0	2	2
19ECCD02	Cultural Diversity	3	0	2	2
19ECDP03	Digital Psychiatry	3	0	0	2
19ECBP04	Basic Psychology	3	0	1	2
19ECM05	Motivation	3	0	1	2
II Year					
19ECFN06	Forensic nursing	3	0	1	2
19ECSM07	Stress Management	3	0	1	2
19ECPSA08	Prevention of suicidal attempts	3	0	1	2
19ECPS09	Public speaking	3	0	2	2
19ECFT10	Family Therapy	3	0	2	2
	(4 Courses Mandatory) – 2 Credits = 40 Hours				

SUMMARY OF CURRICULUM STRUCTURE AND CREDIT & CONTACT HOUR DISTRIBUTION

S.No	Sub Area	Credit As per Year		No. of Credit
		I	II	
1	Core Courses	45	30	75
2	Speciality Courses	40	55	95
3	Elective Courses	4	4	8
	TOTAL			178

REGULATIONS

ELIGIBILITY CRITERIA/ADMISSION REQUIREMENTS:

- The candidate should be a Registered Nurse and Registered midwife or equivalent with any State Nursing Registration Council.
- The minimum education requirements shall be the passing of: B.Sc. Nursing / B.Sc. Hons. Nursing / Post Basic B.Sc. Nursing with minimum of 55% aggregate marks.
- The candidate should have undergone in B.Sc. Nursing / B.Sc. Hons. Nursing / Post Basic B.Sc. Nursing in an institution which is recognized by Indian Nursing Council.
- Minimum one year of work experience after Basic B.Sc. Nursing.
- Minimum one year of work experience prior or after Post Basic B.Sc. Nursing.
- Candidate shall be medical lyfit.
- 5% relaxation of marks for SC/ST candidates may be given.
- Preference will be given to candidate with clinical experience on the area of specialty choose.

ELIGIBILITY CERTIFICATE

- Candidate from Tamil Nadu as well as other state need to obtain as eligibility certificate from the Bharath University by remitting the prescribed fees along with the application form.
- Candidate from other states must produce the migration certificate at the time of admission.

REGISTRATION

The candidate admitted to the programme shall register with the Bharath University by remitting the prescribed fees along with the application form for registration duly filled in and forwarded to the Bharath University through the head of the Institution within the stipulated date.

SELECTION OF THE CANDIDATE:

- Candidate will be selected on the basis of merit and experience in Specialty areas by college selection committee member.
- After scrutiny of application eligible candidate will be called for an Interview/ entrance test before admission.
- Admission notification will intimate the date of commencement of course.

Programme of study

The M. Sc (Nursing) programme is of 2 years, non-semester study. During the programme, theory, clinical experience in the hospitals & community will be provided.

Duration

Duration of the course is 2 years for M.Sc. (N)

Available	52 weeks
Vacation	4 weeks
Examination	2 weeks
Gazetted holidays	3 weeks
Total weeks available	43 weeks
40 hours per week	1720 hours
Total hours for 2 years	3440 hours

Course of Instruction

I YEAR

Theory (hrs) Credit Practical (hrs)Credit

Nursing education	150	7.5	150	7.5
Advance nursing practice	150	7.5	200	10
Nursing Research and statistics	150	7.5	100	5
*Clinical specialty –I	150	7.5	650	32.5
TOTAL	600	30	1100	55

II YEAR

Theory(hrs) Credit Practical (hrs)Credit

Nursing Management	150	7.5	150	7.5
Nursing Research (Dissertation)			300	15
*Clinical Specialty-II	150	7.5	950	47.5
TOTAL	300	15	1400	70

Educational visit 2 weeks

Scheme of Examination

	Theory			Practical		
	Hours	Internal	External	Hours	Internal	External
1st year						
Nursing education	3	25	75	3	50	50
Advance nursing practice	3	25	75	3		
Nursing Research and Statistics	3	25**	75*	3		
Clinical speciality -I	3	25	75	3	100	100
Total		100	300		150	150
II nd Year						
Nursing Management	3	25	75	3		
Dissertation & Viva				3	100	100
Clinical Speciality-II	3	25	75	3	100	100
Total		50	150		200	200

Nursing research=50 and statistics=25

** Nursing research=15 and statistics=10

1. Minimum pass marks shall be 50 % in each of the Theory and practical papers separately.
2. A candidate must have minimum of 80% attendance (irrespective of the kind of absence) in theory and practical in each subject for appearing for examination.
3. A candidate must have 100% attendance in each of the practical areas before award of degree
4. A candidate has to pass in theory and practical exam separately in each of the paper.
5. If a candidate fails in either the theory or practical paper, he/she has to re-appear for both the papers (Theory and practical).
6. Maximum no. of attempts permitted for each paper is 3 including first attempt

7. The maximum period to complete the course successfully should not exceed 4 (four) years
8. A candidate failing in more than two subjects will not be promoted to the II year.
9. No candidate shall be admitted to the subsequent II-year examination unless the candidate has passed the I year examination.
10. Maximum number of candidates for all practical examination should not exceed 10 per day.
11. Provision of Supplementary examination should be made.
12. All practical examinations must be held in the respective clinical areas.
13. One internal and One external examiner (outside the University) should jointly conduct practical examination for each student
14. An examiner should be M.Sc (N) in concerned subject and have minimum of 3 (three) years post graduate teaching experience.
15. One internal and One external examiner (outside the University) should evaluate dissertation and jointly conduct viva-voce for each student
16. For Dissertation Internal examiner should be the guide and external examiner should be Nursing faculty / nursing expert in the same clinical speciality holding Ph.D./M.Phil/M.Sc. Nursing with a minimum of 3 years' experience in guiding the research projects for Post Graduate students of Nursing.

ATTENDANCE:

A Candidate pursuing M.Sc. Nursing Course shall study in the concerned department of the institution for the entire period as a full-time student. No candidate is permitted to work in any laboratory/college/industry/pharmacy etc while studying post graduate course. No candidate should join any other course of study or appear for any other examination conducted by the university or any other university in India or abroad during the period of registration.

Each year shall be taken as a unit for the purpose of calculating attendance.

1. Every student shall attend symposium, seminars, conferences, journal review meetings and lectures during each year as prescribed by the department/college/university and not absent himself/herself without valid reasons.
2. Candidate who has put in a minimum of 80% attendance in the theory and practical assignments separately shall be permitted to appear for M.Sc. Nursing examination, provided she /he has completed the course and has shown satisfactory progress mentioned in the logbook
3. Any student who fails to complete the course in the manner stated above shall not be permitted to appear for the university examination

INTERNAL ASSESSMENT MARKS

There shall be continuous internal assessment. The marks for internal assessment set apart for the theory and practical in each subject there shall

be two tests and two assignments in each subject, the average of which shall be taken for the internal assessment. The principal shall notify the internal assessment marks in the notice board at the end of each term without fail under the intimation of the university. The principal of the college shall send the internal assessment marks of the students to the university

A student must secure at least 50% of the total marks fixed for internal assessment in a particular subject in order to be eligible to appear in university examination in all subject

Distribution of internal assessment marks for various subjects Firstyear

SI.NO	SUBJECT	INTERNALASSESSMENT MARKS
01	NURSING EDUCATION Theory Practical	25 50
02	ADVANCE NURSING PRACTICE	25
03	NURSING RESEARCH AND STATISTICS	25
04	CLINICAL SPECIALITY-I Theory Practical	25 100
	TOTAL	230

Secondyear

SI.NO	SUBJECT	INTERNAL ASSESSMENT MARKS
01	NURSING MANAGEMENT	25
02	DISSERTATION AND VIVA PRACTICAL	NIL
03	CLINICAL SPECIALITY-I Theory Practical	25 100
	TOTAL	140

MONITORING PROGRESS OF STUDIES:

Every candidate shall maintain a log book and record of her/his participation in the training programme conducted by the department such as journal reviews, seminars etc. The faculty members and peers will assess the presentation using relevant check list. The presentation made by the candidates should be mentioned in the logbook. The logbook shall be scrutinized and certified by the Tamilnadu Nursing Council and presented in the university practical examination

M.Sc. Nursing Log Book:

The university has prescribed a log book which is scrutinized by Tamilnadu Nursing Council.

DISSERTATION:

Each candidate pursuing M.Sc. Nursing course is required to carry out on selected research project under the guidance of a recognized Post Graduate Teacher. The results of such a work shall be submitted in the form of dissertation.

The dissertation is aimed to train a graduate student in research methods and techniques. It includes identification of problems, formulation of hypothesis, search and review of literature, getting acquainted with recent advances, designing of a research study, collection of data, critical analysis, interpretation of results and drawing conclusions. Every candidate shall submit to the Registrar of the university in the prescribed proforma. No change in the dissertation topic or guide shall be made without prior approval of the university.

The dissertation should be written under the following headings:

- I. Introduction
- II. Aims or objectives of study
- III. Review of literature
- IV. Materials and methods
- V. Results
- VI. Discussion
- VII. Conclusion
- VIII. Summary
- IX. References
- X. Tables
- XI. Annexures

The written text of dissertation shall not be less than 10 pages and shall not exceed 100 pages excluding references, tables, questionnaires and other annexure. It should be neatly typed in double line spacing on one side of paper (A4 Size, 8.27" x 11.69") and bound properly. Spiral binding should not be done. A declaration by the candidate for having done the work should also be included and certified by the guide, head of the department and head of the institution. Six copies of dissertation shall be submitted to the registrar through proper channel along with soft copy. Three months before the final examination, it shall be assessed by three examiners, one internal and two externals, appointed by the university. Acceptance of the dissertation is a pre-requisite for a candidate to appear for final examination.

Regulations for examination:

The M.Sc. nursing course shall have two examinations, one at the end of the first year and second at the end of the second year

Eligibility for appearing for the examination:

75% of the attendance for theory and practical. However, 100% of attendance for practical before the award of degree.

M.Sc. Nursing, I Year Examination:

It consists of theory(written) papers and practical examinations.

Theory – (Written) Examination:

The following 4 papers are the theory papers for candidates

1. Nursing education
2. Advance nursing practice
3. Nursing research and statistics
4. Clinical specialty

Criteria to pass:

To be declared as pass in the M.Sc. I year a candidate has to pass in all the prescribed subjects for the I year.

Practical examination

There shall be practical examination in nursing education and nursing specialty chosen by the candidate

01. Common Subject:

A candidate shall secure in each of the common subjects not less than 50% marks prescribed for university examination.

02. Nursing Specialty Subject:

A candidate shall secure not less than 50% marks prescribed for university examination in theory and practical examination exclusive of internal assessment marks.

Carry over

The candidate who has failed in more than two subjects will not be promoted to the II year

M.Sc. Nursing I Year Examination:

The university examination consists of dissertation, written papers (theory), practical examination and viva-voce examination, including dissertation.

Dissertation:

Only candidates whose dissertation has been accepted shall be eligible to appear for M.Sc. II year examination.

Theory – (Written) Examination:

The following 2 papers are the theory papers for candidates

1. Nursing management
2. Clinical speciality

Practical examination

There shall be practical examination in nursing speciality chosen by the candidate

Criteria to pass:

To be declared as pass in the M.Sc. II year a candidate has to pass in all the prescribed subjects for the II year.

01. Common Subject:

A candidate shall secure in each of the common subjects not less than 50% marks prescribed for university examination.

02. Nursing Specialty Subject:

A candidate shall secure not less than 50% marks prescribed for university examination in theory and practical examination exclusive of internal assessment marks.

Classification of results:

- 50% pass in each of the theory and practical separately.
- 50-59% Second division
- 60-74% First division
- 75% and above is distinction

For declaring the rank aggregate of 2 years marks to be considered

If the candidate fails in either practical or theory paper, he/she has to re-appear for both the papers (theory and practical)

Maximum no. of attempts per subject is three (3) inclusive of first attempt. The maximum period to complete the course successfully should not exceed 4 years

Candidate who fails in any subject, shall be permitted to continue the studies into the second year. However the candidate shall not be allowed to appear for the Second year examination till such time that he/she passes all subjects of the first year M.Sc nursing examination

Eligibility for degree:

A candidate shall have passed in all the subjects of M.Sc. I & II Year to be eligible for the award of degree

Practical

- 4 hours of practical examination per student.
- Maximum number of 10 students per day per specialty.
- The examination should be held in clinical area only for clinical specialties
- One internal and external should jointly conduct practical examination
- Examiner – Nursing faculty teaching respective specialty area in M.Sc nursing programme with minimum 3 years' experience after M.Sc nursing.

Guidelines for Dissertation Tentative

Schedule for dissertation

S. No.	Activities	Scheduled Time
1.	Submission of the research proposal	End of 9 th month of 1 st year
2.	Submission of dissertation – Final	End of 9 th month of II nd Year

Note: - Administrative approval and ethical clearance should be obtained

Research Guides

a) Qualification of Guide

Main guide: Nursing faculty / nursing expert in the same clinical speciality holding Ph.D./M.Phil/M.Sc. Nursing with a minimum of 3 years' experience in teaching in the Post Graduate Programme in Nursing.

Co-Guide: A Co-Guide is a nursing faculty/expert in the field of study (may be from outside the college but should be within the city.)

b) Guide – Students Ratio

Maximum of 1:4 (including as co-guide)

c) Research Committee

There should be a research committee in each college comprising of minimum 5 members chaired by the Principal, College of Nursing.

d) Change of guide:

In the event of a register guide leaving the college for any reasons or in the event of death of guide, guide may be changed with prior permission from the university

Evaluation of Dissertation:

The dissertation shall be evaluated by:

1. Professor of Nursing Research common to all the branches of speciality.
2. Professor in clinical speciality.
3. An external examiner with experience in Nursing Research who will be common to all the branches of speciality
4. The number of pages of dissertations should not exceed 60 pages
5. The viva-voce examinations should be a minimum 30 minutes per student.

Resubmission of theses:

- Resubmission of theses with corrections can be done within 6 months
- Resubmission of theses with total re-doing can be done within 2 years.

Conduct and Discipline:

1. Students are expected to follow ethical values in personal and professional life and maintain the professional standards in college and hospital.
2. Students should make every effort to care of the college, hostel and hospital property.
3. Students are expected to abide by the rules and regulations laid by the College, Hospital and Hostel.

Eligibility for Examiners

Internal examiner:

A person to be eligible to be appointed as internal examiner shall be recognized PG teacher of BIHER in the concerned branch of speciality and shall have at least 3 years of PG Teaching experience M.Sc. Nursing students.

External examiner:

A person to be eligible to be appointed as external examiner shall have the qualification prescribed above for a guide and shall have at least 3 years of PG Teaching experience for M.Sc. Nursing students.

Number of examiners:

There shall be two examiners, one internal and one external

(19NE01) NURSING EDUCATION

PLACEMENT-IYEAR

Hours of instruction

Theory:150hours Credit:7.5

Practical :150 hours Credit: 7.5

This course is designed to assist students to develop a broad understanding of Fundamental Principles, concepts, trends and issues related to education and nursing education. Further, it would provide opportunity to students to understand, appreciate and acquire skills in teaching and evaluation, curriculum development, implementation, maintenance of standards and accreditation of various nursing educational programs.

Objectives

At the end of the course, students will be able to:

1. Explain the aims of education, philosophies, trends in education and health: its impact on nursing education.
2. Describe the teaching learning process.
3. Prepare and utilize various instructional media and methods in teaching learning process.
4. Demonstrate competency in teaching, using various instructional strategies.
5. Critically analyze the existing nursing educational programs, their problems, issues and future trends.
6. Describe the process of curriculum development, and the need and methodology of curriculum change, innovation and integration.
7. Plan and conduct continuing nursing education programs.
8. Critically analyze the existing teacher preparation programs in nursing.
9. Demonstrate skill in guidance and counseling.
10. Describe the problems and issues related to administration of nursing curriculum including selection and organization of clinical experience.
11. Explain the development of standards and accreditation process in nursing education programs.
12. Identify research priorities in nursing education.
13. Discuss various models of collaboration in nursing education and services.
14. Explain the concept, principles, steps, tools and techniques of evaluation
15. Construct, administer and evaluate various tools for assessment of, knowledge, skill, and attitude.

Course Content

Units	Hours		Course Content
	Theory	Practical	
I	10		Introduction: ❑ Education: Definition, aims, concepts, philosophies & their education implications, ❑ Impact of Social, economic, political & technological changes on education: • Professional education • Current trends and issues in education • Educational reforms and National Educational policy, various educational commissions-reports • Trends in development of nursing education in India
II	20	30	Teaching – Learning Process ❑ Concepts of teaching and learning: Definition, theories of teaching and learning, relationship between teaching and learning. ❑ Educational aims and objectives; types, domains, levels, elements and writing of educational objectives ❑ Competency based education (CBE) and outcome-based education (OBE) ❑ Instructional design: Planning and designing the lesson, writing lesson plan: meaning, its need and importance, formats. ❑ Instruction strategies – Lecture, discussion, demonstration, simulation, laboratory, seminar, panel, symposium, problem solving, problem-based learning (PBL), workshop, project, role-play (socio-drama), clinical teaching methods, programmed instruction, self-directed learning (SDL), micro teaching, computer assisted instruction (CAI), computer assisted learning (CAL)
III	10	10	Instructional media and methods ❑ Key concepts in the selection and use of media in education ❑ Developing learning resource material using different media ❑ Instructional aids – types, uses, selection, preparation, utilization. ❑ Teacher's role in procuring and managing instructional Aids – Project and non-projected aids, multimedia, video-tele conferencing etc

IV	10		Measurement and evaluation: ❑ Concept and nature of measurement and evaluation, meaning, process, purposes, problems in evaluation and measurement. ❑ Principles of assessment, formative and summative assessment- internal assessment external examination, advantages and disadvantages. ❑ Criterion and norm referenced evaluation,
V	12	10	Standardized and non-standardized tests: ❑ Meaning, characteristics, objectivity, validity, reliability, usability, norms, construction of tests- • Essay, short answer questions and multiple-choice questions. • Rating scales, checklist, OSCE/OSPE (Objective structured clinical/practical examination) • Differential scales, and summated scales, sociometry, anecdotal record, attitude scale, critical incident technique ❑ Question bank-preparation, validation, moderation by panel, utilization ❑ Developing a system for maintaining confidentiality
VI	8	5	Administration, Scoring and Reporting ❑ Administering a test; scoring, grading versus marks ❑ Objective tests, scoring essay test, methods of scoring, Item analysis.
VII	12	6	Standardized Tools ❑ Tests of intelligence aptitude, interest, personality, achievement, socio-economic status scale, tests for special mental and physical abilities and disabilities.
VIII	5	6	Nursing Educational programs ❑ Perspectives of nursing education: Global and national. ❑ Patterns of nursing education and training programmes in India. Non-university and University programs: ANM, GNM, Basic B.Sc. Nursing, Post Certificate B.Sc. Nursing, M.Sc(N) programs, M.Phil and Ph.D) in Nursing, post basic diploma programs, nurse practitioner

			programs.
IX	12	25	Continuing Education in Nursing ❑ Concepts – Definition, importance, need scope, principles of adult learning, assessments of learning needs, priorities, resources. ❑ Program planning, implementation and evaluation of continuing education programs. ❑ Research in continuing education. ❑ Distance education in nursing.
X	10	10	Curriculum Development ❑ Definition, curriculum determinants, process and steps of curriculum development, Curriculum models, Types and framework. ❑ Formulation of philosophy, objectives, selection and organization of learning experiences; master plan, course plan, unit plan. ❑ Evaluation strategies, process of curriculum change, role of students, faculty, administrators, statutory bodies and other stakeholders. ❑ Equivalency of courses: Transcripts, credit system.
XI	8	4	Teacher preparation ❑ Teacher – roles & responsibilities, functions, characteristics, competencies, qualities, ❑ Preparation of professional teacher ❑ Organizing professional aspects of teacher preparation programs ❑ Evaluation: self and peer ❑ Critical analysis of various programs of teacher education in India.
XII	10	5	Guidance and counseling ❑ Concept, principles, need, difference between guidance and counseling, trends and issues. ❑ Guidance and counseling services: diagnostic and remedial. ❑ Coordination and organization of services. ❑ Techniques of counseling: Interview, casework, characteristics of counselor, problems in counseling. ❑ Professional preparation and training for counseling.

XIII	15	10	Administration of Nursing Curriculum ❑ Role of curriculum coordinator – planning, implementation and evaluation. ❑ Evaluation of educational programs in nursing-course and program. ❑ Factors influencing faculty staff relationship and techniques of working together. ❑ Concept of faculty supervisor (dual) position. ❑ Curriculum research in nursing. ❑ Different models of collaboration between education and service
XIV	10		Management of nursing educational institutions ❑ Planning, organizing, staffing, budgeting, recruitment, discipline, public relation, performance appraisal, welfare services, library services, hostel,
XV	5	5	❑ Development and maintenance of standards and accreditation in nursing education programs. ❑ Role of Indian Nursing Council, State Registration Nursing Councils, Boards and University. ❑ Role of Professional associations and unions.

Course Outcomes (Cos)

CO1	Remember is remembering, recognizing and recalling important concepts. It includes factual information with right and wrong answers.
CO2	Understand is the thought processes of interpreting, exemplifying, classifying, summarizing, inferring, comparing, and explaining of interpreting, translating from one medium to another and describing in one's own words.
CO3	Apply the various aspects of curriculum development,
CO4	Analyze the standardized tools
CO5	Develop curriculum for various nursing programmes
CO6	Create the new teaching learning strategies

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	2	1		2			2	2			2	1	2
CO2						1					1	1	2		2
CO3				1			2			1					2
CO4	2		3			1			1		1		1	2	2
CO5	1		1		3		1	2		2		2			
CO6		2	2	2	2		3	2		2		2	2	2	2

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

Activities:

- Framing philosophy, aims and objectives.
- Lesson Planning.
- Microteaching-2.
- Conduct practice teachings using different teaching strategies -10 (like lecture cum discussion, demonstration- lab method, field trips, seminars, project, role play, panel discussion, clinical method etc)
- Preparation and utilization of instructional Aids using different media.
- Develop course plans, unit plans, rotation plans.
- a continuing education workshops.
- Annotated bibliography.
- Critical evaluation of any nursing education program offered by a selected institution.
- Planning and Organizing field visits
- Educational visits.
- Field visits (INC/SNRC) to get familiar with recognition/registration process.
- Construct, administer and evaluate tools (objective & essay type test, observation checklist, rating scale etc.)

- Observe and practice application of various non-standardized tests (intelligence, Aptitude, Personality, Sociometry, physical & mental disabilities tests.)

Methods of Teaching

- Lecture cum discussion
- Demonstration/ Return demonstration
- Seminar / Presentations
- Projectwork
- Field visits
- Workshop

Methods of evaluation

- Tests
- Presentation
- Projectwork
- Written assignments

Internal Assessment

Techniques	Weightage
Test- (2 tests)	50
Assignment	25
Seminar/presentation	25

	100

Practical – Internal assessment	
Learning resource material	25
Practice Teaching	50
Conduct Workshop	25
/Short Term Course	
Practical – external assessment	
Practice teaching- 1-	50
Preparation/use of learning resource material-1	25
Construction of tests/rotation plan.	25

(19ANP02) ADVANCE NURSING PRACTICE

PLACEMENT-IYEAR

Hours of instruction

Theory:150hours

Credit:7.5

Practical:200hours

Credit:10

Course Description

The course is designed to develop an understanding of concepts and constructs of theoretical basis of advance nursing practice and critically analyze different theories of nursing and other disciplines.

Objectives:

At the end of the course the students will be able to:

1. Appreciate and analyze the development of nursing as a profession.
2. Describe ethical, legal, political and economic aspects of health care delivery and nursing practice.
3. Explain bio- psycho- social dynamics of health, life style and health care delivery system.
4. Discuss concepts, principles, theories, models, approaches relevant to nursing and their application.
5. Describe scope of nursing practice.
6. Provide holistic and competent nursing care following nursing process approach.
7. Identify latest trends in nursing and the basis of advance nursing practice.
8. Perform extended and expanded role of nurse.
9. Describe alternative modalities of nursing care.
10. Describe the concept of quality control in nursing.
11. Identify the scope of nursing research.
12. Use computer in patient care delivery system and nursing practice.
13. Appreciate importance of self-development and professional advancement.

Unit	Hours	Content
I	10	Nursing as a Profession ❑ History of development of nursing profession, characteristics, criteria of the profession, perspective of nursing profession-national, global ❑ Code of ethics (INC), code of professional conduct (INC), autonomy and accountability, assertiveness, visibility of nurses, legal considerations, ❑ Role of regulatory bodies ❑ Professional organizations and unions-self-defense, individual and collective bargaining ❑ Educational preparations, continuing education, career opportunities, professional advancement & role and scope of nursing education. ❑ Role of research, leadership and management. ❑ Quality assurance in nursing (INC). ❑ Futuristic nursing.
II	5	Health care delivery ❑ Health care environment, economics, constraints, planning process, policies, political process vis a vis nursing profession. ❑ Health care delivery system- national, state, district and local level. ❑ Major stakeholders in the health care system-Government, non-govt, Industry and other professionals. ❑ Patterns of nursing care delivery in India. ❑ Health care delivery concerns, national health and family welfare programs, inter-sectoral coordination, role of non-governmental agencies. ❑ Information, education and communication (IEC). ❑ Tele-medicine.
III	10	Genetics ❑ Review of cellular division, mutation and law of inheritance, human genome project, The Genomic era. ❑ Basic concepts of Genes, Chromosomes & DNA. ❑ Approaches to common genetic disorders. ❑ Genetic testing – basis of genetic diagnosis, Pre symptomatic and predisposition testing, Prenatal diagnosis & screening, Ethical, legal & psychosocial issues in genetic testing. ❑ Genetic counseling. ❑ Practical application of genetics in nursing.

IV	10	Epidemiology ❑ Scope, epidemiological approach and methods, ❑ Morbidity, mortality, ❑ Concepts of causation of diseases and their screening, ❑ Application of epidemiology in health care delivery, Health surveillance and health informatics ❑ Role of nurse
V	20	Bio-Psycho social pathology ❑ Pathophysiology and Psychodynamics of disease causation ❑ Life processes, homeostatic mechanism, biological and psycho-social dynamics in causation of disease, lifestyle ❑ Common problems: Oxygen insufficiency, fluid and electrolyte imbalance, nutritional problems, hemorrhage and shock, altered body temperature, unconsciousness, sleep pattern and its disturbances, pain, sensory deprivation. ❑ Treatment aspects: pharmacological and pre- post-operative care aspects, ❑ Cardio pulmonary resuscitation. ❑ End of life Care ❑ Infection prevention (including HIV) and standard safety measures, bio-medical waste management. ❑ Role of nurse- Evidence based nursing practice; Best practices ❑ Innovations in nursing
VI	20	Philosophy and Theories of Nursing ❑ Values, Conceptual models, approaches. ❑ Nursing theories: Nightingale's, Henderson's, Roger's, Peplau's, Abdella's, Lewine's, Orem's, Johnson's, King's, Neuman's, Roy's, Watson's, etc and their applications, ❑ Health belief models, communication and management, etc ❑ Concept of Self health. ❑ Evidence based practice model.
VIII	10	Nursing process approach ❑ Health Assessment- illness status of patients/clients (Individuals, family, community), Identification of health-illness problems, health behaviors, signs and symptoms of clients. ❑ Methods of collection, analysis and utilization of data relevant to nursing process. ❑ Formulation of nursing care plans, health goals, implementation, modification and evaluation of care.

IX	30	Psychological aspects and Human relations ❑ Human behavior, Life processes & growth and development, personality development, defense mechanisms, ❑ Communication, interpersonal relationships, individual and group, group dynamics, and organizational behavior, ❑ Basic human needs, Growth and development, (Conception through preschool, School age through adolescence, Young & middle adult, and Older adult) ❑ Sexuality and sexual health. ❑ Stress and adaptation, crisis and its intervention, ❑ Coping with loss, death and grieving, ❑ Principles and techniques of Counseling.
X	10	Nursing practice ❑ Framework, scope and trends. ❑ Alternative modalities of care, alternative systems of health and complementary therapies. ❑ Extended and expanded role of the nurse, in promotive, preventive, curative and restorative health care delivery system in community. ❑ Health immunity and institutions. ❑ Health promotion and primary healthcare. ❑ Independent practice issues, - Independent nurse-midwifery practitioner. ❑ Collaboration issues and models-within and outside nursing. ❑ Models of Prevention, ❑ Family nursing, Home nursing, ❑ Gender sensitive issues and women empowerment. ❑ Disaster nursing. Geriatric considerations in nursing. ❑ Evidence based nursing practice- Best practices ❑ Trans-cultural nursing.
XI	25	Computer applications for patient care delivery system and nursing practice ❑ Use of computers in teaching, learning, research and nursing practice. ❑ Windows, MS Office: Word, Excel, PowerPoint, ❑ Internet, literature research, ❑ Statistical packages, ❑ Hospital management information system: software's.

Course outcomes (Cos)

CO1	Appreciate and analyze the development of nursing as a profession
CO2	Describe ethical, legal, political and economic aspects of health care delivery and nursing practice.
CO3	Explain bio-psycho-social dynamics of health, life style and health care delivery system
CO4	Discuss concepts, principles, theories, models, approaches relevant to nursing and their application
CO5	Describe scope of nursing practice.
CO6	Provide holistic and competent nursing care following nursing process approach

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1		2	2	2	3	3		2	2	2	2		2		2
CO2		2	2	1				1		2			2		2
CO3	1				2	2				2	1		2		2
CO4	2						2			2	1		2	2	2
CO5	2	2	2	1	2	2						2			2
CO6	2	2	2	1	2				2	2	2	2			2

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

Practical

Clinical posting in the following areas:

Specialty area- in-patient unit	- 2 weeks
Community health center/PHC	- 2 weeks
Emergency/ICU	- 2 weeks

Activities

- Prepare Case studies with nursing process approach and theoretical basis
- Presentation of comparative picture of theories
- Family case- work using model of prevention
- Annotated bibliography
- Report of field visits (5)

Methods of Teaching

- Lecture cum discussion
- Seminar
- Panel discussion
- Debate
- Case Presentations
- Exposure to scientific conferences
- Field visits

Methods of evaluation:

- Tests
- Presentation
- Seminar
- Written assignments

Advance nursing Procedures

Definition, Indication and nursing implications; CPR, TPN, Hemodynamic monitoring, Endotracheal intubation, Tracheostoma, mechanical ventilation, Pacemaker, Hemodialysis, Peritoneal dialysis, LP, BT Pleural and abdominal paracentesis OT techniques, Health assessment, Triage, Pulse oximetry.

Internal Assessment

Techniques	Weightage
Test- (2 tests)	50
Assignment	25
Seminar/presentation	25

	100

(19NRS03)- NURSING RESEARCH AND STATISTICS

PLACEMENT-IYEAR

**Theory:150hours
Practical:100hours**

**Credit:7.5
Credit:5**

PART – A- NURSING RESEARCH

**Theory:100hours
Practical:50hours**

**Credit:5
Credit:2.5**

Course Description

The course is designed to assist the students to acquire an understanding of the research methodology and statistical methods as a basis for identifying research problem, planning and implementing a research plan. It will further enable the students to evaluate research studies and utilize research findings to improve quality of nursing practice, education and management

General Objectives:

At the end of the course, the students will be able to:

1. Define basic research terms and concepts.
2. Review literature utilizing various sources
3. Describe research methodology
4. Develop a research proposal.
5. Conduct a research study.
6. Communicate research findings
7. Utilize research findings
8. Critically evaluate nursing research studies.
9. Write scientific paper for publication.

Content Outline

Unit	Hours		Course Content
	Theory	Practical	
I	10		Introduction: ❑ Methods of acquiring knowledge – problem solving and scientific method. ❑ Research – Definition, characteristics, purposes, kinds of research ❑ Historical Evolution of research in nursing ❑ Basic research terms ❑ Scope of nursing research: areas, problems in nursing, health and social research ❑ Concept of evidence-based practice ❑ Ethics in research ❑ Overview of Research process
II	5	5	Review of Literature ❑ Importance, purposes, sources, criteria for selection of resources and steps in reviewing literature.
III	12		Research Approaches and designs ❑ Type: Quantitative and Qualitative ❑ Historical, survey and experimental – Characteristics, types advantages and disadvantages ❑ Qualitative: Phenomenology, grounded theory, ethnography
IV	10	5	Research problem: ❑ Identification of research problem ❑ Formulation of problem statement and research objectives ❑ Definition of terms ❑ Assumptions and delimitations ❑ Identification of variables ❑ Hypothesis – definition, formulation and types.
V	5	5	Developing theoretical/conceptual framework. ❑ Theories: Nature, characteristics, Purpose and uses ❑ Using, testing and developing conceptual framework, models and theories.

VI	6		Sampling ❑ Population and sample ❑ Factors influencing sampling ❑ Sampling techniques ❑ Sample size ❑ Probability and sampling error ❑ Problems of sampling
VII	20	10	Tools and methods of Data collection: ❑ Concepts of data collection ❑ Data sources, methods/techniques quantitative and qualitative. ❑ Tools for data collection – types, characteristics and their development ❑ Validity and reliability of tools ❑ Procedure for data collection
VIII	5		Implementing research plan ❑ Pilot Study, review research plan (design)., planning for data collection, administration of tool/interventions, collection of data
IX	10	10	Analysis and interpretation of data ❑ Plan for data analysis: quantitative and qualitative ❑ Preparing data for computer analysis and presentation. ❑ Statistical analysis ❑ Interpretation of data ❑ Conclusion and generalizations ❑ Summary and discussion
X	10		Reporting and utilizing research findings: ❑ Communication of research results; oral and written ❑ Writing research report purposes, methods and style- Vancouver, American Psychological Association (APA), Campbell etc ❑ Writing scientific articles for publication: purposes & style
XI	3	8	Critical analysis of research reports and articles
XII	4	7	Developing and presenting a research proposal

Course Outcomes(Cos)

CO1	Remember the research process and significance of statistics
CO2	Understand the research problem and objectives and sampling methods
CO3	Apply or implement the nursing interventions to collect the data
CO4	Analyse and interpret the data using descriptive and inferential statistics
CO5	Develop and evaluate research proposal and prepare the data tabulation.
CO6	Create and conduct a group/individual research project and communicate the research findings.

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	2	2	1		2			2	2	2		2	1	2
CO2		2	2			1					2	1	2		2
CO3		3		1			2			1	2		2		2
CO4	2					1			1		1		2	2	2
CO5	1	2	2	2	2		2	2		2		2			
CO6		2	2	2	2		2	2		2		2	2	2	2

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

Activities:

- Annotated Bibliography of research reports and articles.
- Review of literature of selected topic and reporting
- Formulation of problem statement, objective and hypothesis
- Developing theoretical/conceptual framework.
- Preparation of a sample research tool

- Analysis and interpretation of given data
- Developing and presenting research proposal
- Journal club presentation
- Critical evaluation of selected research studies
- Writing a scientific paper

Method of Teaching

- Lecture-cum-discussion
- Seminar/Presentations
- Project
- Class room exercises
- Journal club

Methods of Evaluation

- Quiz, Tests (Term)
- Assignments/Term paper
- Presentations
- Project work

Internal Assessment

Techniques	Weightage (15 marks)
Term Test (2 tests)	40%
Assignment	20%
Presentation	20%
Project work	20%
Total	100%

PART – B- STATISTICS

Theory :50 hours Credit:2.5

Practical :50 hours Credit:2.5

Course Description

At the end of the course, the students will be able to develop an understanding of the statistical methods and apply them in conducting research studies in nursing.

General Objectives

At the end of the course the students will be able to:

1. Explain the basic concepts related to statistics
2. Describe the scope of statistics in health and nursing
3. Organize, tabulate and present data meaningfully.
4. Use descriptive and inferential statistics to predict results.
5. Draw conclusions of the study and predict statistical significance of the results.
6. Describe vital health statistics and their use in health-related research.
7. Use statistical packages for data analysis

Unit	Hours		Course Content
	Theory	Practical	
I	7	4	Introduction: □ Concepts, types, significance and scope of statistics, meaning of data, □ sample, parameter □ type and levels of data and their measurement □ Organization and presentation of data – Tabulation of data; □ Frequency distribution □ Graphical and tabular presentations.
II	4	4	Measures of central tendency: □ Mean, Median, Mode
III	4	5	Measures of variability; □ Range, Percentiles, average deviation, quartile

			deviation, standard deviation
IV	3	2	Normal Distribution: ☐ Probability, characteristics and application of normal probability curve; sampling error.
V	6	8	Measures of relationship: ☐ Correlation – need and meaning ☐ Rank order correlation; ☐ Scatter diagram method ☐ Product moment correlation ☐ Simple linear regression analysis and prediction.
VI	5	2	Designs and meaning: ☐ Experimental designs ☐ Comparison in pairs, randomized block design, Latin squares.
VII	8	10	Significance of Statistic and Significance of difference between two Statistics (Testing hypothesis) ☐ Non parametric test – Chi-square test, Sign, median test, Mann Whitney test. ☐ Parametric test – ‘t’ test, ANOVA, MANOVA, ANCOVA
VIII	5	5	Use of statistical methods in psychology and education: ☐ Scaling – Z Score, Z Scaling ☐ Standard Score and T Score ☐ Reliability of test Scores: test-retest method, parallel forms, split half method.
IX	4	2	Application of statistics in health: ☐ Ratios, Rates, Trends ☐ Vital health statistics – Birth and death rates. ☐ Measures related to fertility, morbidity and mortality
X	4	8	Use of Computers for data analysis ☐ Use of statistical package.

Activities

- Exercises on organization and tabulation of data,
- Graphical and tabular presentation of data
- Calculation of descriptive and inferential statistics (chi square, t-test, correlation)
- Practice in using statistical package
- Computing vital health statistics

Methods of Teaching:

- Lecture-cum-discussion
- Demonstration – on data organization, tabulation, calculation of statistics, use of statistical package, Classroom exercises, organization and tabulation of data,
- Computing Descriptive and inferential statistics; vital and health statistics and use of computer for data entry and analysis using statistical package.

Methods of Evaluation

- Test, Classroom statistical exercises.

Internal Assessment

Techniques

Weightage 10 marks

Test – (2 tests)

100%

(19PY04) - CLINICAL SPECIALITY-I PSYCHIATRIC NURSING

PLACEMENT-IYEAR

Theory:150hours

Credit:7.5

Practical:650hours

Credit:32.5

Course Description

Course Description

This course is designed to assist students in developing expertise and in-depth understanding in the field of Psychiatric Nursing. It will help students to appreciate the client as a holistic individual and develop skill to function psychiatric nurse specialist .It will furtherenable the student to function as educator, manager, and researcher in the field of Psychiatricnursing

Objectives

At the end of the course the students will be able to:

1. Appreciate the trends and issues in the field of psychiatry and psychiatricnursing.
2. Explain the dynamics of personality development and human behaviour.
3. Describe the concepts of psychobiology in mental disorders and its implications for psychiatricnursing
4. Demonstrate therapeutic communications skills in allinteractions
5. Demonstrate the role of psychiatric nurse practitioner in various therapeuticmodalities
6. Establish and maintain therapeutic relationship with individual and groups
7. Uses assertive techniques in personal and professionalactions
8. Promotes self-esteem of clients, others andself
9. Apply the nursing process approach in caring for patients with mental disorders
10. Describe the psychopharmacological agents, their effects and nurses role
11. Recognize the role of psychiatric nurse practitioner and as a member of the psychiatric and mental healthteam
12. Describe various types of alternative system of medicines used in psychiatricsettings
13. Incorporate evidence based nursing practice and identify the areas of research in the field of psychiatricnursing

Course Content

Units	Hours	Content
I	15	Introduction □ Mental Health and Mental Illness □ Historical perspectives □ Trends, issues and magnitude □ Contemporary practices □ Mental health laws/Acts □ National mental health program -National mental health authority, state mental health authority □ Human rights of mentally ill □ Mental Health/ Mental Illness Continuum □ Classification of mental illnesses-ICD, DSM □ Standards of Psychiatric nursing □ Challenges and Scope of psychiatric nursing □ Multi-disciplinary team and role of nurse Role of psychiatric nurse- extended and expanded
II	10	Concepts of Psychobiology □ The Nervous System: • An Anatomical Review • The Brain and limbic system • Nerve Tissue • Autonomic Nervous system • Neurotransmitters □ Neuroendocrinology • Pituitary, Thyroid Gland • Circadian Rhythms □ Genetics □ Neuro psychiatric disorders □ Psychoimmunology • Normal Immune response • Implications for psychiatric illness □ Implications for Nursing
III	10	Theories of Personality Development and relevance to nursing practice □ Psychoanalytic Theory-Freud's □ Interpersonal Theory-Sullivan's □ Theory of Psychosocial Development-Erikson's □ Theory of object relations □ Cognitive Development Theory □ Theory of Moral Development □ A Nursing Model-Hildegard E. Peplau
IV	5	Stress and its management □ An introduction to the concepts of stress □ Psychological Adaptation to stress □ Stress as a Biological Response. □ Stress as an Environmental Event.

Units	Hours	Content
		□ Stress as Transaction between the Individual and the Environment. □ Stress management.
V	10	Therapeutic communication and interpersonal relationship □ Review communication process, factors affecting communication □ Communication with individuals and in groups □ Techniques of therapeutic communication-touch therapy □ Barrier of communication with specific reference to psychopathology □ Therapeutic attitudes □ Dynamics of a therapeutic Nurse-client relationship; Therapeutic use of self Gaining self-awareness □ Therapeutic nurse-patient relationship its phases ; Conditions essential to development of a therapeutic relationship □ Therapeutic impasse and its management
VI	10	Assertive Training □ Assertive Communication □ Basic Human Rights □ Response Patterns • (Nonassertive Behavior • Assertive Behavior • Aggressive Behavior • Passive-Aggressive Behavior) □ Behavioral Components of Assertive Behavior □ Techniques that Promote Assertive Behavior □ Thought-Stopping Techniques Method Role of The Nurse
VII	10	Promoting Self-Esteem □ Components of Self-Concept □ The Development of Self-Esteem □ The Manifestations of Low-Self-Esteem □ Boundaries Role of The Nurse
	5	Women and Mental Health - Normal reaction to conception, pregnancy and puerperium - Problems related to conception, pregnancy and puerperium and its management. • Counselling – Premarital, marital and genetic

Units	Hours	Content
VIII	10	The nursing process in psychiatric/mental health nursing □ Mental health assessment- History taking, mental status examination □ Physical and neurological examination □ Psychometric assessment □ Investigations, Diagnosis and Differential diagnosis □ Interpretation of investigations □ Nurse's role □ Nursing case management □ Critical pathways of care □ Documentation □ Problem-oriented recording □ Focus charting □ The PIE method
IX	35	Psycho social and physical therapies □ Individual therapy □ Behavioural Therapy- Relaxation therapy, cognitive therapy, positive-negative reinforcement, bio-feedback, guided imagery, ab-reactive therapy □ Group Therapy □ Family Therapy □ Milieu Therapy □ The Therapeutic Community □ Occupational therapy □ Recreational therapy □ Play therapy □ Music therapy □ Light therapy □ Color therapy □ Aromatherapy
XI	5	Electroconvulsive Therapy □ Historical Perspectives □ Indications □ Contraindications □ Mechanisms of Action □ Side Effects □ Risks Associated with Electroconvulsive Therapy □ The Role of The Nurse in Electroconvulsive Therapy
X	10	Psychopharmacology □ Historical Perspectives □ Role of a Nurse in Psychopharmacological Therapy • Antianxiety Agents • Antidepressants Agents • Mood stabilizers • Antipsychotics • Sedative-Hypnotics • Central Nervous System Stimulants □ Future developments

Units	Hours	Content
XII	15	Alternative systems of medicine in mental health □ Types of Therapies • Herbal Medicine • Unani • Siddha • Homeopathic • Acupressure and Acupuncture • Diet and Nutrition • Chiropractic Medicine • Therapeutic Touch and Massage • Yoga • Pet Therapy

Course Outcomes (Cos)- Clinical Speciality-I (Psychiatric Nursing)

CO1	Remember the basic concepts of Psychiatric Nursing.
CO2	Understand of Psychological changes during stages of life
CO3	Apply recent advancements in management of Abnormal Mental Health behaviour
CO4	Analyze the deviations from normal Mental Health and take judicious judgement to handle the Crisis conditions
CO5	Evaluate the areas of research in Psychiatric Nursing and integrate best evidence in Nursing practice.
CO6	Formulate/ Create the new standards/protocol for Nursing Management for Emergencies.

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2				1	1		1	1	1	1	1		1	1
CO2						2						1		1	1
CO3	1	1	1			1		1	3	1	1	1		2	1
CO4	1	1	2			1	1	1	3	1	1	1			1
CO5										1					1
CO6	1	1	1		1	1	1	1		1	1	1	1	1	1

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

Practical

Total = 660 Hours1 week = 30 Hours

S.No.	Area of Posting	No. of Week	Total Hours
1	Acute Psychiatric Ward	4	120 Hours
2	Chronic Psychiatric ward	4	120 Hours
3	Psychiatric Emergency Unit	2	60 Hours
4	O.P.D	2	60 Hours
5	Family Psychiatric Unit	2	60 Hours
6	Community Mental Health Unit	4	120 Hours
7	Rehabilitation/OccupationalTherapy Unit/Half way home/ Day care centre	4	120 Hours
	Total	22 Weeks	660 Hours

Student Activities

- Historytaking
- Mental healthassessment
- Psychometricassessment
- Personalityassessment
- Processrecording
- Therapies- GroupTherapy
- FamilyTherapy
- Psychotherapy
- MilieuTherapy
- The TherapeuticCommunity
- Occupationaltherapy
- Recreationaltherapy

- Playtherapy
- musictherapy
- Pettherapy
- Counselling
- AssistedECT
- AssistedEEG
- Casestudies
- Casepresentation
- Projectwork
- Socio and psychodrama
- Fieldvisits

Elective Course (19ECC01)- Counselling

Introduction:

The programme aims to provide a good, basic grounding in the psychology of lifespan development and major psychological theories of personality and their application to counselling. The course includes basic counselling skills and group facilitation of personal development. The programme provides an opportunity for students to assess their ability to perform in a third level education setting.

General Objective:

The general objective of this course is to understand the nature and scope of guidance and counselling, enlist the skills necessary for fundamental skills and to describe the ethics in counselling

Course Outcomes (Cos)

CO1	Remember the techniques to manage teams at each stage of Counselling
CO2	Understand techniques understand nature and scope of guidance and counseling
CO3	Apply a range techniques understand nature and scope of guidance and counseling
CO4	Analyse strategies & techniques to ensure effective & productive Counselling
CO5	Develop fundamental counseling skillsand develop an ethical approach to counselling
CO6	Create nursing care plan, conduct mental health assessment and apply nursing skills

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	1	1	2	2	2	1	1	2	3	3	1	2	1
CO2	1	1	1	1	2	1	1	1	1	1	3	2	1	1	1
CO3	1			1	1						3	1	1	1	1
CO4	1			1	2	1	1	1	2	2	3				1
CO5	1	1	1				1			3	3				1
CO6	1	1	1				1			2	3				1

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

S.No	Learning objective	Counselling	Hrs
1	Explain the nature and scope of guidance and counselling	Nature And Scope Of Guidance And Counseling • Concept And Definition Of Guidance And Counselling • Guidance And Life Goals 1.3 The Counselling Vocation • The Phases Of The Counselling Process (Assessment, Intervention, And Termination) • Characteristics Of An Effective Counsellor • Personal Challenges As A Counsellor	10(T)
2	Enlist the skills necessary for fundamental skills	Fundamental Counselling Skills. • The Client-Counsellor Relationship • The Counsellor As A Rolemodel • The Counsellor's Needs • Counsellor Objectivity/Subjectivity • Emotional Involvement • Counselor Limits In Practice	10
3	Describe the Ethics In Counselling	Ethics In Counselling • Need For Ethical • Standards Ethical Codes And Guidelines • Rights Of Clients • Dimensions • Confidentiality	10

Practicals

Total = 20Hours

- Basic Counselling Skills
- Observation Skills Questioning
- Communication Skills (Listening, Feedback, Non-Verbal)
- Making Notes and Reflections
- The Counselling
- Interview
- History Taking Interviewing (Characteristics, Types, Techniques)

- Developing Case
- Histories Collecting,
- Documenting Information
- Working with Other Profession

(19ECCD02) Cultural Diversity

Introduction:

This course is designed for developing students gain a better understanding and comprehension of Indian culture, diversity and society and instil in the students a healthy respect for the rich diversity in Indian society and culture help them understand the problems of rural society

General Objectives:

As a result of taking this class, students are expected to be able to:

- Engage with and think critically about key methodological issues in an area of the social sciences often permeated by political motivations of all sorts.
- Develop capacities for critical thinking on two levels
- Recruiting and Managing On The Basis Of Competence And Performance Regardless Of Age, Ethnicity, Gender Or Cultural Background
- Providing Equal Opportunities Based On Merit
- Fostering A Culture That Empowers People to Act In Accordance With This Policy

Course Outcomes (Cos)

CO1	Remember the key methodological issues in an area of the social sciences often permeated by political motivations of all sorts.
CO2	Understand the problems of capacities for critical thinking on two levels
CO3	Apply theories to Identify the problems of adolescents
CO4	Analyse problems of cultural differences
CO5	Develop capacities for critical thinking on two levels
CO6	Create process on Managing On The Basis Of Competence And Performance Regardless Of Age, Ethnicity, Gender Or Cultural Background

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	1	1	2	2	2	1	1	2	3	3	1	2	1
CO2	1	1	1	1	2	1	1	1	1	1	3	2	1	1	1
CO3	1				1	1			1	1	3	1	1	1	1
CO4	1				2	1			2	2	3	1			
CO5	1				1	1			1	3	3	1			
CO6	1				1	1			1	2	3	1	1	1	1

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

S.No	Learning objective	Cultural Diversity	Hrs
1	Describe the diversity of indian society	Understanding The Diversity Of Indian Society skills • Geographical Diversity • Religious Diversity. • Cultural Diversity. • Unity In Diversity.	9(T)
2	Explain about Family, Caste, Village And Women In India	Family, Caste, Village And Women In India • Family As A Basic Institution Of Indian Society Indian Family In Transition. • Social Stratification And Disparities; The Caste System And Its Evils; The Predicament Of The Weaker Sections • Scheduled Castes And Tribes; Backward Classes And Religious Minorities. • Rural Society And Its Problems; Rural-Urban Migration.	6
3	Describe about gender discrimination	Gender Discrimination; • Violence Against Women • Measures To Improve The Status Of Women. • Women Empowerment • Laws To Safeguard Women	8
4	Enumerate the contemporary Challenges Before Indian Society	Contemporary Challenges Before Indian Society • Communalism And Religious Fundamentalism. • Regionalism And Ethnocentrism. • Globalization And Mono-Culturalism; • Mcdonaldization. • Child Labour; Migrant Labour; Bonded Labour; • Contract Labour. • Mass Media And Its Impact On Society	9

(19ECDPS03)- Digital psychiatry

Introduction :

This course is designed an understanding of modern approach to digital psychiatry and identification, prevention and nursing management of digital addiction.

General Objectives:

- Describes the trends in mental health
- Describe the epidemiology of mental health problems
- Describe positive mental health
- Describes the cyber psychology
- Describe the trendas in digital psychiatry
- Describe the psychology of artifical intelligence

Course Outcomes (Cos)

CO1	Remember the Concepts Of Psychology
CO2	Describes the trends in mental health
CO3	Describe positive mental health
CO4	Describes the cyber psychology
CO5	Describe the trendas in digital psychiatry
CO6	Describe the psychology of artifical intelligence

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	1	1	2	2	2	1	1	2	3	3	1	2	1
CO2	1	1	1	1	2	1	1	1	1	1	3	2	1	1	1
CO3	1			1					1	1	3				
CO4	1			1	2	1	1		2	2	3	1	1	1	1
CO5	1	1	1	1	1	1	1		1	3	3	1	1	1	1
CO6	1	1	1	1				1	1	2	3	1	1	1	1

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

SNo	Learners objective	Digital psychiatry	Hrs
1	Explain the Understanding of the modern approach to mental health	Understanding of the modern approach to mental health • Prevalence and incidence of mental health problems identification, • positive mental health • stress and recovery • Technohumanism- using gadgets	8(T)
2	Describe about the psychodynamics of maladaptive behaviour	psycho dynamics of maladaptive behaviour • Group dynamics of the cyber space • concept online • Identity and self- concept online- An emerging field in psychology. Internet, technology and addiction.	8
3	Describe about the Cyber psychology	Cyber psychology • personality strengths • identify own strengths. • relaxation and mindfulness strategies, • importance of physical health and lifestyle problems • importance of physical health and lifestyle problems	7

4	Compare the self esteem and social media	Self-esteem and Social Media • Technology- mediated communication, • Cyberspace as an extension of the human psyche • trends in digital psychiatry	3
5	Explain about the role of nurse in digital psychiatry	Role of nurse in digital psychiatry • Anxiety and depression in the digital age . • Online Disinhibition Effect. • Cyberbullying, violence and trolling. • Artificial intelligence	4

(19ECBP04)- Basic Psychology

Introduction :

This course is designed for developing an understanding the nature of basic psychology and promotion of life skills in changing personal behavior and social attitudes of youth

General Objectives:

As a result of taking this class, students are expected to be able to:

- Describe The Concepts Of Psychology
- Engage with and think critically about key methodological issues in an area of the social sciences often permeated by political motivations of all sorts.
- Develop concepts of memory
- Recruiting and Managing On The Basis Of Competence And Performance Regardless Of Age, Ethnicity, Gender Or Cultural Background
- Fostering A Culture That Empowers People to Act In Accordance intelligence, memory and motivation

Course Outcomes (Cos)

CO1	Remember the Concepts Of Psychology
CO2	Understand techniques to manage key methodological issues in an area of the social sciences often permeated by motivations of all sorts.
CO3	Apply a range of great team building activities
CO4	Analyse strategies & techniques to Culture That Empowers People to Act In Accordance intelligence, memory and motivation
CO5	Develop great team Culture That Empowers People to Act In Accordance intelligence, memory and motivation
CO6	Create nursing care plan, conduct mental health assessment and apply nursing skills

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	1	1	2	2	2	1	1	2	3	3	1	2	1
CO2	1			1	2				1	1	3	2			
CO3	1	1	1	1	1	1					3	1	1	1	1
CO4	1	1	1	1	2	1	1	1	2	2	3	1	1	1	1
CO5	1	1	1	1					1	3	3	1			1
CO6	1	1	1	1				1	1	2	3	1	1	1	1

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

S.NO	Learning objectives	Basic psychology	Hrs
1	Explain the concepts of psychology	Concepts Of Psychology • history of Psychology, Psychology – Behavioral, • Psychodynamic Approach, • Cognitive Approach, Behaviora • Neuroscience, • Evolutionary Psychology, • Sociocultural Approach,	6(T)
2	Describe the memory	Memory • Stages of Sensory Memory, Short-term Memory, Long-term Memory, • Kinds of memory- Procedural and Declarative memory. • Forgetting, • Improving Memory.	6
3	Describe motivation	Motivation • Definition, • Theories of Motivation: • Instinct approach, • Drive- reduction approaches, • Arousal approaches, • Incentive approaches, • Humanistic Approaches, Selfdetermination theory	6
4	Describe the theories of emotion	Emotion – • Introduction, • Theories of emotion: James-Lange theory, Cannon-Bard theory, Schachter's Cognitive theory, • Contemporary model of emotion, • Facial feedback	6

		• hypothesis, • Expressing emotion.	
5	Explain the concepts of intelligence	Intelligence – • Defining intelligence- • Theories of intelligence – • Reliability and validity, Testing	6

(19ECM05)- Motivation

Introduction:

This course will introduce the processes and principles in understanding motivation and emotion. This reviews research on the psychological and physiological aspects of motivation and emotion in human and animal behavior. There is a particular focus on social-cognitive processes and how situational factors trigger various emotions and corresponding motives that can then drive behavior. This course will introduce to the principles of intrinsic motivation and their relationship to your everyday behaviors

GENERAL OBJECTIVES:

- Compare the application of different theoretical perspectives (e.g., biological, sociocultural, cognitive) within the field of motivation and emotion.
- Critically analyze research that has been conducted in the field of psychology
- discuss the impact on various types of motivational processes
- Apply motivation theory to everyday settings (e.g., business, social interactions, education)
- Apply principles of intrinsic motivation to a game play experience

Course Outcomes (Cos)

CO1	Compare the application of different theoretical perspectives (e.g., biological, sociocultural, cognitive) within the field of motivation and emotion.
CO2	Describes Critically analyze research that has been conducted in the field of psychology
CO3	Describe the impact on various types of motivational processes
CO4	Describes the impact on various types of motivational processes
CO5	Apply motivation theory to everyday settings
CO6	Apply stress reduction techniques through an understanding of the physiological processes of stress and how it affects behavior

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	1	1	2	2	2	1	1	2	3	3	1	2	1
CO2	1			1	2	1	1	1	1	1	3	2			1
CO3	1			1	1	1					3	1			1
CO4	1	1	1	1	2	1	1	1	2	2	3	1	1	1	1
CO5	1			1					1	3	3	1			1
CO6	1	1	1	1					1	2	3	1			1

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

SNo	Learners objective	Motivation	Hrs
1	Explain the Understanding of the modem approach to mental health	Understanding of the modem approach to mental health • Prevalence and incidence of mental health problems identification, • positive mental health • stress and recovery • Technohumanism- using gadgets	6(T)
2	Enlist the four forms of motivation	four forms of motivation • extrinsic (external source, action) • identified (external source, non-action) • ntrinsic (internal source, action) • introjected (internal source, non-action)	6
3	Enumerate the patterns of emotions	emotion • complex reaction pattern • experiential • behavioral and • physiological elements	6
4	Describe the elements of motivation	elements in motivation • intensity • direction • persistence	6

5	list the characteristics of motivation	characteristics of motivation: • Interaction between the individual and the situation • Goal-directed behaviour: • Systems oriented • Positive or negative: • Dynamic and complex in nature	6

(19NM05)- NURSING MANAGEMENT

PLACEMENT-IIYEAR

Hours of instruction

Theory:150hours Credit:7.5

Practical:150hours

Credit:7.5

Course Description

This course is designed to assist students to develop a broad understanding of Principles, concepts, trends and issues related to nursing management. Further, it would provide opportunity to students to understand, appreciate and acquire skills in planning, supervision and management of nursing services at different levels to provide quality nursing services.

Objectives

At the end of the course, students will be able to:

1. Describe the philosophy and objectives of the health care institutions at various levels.
2. Identify trends and issues in nursing
3. Discuss the public administration, health care administration vis a vis nursing administration
4. Describe the principles of administration applied to nursing
5. Explain the organization of health and nursing services at the various levels/institutions.
6. Collaborate and co-ordinate with various agencies by using multi-sectoral approach
7. Discuss the planning, supervision and management of nursing workforce for various health care settings.
8. Discuss various collaborative models between nursing education and nursing service to improve the quality of nursing care
9. Identify and analyze legal and ethical issues in nursing administration
10. Describe the process of quality assurance in nursing services.
11. Demonstrate leadership in nursing at various levels

Course Content

Unit	Hours	Content
I	10	Introduction ❑ Philosophy, purpose, elements, principles and scope of administration ❑ Indian Constitution, Indian Administrative system vis a vis health care delivery system: National, State and Local ❑ Organization and functions of nursing services and education at National, State, District and institutions: Hospital and Community ❑ Planning process: Five-year plans, Various Committee Reports on health, State and National Health policies, national population policy, national policy on AYUSH and plans,
II	10	Management ❑ Functions of administration ❑ Planning and control ❑ Co-ordination and delegation ❑ Decision making – decentralization basic goals of decentralization. ❑ Concept of management Nursing management ❑ Concept, types, principles and techniques ❑ Vision and Mission Statements ❑ Philosophy, aims and objective ❑ Current trends and issues in Nursing Administration ❑ Theories and models Application to nursing service and education
III	15	Planning ❑ Planning process: Concept, Principles, Institutional policies ❑ Mission, philosophy, objectives, ❑ Strategic planning ❑ Operational plans ❑ Management plans ❑ Programme evaluation and review technique (PERT), Gantt chart, Management by objectives (MBO) ❑ Planning new venture ❑ Planning for change ❑ Innovations in nursing Application to nursing service and education

IV	15	Organization ❑ Concept, principles, objectives, Types and theories, Minimum requirements for organization, Developing an organizational Structure, levels, organizational Effectiveness and organizational Climate, ❑ Organizing nursing services and patient care: Methods of patient assignment- Advantages and disadvantages, primary nursing care, ❑ Planning and Organizing: hospital, unit and ancillary services (specifically central sterile supply department, laundry, kitchen, laboratory services, emergency etc) ❑ Disaster management: plan, resources, drill, etc Application to nursing service and education
V	15	Human Resource for health ❑ Staffing • Philosophy • Norms: Staff inspection unit (SIU), Bajaj Committee, High power committee, Indian nursing council (INC) • Estimation of nursing staff requirement- activity analysis • Various research studies ❑ Recruitment: credentialing, selection, placement, promotion ❑ Retention ❑ Personnel policies ❑ Termination ❑ Staff development programme ❑ Duties and responsibilities of various category of nursing personnel Applications to nursing service and education
VI	15	Directing ❑ Roles and functions ❑ Motivation: Intrinsic, extrinsic, Creating motivating climate, Motivational theories ❑ Communication: process, types, strategies, Interpersonal communication, channels, barriers, problems, Confidentiality, Public relations ❑ Delegation; common delegation errors ❑ Managing conflict: process, management, negotiation, consensus ❑ Collective bargaining: health care labour laws, unions,

		professional associations, role of nurse manager ❑ Occupational health and safety Application to nursing service and education
VII	10	Material management ❑ Concepts, principles and procedures ❑ Planning and procurement procedures: Specifications ❑ ABC analysis, ❑ VED (very important and essential daily use) analysis ❑ Planning equipments and supplies for nursing care: unit and hospital ❑ Inventory control ❑ Condemnation Application to nursing service and education
VIII	15	Controlling ❑ Quality assurance – Continuous Quality Improvement • Standards • Models • Nursing audit ❑ Performance appraisal: Tools, confidential reports, formats, Management, interviews ❑ Supervision and management: concepts and principles ❑ Discipline: service rules, self-discipline, constructive versus destructive discipline, problem employees, disciplinary proceedings- enquiry etc ❑ Self-evaluation or peer evaluation, patient satisfaction, utilization review Application to nursing service and education
IX	15	Fiscal planning ❑ Steps ❑ Plan and non-plan, zero budgeting, mid-term appraisal, capital and revenue ❑ Budget estimate, revised estimate, performance budget ❑ Audit ❑ Cost effectiveness ❑ Cost accounting ❑ Critical pathways ❑ Health care reforms ❑ Health economics ❑ Health insurance ❑ Budgeting for various units and levels Application to nursing service and education

X	10	Nursing informatics □ Trends □ General purpose □ Use of computers in hospital and community □ Patient record system □ Nursing records and reports □ Management information and evaluation system (MIES) □ E- nursing, Telemedicine, telenursing □ Electronic medical records
XI	10	Leadership □ Concepts, Types, Theories □ Styles □ Manager behavior □ Leader behavior □ Effective leader: Characteristics, skills □ Group dynamics □ Power and politics □ lobbying □ Critical thinking and decision making □ Stress management Applications to nursing service and education
XII	10	Legal and ethical issues Laws and ethics □ Ethical committee □ Code of ethics and professional conduct □ Legal system: Types of law, tort law, and liabilities □ Legal issues in nursing: negligence, malpractice, invasion of privacy, defamation of character □ Patient care issues, management issues, employment issues □ Medico legal issues □ Nursing regulatory mechanisms: licensure, renewal, accreditation □ Patients' rights, Consumer protection act (CPA) □ Rights of special groups: children, women, HIV, handicap, ageing □ Professional responsibility and accountability □ Infection control □ Standard safety measures

COURSE OUTCOMES (Cos)

CO1	Describe the philosophy and objectives of the Health care institution at various level
CO2	Identify trends and issues in Nursing
CO3	Discuss the public administration, health care administration vis a vis Nursing administration
CO4	Describe the Principles of administration applied to Nursing
CO5	Explain the organization of Health and Nursing services at the various level
CO6	Identify and analyse legal and ethical issues in Nursing Administration

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	2	2	1		2			2	2	2		2	1	2
CO2		2	2			1					2	1	2		2
CO3		3		1			3			1	2		2		2
CO4	2					1			1		1		3	2	2
CO5	1	2	2	2	2		2	2		2		2			
CO6		2	2	2	2		2	2		2		2	2	2	2

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

PRACTICALS

- Prepare prototype personal files for staff nurses, faculty and cumulative records
- Preparation of budget estimate, Revised estimate and performance budget
- Plan and conduct staff development programme
- Preparation of Organization Chart
- Developing nursing standards/protocols for various units
- Design a layout plan for specialty units /hospital, community and educational institutions
- Preparation of job description of various categories of nursing personnel
- Prepare list of equipment and supplies for specialty units
- Assess and prepare staffing requirement for hospitals, community and educational institutions
- Plan of action for recruitment process
- Prepare a vision and mission statement for hospital, community and educational institutions
- Prepare a plan of action for performance appraisal
- Identify the problems of the specialty units and develop plan of action by using problem solving approach
- Plan a duty roster for specialty units/hospital, community and educational institutions
- Prepare: anecdotes, incident reports, day and night reports, handing and taking over reports, enquiry reports, nurses notes, Official letters, curriculum vitae, presentation etc
- Prepare a plan for disaster management
- Groupwork
- Field appraisal report

(19PY06)- CLINICAL SPECIALITY-II
PSYCHIATRIC NURSING

PLACEMENT-IIYEAR Theory:150hours

Credit:7.5

Practical:950hours

Credit:47.5

Course Description

This course is designed to assist students in developing expertise and in-depth understanding in the field of Psychiatric Nursing. It will help students to develop advanced skills for nursing intervention in various psychiatric conditions. It will enable the student to function as psychiatric nurse practitioner/specialist. It will further enable the student to function as educator, manager, and researcher in the field of Psychiatricnursing

Objectives

At the end of the course the students will be able to:

1. Apply the nursing process in the care of patients with mental disorders in hospital andcommunity
2. Demonstrate advanced skills/competence in nursing management of patients with mentaldisorders
3. Identify and care for special groups like children, adolescents, women, elderly, abused and neglected, people living withHIV/AIDS.
4. Identify and manage psychiatricemergencies.
5. Provide nursing care to critically ill patients with mentaldisorders
6. Utilize the recent technology and various treatment modalities in the management of patients with mentaldisorders
7. Demonstrate skills in carrying out crisisintervention.
8. Appreciate the legal and ethical issues pertaining to psychiatric nursing.
9. Identify areas of research in the field of psychiatricnursing.

10. Prepare a design for layout and describe standards for management of Psychiatric units/emergencyunits/hospitals
11. Teach psychiatric nursing to undergraduate students & in-service nurses.

Course Content

Unit	Hours	Content
I	2	Principles and practice of Psychiatric nursing ☐ Review
II	10	Crisis Intervention ☐ Crisis, Definition ☐ Phases In The Development of A Crisis ☐ Types of Crisis; Dispositional , Anticipated Life Transitions Traumatic Stress, Maturation/ Development , Reflecting Psychopathology ☐ Psychiatric Emergencies and their management ☐ Grief and grief reaction ☐ Crisis Intervention; Phases ☐ Post traumatic stress disorder (PTSD) ☐ Role of the Nurse
III	4	Anger/ Aggression Management ☐ Anger and Aggression, Types, Predisposing Factors ☐ Management ☐ Role of The Nurse
IV	5	The Suicidal Client ☐ Epidemiological Factors ☐ Risk Factors • Predisposing Factors: Theories of Suicide-Psychological, Sociological, Biological ☐ Nursing Management
V	5	Disorders of Infancy, Childhood, and Adolescence ☐ Mentally Challenged ☐ Autistic Disorders ☐ Attention-Deficit/Hyperactivity Disorder ☐ Conduct Disorders, behavioural disorders ☐ Oppositional Defiant Disorder ☐ Tourette's Disorders ☐ Separation Anxiety Disorder ☐ Psychopharmacological Intervention and Nursing Management
VI	5	Delirium, Dementia, and Amnesic Disorders ☐ Delirium ☐ Dementia ☐ Amnesia ☐ Psychopharmacological Intervention and Nursing Management
VII	10	Substance-Related Disorders ☐ Substance-Use Disorders ☐ Substance-Induced Disorders ☐ Classes Of Psychoactive Substances ☐ Predisposing Factors

Unit	Hours	Content
		□ The Dynamics Of Substance-Related Disorders □ The Impaired Nurse □ Codependency □ Treatment Modalities For Substance-Related Disorders and Nursing Management
VIII	10	Schizophrenia and Other Psychotic Disorders (Check ICD10) □ Nature of the Disorder □ Predisposing Factors □ Schizophrenia-Types • Disorganized Schizophrenia • Catatonic Schizophrenia • Paranoid Schizophrenia • Undifferentiated Schizophrenia • Residual Schizophrenia □ Other Psychotic disorders • Schizoaffective Disorder • Brief Psychotic Disorder • Schizophrenic form Disorder • Psychotic Disorder Due to a General Medical Condition • Substance-Induced Psychotic Disorder □ Treatment and Nursing Management
IX	8	Mood Disorders □ Historical Perspective □ Epidemiology □ The Grief Response □ Maladaptive Responses To Loss □ Types Of Mood Disorders □ Depressive disorders □ Bipolar disorders □ Treatment and Nursing Management
X	8	Anxiety Disorders □ Historical Aspects □ Epidemiological Statistics □ How Much is too Much? □ Types • Panic Disorder • Generalized Anxiety Disorder • Phobias • Obsessive-Compulsive Disorder • Posttraumatic Stress Disorder • Anxiety Disorder Due to a General Medical Condition • Substance-Induced Anxiety Disorder □ Treatment Modalities □ Psychopharmacology & Nursing Management
XI	5	Somatoform And Sleep Disorders □ Somatoform Disorders □ Historical Aspects

Unit	Hours	Content
		• Epidemiological Statistics • Pain Disorder • Hypochondriasis • Conversion Disorder • Body Dysmorphic Disorder □ Sleep Disorder □ Treatment Modalities and Nursing Management
XII	4	Dissociative Disorders and Management □ Historical Aspects □ Epidemiological Statistics □ Application of the Nursing Management □ Treatment Modalities and Nursing Management
XIII	4	Sexual And Gender Identity Disorders □ Development Of Human Sexuality □ Sexual Disorders □ Variation In Sexual Orientation □ Nursing Management
XIV	4	Eating Disorders □ Epidemiological Factors □ Predisposing Factors : Anorexia Nervosa And Bulimia Nervosa obesity □ Psychopharmacology □ Treatment & Nursing Management
XV	4	Adjustment and Impulse Control Disorders □ Historical and Epidemiological Factors • Adjustment Disorders • Impulse Control Disorders □ Treatment & Nursing Management
XVI	4	Medical Conditions due to Psychological Factors □ Asthma □ Cancer □ Coronary Heart Disease □ Peptic Ulcer □ Essential Hypertension □ Migraine Headache □ Rheumatoid Arthritis □ Ulcerative Colitis □ Treatment & Nursing Management
XVII	8	Personality Disorders □ Historical perspectives □ Types Of Personality Disorders • Paranoid Personality Disorder • Schizoid Personality Disorder • Antisocial Personality Disorder • Borderline Personality Disorder

Unit	Hours	Content
		• Histrionic Personality Disorder • Narcissitic Personality Disorder • Avoidance Personality Disorder • Dependent Personality Disorder • Obsessive-Compulsive Personality Disorder • Passive-Aggressive Personality Disorders □ Identification, diagnostic, symptoms □ Psychopharmacology □ Treatment & Nursing Management
XVIII	8	The Aging Individual □ Epidemiological Statistics □ Biological Theories □ Biological Aspects of Aging □ Psychological Aspects of Aging □ Memory Functioning □ Socio-cultural aspects of aging □ Sexual aspects of aging □ Special Concerns of the Elderly Population □ Psychiatric problems among elderly population □ Treatment & Nursing Management
XIX	5	The person living with HIV Disease □ Psychological problems of individual HIV/AIDS □ Counseling □ Treatment & Nursing Management
XX	5	Problems Related to Abuse or Neglect □ Vulnerable groups, Women, Children, elderly, psychiatric patients, under privileged, challenged □ Predisposing Factors □ Treatment & Nursing management-Counseling
XXI	7	Community Mental Health Nursing □ National Mental Health Program- Community mental health program □ The Changing Focus of care □ The Public Health Model □ The Role of the Nurse □ Case Management □ The community as Client • Primary Prevention • Populations at Risk • Secondary prevention • Tertiary Prevention □ Community based rehabilitation
XXII	5	Ethical and Legal Issues in Psychiatric/Mental Health Nursing □ Ethical Considerations □ Legal Consideration

Unit	Hours	Content
		• Nurse Practice Acts • Types of Law • Classification within Statutory and Common Law • Legal Issues in Psychiatric/Mental Health Nursing • Nursing Liability
XXIII	5	Psychosocial rehabilitation □ Principles of rehabilitation □ Disability assessment □ Day care centers □ Half way homes □ Reintegration into the community □ Training and support to caregivers □ Sheltered workshops □ Correctional homes
XXIV	5	Counseling □ Liaison psychiatric nursing □ Terminal illnesses-Counseling □ Post partum psychosis-treatment, care and counseling □ Death dying-Counseling □ Treatment, care and counseling– • Unwed mothers • HIV and AIDS
XXV	5	Administration and management of psychiatric units including emergency units □ Design & layout □ Staffing, □ Equipment, supplies, □ Norms, policies and protocols □ Quality assurance □ Practice standards for psychiatric nursing □ Documentation
XXVI	5	Education and training in psychiatric care □ Staff orientation, training and development, □ In-service education program, □ Clinical teaching programs.

Course outcomes (Cos)

CO1	Remember the basic concepts of Normal Mental Health behaviour
CO2	Understand the Psychology and management of abnormal behaviour .
CO3	Analyze deviations from normal, able to provide appropriate Interventions.
CO4	Apply revised protocols to manage Psychiatric emergencies.
CO5	Evaluate the outcomes of Nursing interventions and revisions made according to recent advancements.
CO6	Create new interventions/protocols to improve quality of care.

Mapping / Alignment of Cos with PO & PSO

	PO1	PO 2	PO3	PO 4	PO5	PO 6	PO7	PO 8	PO9	PO1 0	PO11	PO12	PSO1	PSO 2	PSO 3
CO1	1	2	2	1		2			2	2	2		2	1	2
CO2		2	2			1					2	1	2		2
CO3		3		1			2			1	2		3		2
CO4	2					1			1		1		2	2	2
CO5	1	2	2	2	2		2	2		3		2			
CO6		2	2	2	2		2	2		2		2	2	2	2

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

PRACTICAL

TOTAL=960 HOURS

1 WEEK=30 HOURS

S.No.	Area of Posting	No. of Week	Total Hours
1	Acute Psychiatric Ward	4	120 Hours
2	Chronic Psychiatric Ward	4	120 Hours
3	De-addiction Unit	4	120 Hours
4	Psychiatric Emergency Unit	4	120 Hours
5	O.P.D (Neuro and psychiatric)	3	90 Hours
6	Child Psychiatric Unit and child guidance clinic	2	60 Hours
7	Post natal ward	1	30 Hours
8	Family Psychiatric Unit	2	60 Hours
9	Field visits	2	60 Hours
10	Rehabilitation	2	60 Hours
11	Community Mental Health Unit	4	120 Hours
	Total	32 Weeks	960 Hours

Essential Psychiatric nursing skills

Procedures Observed

1. Psychometric tests
2. Personality tests
3. Family therapy
4. Assisted
5. CT
6. MRI
7. Behavioral therapy.

Procedures Performed

1. Mental status examination
2. Participating in various therapies – Physical; ECT,
3. Administration of Oral, IM, IV psychotropic drugs
4. Interviewing skills
5. Counseling skills
6. Communication skills

7. Psychoeducation
8. Interpersonal relationships skills
9. Community Survey for identifying mental health problems
10. Rehabilitation therapy
11. Health education and life skills training.
12. Supportive psychotherapy skills
13. Group therapy
Milieu therapy

(19ECFN06)- Forensic Nursing

Introduction :

This course is designed to help students to know the importance of forensic science in Total patient care and to recognize forensic nursing as a specialty discipline in Professional nursing practice.

General Objectives:

On completion of the course, the students will be competent

- Identify forensic nursing as an emerging specialty in healthcare and nursing practice
- Explore the history and scope of forensic nursing practice
- Identify forensic team, role and responsibilities of forensic nurse in total care of victim of violence and in preservation of evidence

Course Outcomes (Cos)

CO1	Remember a basic understanding of computer application in patient care and nursing practice
CO2	Understand the principles of health informatics and its use in developing superior healthcare
CO3	Apply the knowledge of computer and information technology in patient care and nursing education, practice, administration and research
CO4	Analyse the use of information system in healthcare for patient care and utilization of nursing data
CO5	Develop the skills of using data in management of health care
CO6	Create , update and utilize evidence-based practices in nursing education, administration, and practice

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	1	1	2	2	2	1	1	2	3	3	1	2	1
CO2	1	1			2	1	1	1	1	1	3	2	1	1	1
CO3	1	1			1				1	1	3	1			1
CO4	1				2				2	2	3	1			1
CO5	1	1	1	1	1				1	3	3	1	1	1	1
CO6	1	1	1	1	1				1	2	3	1			1

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

SL N O	Learning Objectives	Stress management technique	Hrs
1	Describe about Forensic science	Forensic science Definition • History • Importance in medical science • Forensic science laboratory • Violence Definition • Epidemiology • Source of data Sexual abuse-child and women•	10 (T)
2	Explain Forensic nursing	Forensic nursing Definition • History and development • Scope - setting of practice, areas of practice and subspecialties • Ethical issues • Roles and responsibilities of nurse•	8
3	Enumerate the Forensic team Members and their roles	Forensic team Members and their roles • Comprehensive forensic nursing care of victim and family • Physical aspects • Psychosocial aspects • Cultural and spiritual aspects • Legal aspects • Assist forensic team in care beyond scope of her practice • Admission and discharge/referral/death of victim of violence • Responsibilities of nurse as a witness • Evidence preservation-role of nurses • Observation • Recognition • Collection • Documentation of Biological and other evidence related to • criminal/traumatic event • Forwarding biological samples for forensic	12

(19ECSMT07)- Stress Management Technique

Introduction :

Instruction in theoretical approaches and interventions in family therapy, grounded in human systems theory. Includes process of family therapy and special aspects of family therapy..

General Objectives:

As a result of taking this class, students are expected to be able to

1. Understand the nature of stress;
2. Comprehend the psychological and physiological effects of stress;
3. Grasp the concepts related to individual and cultural differences in stress reactions across lifespan;
4. Assess individual risk factors as related to stress (behavioral, emotional, physical, spiritual);
5. Understand and learn how to use various techniques and determine the most appropriate method to aid in managing your reaction to stress;
6. Develop the ability to tap personal strengths for preventing stress and achieving meaning go

Course Outcomes (Cos)

CO1	Remember the nature of stress;
CO2	Understand the psychological and physiological effects of stress;
CO3	Apply the concepts related to individual and cultural differences in stress reactions across lifespan
CO4	Analyse and learn how to use various techniques and determine the most appropriate method to aid in managing your reaction to stress
CO5	Develop the ability to tap personal strengths for preventing stress and achieving meaning goal
CO6	Create nursing care plan in Stress management technique

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	1	1	2	2	2	1	1	2	3	3	1	2	1
CO2	1	1	1	1	2	1	1	1	1	1	3	2	1	1	1
CO3	1	1	1	1	1	1			1	1	3	1	1	1	1
CO4	1				2				2	2	3	1			
CO5	1				1				1	3	3	1	1	1	1
CO6	1			1	1	1			1	2	3	1			

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

S No	Learners Objective	Stress management technique	Hrs
1	Explain the nature of the stress	UNDERSTANDING THE NATURE OF STRESS A. The Meaning of Stress B. The Body's Reactions to Stress C. Sources of Stress Across the Lifespan D. Adaptive and Maladaptive Behavior E. Individual and Cultural Differences	10(T)
2	Enlist the strategies behind the Stress management and prevention	STRATEGIES OF STRESS MANAGEMENT AND PREVENTION A. Challenging Stressful Thinking B. Problem Solving and Time Management C. Psychological and Spiritual Relaxation Methods D. Physical Methods of Stress Reduction E. Preparing for the Future: College and Occupational Stress F. Care of the Self: Nutrition and Other Lifestyle Issues G. Stress and Conflict in Relationship	10
3	List The Strategies Of Synthesis And Prevention of suicide	STRATEGIES OF SYNTHESIS AND PREVENTION A. Resilience and Stress B. Optimal Functioning C. Making Changes Last	10

(19ECPSA08)- Prevention Of Suicidal Attempts

Introduction :

Instruction in theoretical approaches and interventions in family therapy, grounded in human systems theory. Includes process of family therapy and special aspects of family therapy.

General Objectives:

As a result of taking this class, students are expected to be able to

- 1) The incidence and prevalence of various suicidal behaviors in demographic and diagnostic groups
- 2) Ethical considerations and implications related to suicidality;
- 3) The significance of culture, race, and ethnicity on suicidality
- 4) Religious/spiritual influences on suicidality
- 5) Risk, identification, and assessment of suicidal behaviors across the lifecycle

Course Outcomes (Cos)

CO1	Remember the incidence and prevalence of various suicidal behaviors in demographic and diagnostic groups
CO2	Understand significance of culture, race, and ethnicity on suicidality
CO3	Apply Ethical considerations and implications related to suicidality
CO4	Analyse and learn how to use various techniques and determine the most appropriate method to aid in managing your reaction to stress
CO5	Develop the Evidence-based treatment interventions for suicidality, including Crisis management
CO6	Create nursing care plan in Prevention of Suicidal Attempts

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	1	1	2	2	2	1	1	2	3	3	1	2	1
CO2	1	1	1	1	2	1	1		1	1	3	2	1		
CO3	1	1			1	1	1		1	1	3	1	1	1	1
CO4	1	1			2	1			2	2	3	1			
CO5	1	1			1	1			1	3	3	1			
CO6	1	1	1	1	1	1			1	2	3	1	1	1	1

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

SL N O	Learning objective	Stress management technique	Hrs
1	Describe about Ethics in Suicidality and Crisis Management	Overview of Course, Introduction, and Ethics and Suicidality; Crisis Management This module introduces the importance of recognizing personal values and ethics in relation to suicide; examines multiple ethical perspectives regarding suicide, and explores evidence-based practices for immediate intervention in a suicide crisis.	10(T)
2	Describe about Evidence-Based Practices and Suicide	Evidence-Based Practices and Suicide This module will examine evidence-based practices that have been shown to be effective at reducing suicidal behavior.	10
3	Enumerate the Sociocultural Factors behind Suicide	Sociocultural Factors and Suicide This module will examine the relationship between culture, race, ethnicity, religion/spirituality, and suicide assessment. The influence of these socio-cultural factors and risk and protective factors and intervention strategies will be explored.	10

(19ECPS09)- Public Speaking

Introduction :

This course is an introduction to speech communication which emphasizes the practical skill of public speaking, including techniques to lessen speaker anxiety, and the use of visual aids to enhance speaker presentations. Civility and ethical speech-making are the foundations of this course. Its goal is to prepare students for success in typical public speaking situations and to provide them with the basic principles of organization and research needed for effective speeches.

General Objectives:

As a result of taking this class, students are expected to be able to:

- Plan and prepare speeches that inform, persuade, or fulfill the needs of a special occasion;
- Use presentation aids to enhance your speeches;
- Outline speeches in a logical and thorough fashion;
- Conduct meaningful research on a variety of topics;
- Analyze audience and design speeches to reflect your an

Course Outcomes (Cos)

CO1	Remember the speeches in a logical and thorough fashion;
CO2	Understand audience and design speeches to reflect your analysis
CO3	Apply the communication process
CO4	Analyse audience and design speeches to reflect analysis
CO5	Develop speeches based on a variety of verbal and non-verbal criteria
CO6	Create nursing care plan in Public speaking

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	1	1	2	2	2	1	1	2	3	3	1	2	1
CO2	1	1	1	1	2	1	1	1	1	1	3	2	1	1	1
CO3	1	1	1	1	1	1			1	1	3	1	1	1	1
CO4					2	1			2	2	3	1			1
CO5	1	1			1	1			1	3	3	1			1
CO6	1	1			1	1			1	2	3	1			1

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

Sl No	Learning Objective	Public Speaking	Hrs
1	Describe the introduction to public speaking	Introduction to Public Speaking ○ Welcome to Public Speaking ○ Objectives, Outline, and Introduction ○ Benefits of Public Speaking ○ Models of Communication ○ Elements of the Communication Process ○ Types of Speeches and Speaking Occasions ○ Speaking Competencies	10(T)
2	Explain informative speaking	Informative Speaking ○ Objectives, Outline, and Introduction ○ Functions of Informative Speeches ○ Role of Speaker ○ Types of Informative Speeches ○ Developing Informative Speeches	10
3	Describe the delivering of speech	DELIVERING YOUR SPEECH ○ Objectives, Outline, and Introduction ○ Methods of Delivery ○ Vocal Aspects of Delivery ○ Nonverbal Aspects of Delivery ○ Mastering the Location ○ Preparation, Practice, and Delivery	10

(19ECFT10)- Family Therapy

Introduction:

Instruction in theoretical approaches and interventions in family therapy, grounded in human systems theory. Includes process of family therapy and special aspects of family therapy..

General Objectives:

As a result of taking this class, students are expected to be able to:

1. Articulate a fundamental understanding of family systems theory.
2. Describe assessment, treatment planning, intervention, and evaluation in family therapy.
3. Compare, and contrast two or more approaches in family therapy.
4. Describe family developmental processes as they relate to the family lifecycle.
5. Describe how problems develop, are maintained, and are resolved within a family system.

Course Outcomes (Cos)

CO1	Remember the fundamental understanding of family systems theory
CO2	Understand assessment, treatment planning, intervention, and evaluation in family therapy
CO3	Apply basic family therapy skills during in-class demonstrations and in a focused conversation with a family.
CO4	Analyse how problems develop, are maintained, and are resolved within a family system
CO5	Develop family developmental processes as they relate to the family lifecycle
CO6	Create nursing care plan in Family therapy

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	1	1	2	2	2	1	1	2	3	3	1	2	1
CO2	1	1	1	1	2	1	1	1			3	2	1	1	1
CO3	1			1	1	1	1	1	1	1	3	1			1
CO4	1			1	2	1			2	2	3	1			1
CO5	1	1			1	1			1	3	3	1			1
CO6	1	1			1	1			1	2	3	1	1	1	1

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

Sl No	Learning objectives	. FAMILY THERAPY	Hrs
1	Describe the foundations of family therapy	Introductions. • Foundations of Family Therapy. • Collaborative Conversation/Planning (To define and recognize student needs, goals, aspirations related to learning family therapy and material covered in this course. • Critical Thinking & Reflective Practice in Counseling and Scholarship	10
2		CONCEPTUALIZING FAMILIES AS HUMAN SYSTEMS • Foundations Of Systems Theory. • Conceptualizing Families As Human Systems: • Applications Of Systems Theory. • The Fundamentals Of Process Of Family Therapy: • The Developmental Lifecycle Of Couples And Families. • The Process Of Family Therapy: • Systemic And Behavioral Treatment Planning.	10
3	○	○ THE PROCESS OF FAMILY THERAPY: • Ethics in Family Therapy. • Diagnosis in Family Therapy	10

SYLLABUS M.SC NURSING

Community Health Nursing

(Revised Regulations-2019)



Bharath Institute of Higher Education and Research
(Deemed To Be University)
Chennai

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH TAMILNADU, CHENNAI



The motto of the BIHER is win the world by innovation. To the stars by hard work. The emblem of the Bharath Institute of Higher Education and Research is a symbolic expression of equality, knowledge, enlightenment, expression of peace and love and all this based as a source of all medicines

The main aim of establishing the institute was to provide high quality education to students from across the world in several relevant fields. The institute was developed to become a premier university for Teaching, Learning, Research, and Innovation. Students here are trained to create a better society with ethics and morals.

Bharath Institute of Higher Education & Research (TamilNadu) earlier known as **BharathUniversity**, commonly referred to as BIHER, commenced its establishment in the academic year of 1984. Bharath University has been given the status of 'Deemed to be University'. The institute is approved and recognized by the All-India Council for Technical Education (AICTE) and the University Grants Commission (UGC) respectively. It has also been accredited with grade 'A' by the National Assessment and Accreditation Council (NAAC).

PHILOSOPHY:

Bharath University of Higher Education and Research believes that:

Post Graduate programme is essential to prepare nurses to improve the quality of nursing education and practice in India. Post graduate programme in nursing builds upon and extends competence acquired at the graduate levels, emphasizes application of relevant theories into nursing practice, education, administration and development of research skills.

The programme prepares nurses for leadership position in nursing and health fields who can function as nurse specialists, consultants, educators, administrators and researchers in a wide variety of professional settings in meeting the National priorities and the changing needs of the society. This programme provides the basis for the post masteral programme in nursing. Further the programme encourages accountability and commitment to lifelong learning which fosters improvement of quality care.

AIM:

The aim of the postgraduate program in nursing is to prepare graduates to assume responsibilities as nurse specialists, consultants, educators, administrators in a wide variety of professional settings.

OBJECTIVES:

On Completion of the two years M. Sc Nursing programme, the graduate will be able to:

1. Utilize/apply the concepts, theories and principles of nursing science
2. Demonstrate advance competence in practice of nursing
3. Practice as a nurse s specialist.
4. Demonstrate leadership qualities and function effectively as nurse educator and manager.
5. Demonstrate skill in conducting nursing research, interpreting and utilizing the findings from health related research.
6. Demonstrate the ability to plan and effect change in nursing practice and in the health care delivery system.
7. Establish collaborative relationship with members of other disciplines
8. Demonstrate interest in continued learning for personal and professional advancement.

VISION

Bharath Institute of Higher Education & Research (BIHER) envisions and constantly strives to provide an excellent academic and research ambience for students and members of the faculties to acquire professional competence alongwith human dignity, and spearhead the transformation of community through continuous discovery in science and technology.

MISSION

To develop as a Premier University for Teaching, Learning, Research and Innovation on par with leading global universities.

To impart education and training to students for creating a better society with ethics and morals.

To foster an interdisciplinary approach in education, research and innovation by supporting lifelong professional development, enriching knowledge banks through scientific research, promoting best practices and innovation, industry-driven and institute-oriented cooperation, globalization and international initiatives.

To develop as a multi-dimensional institution contributing immensely to the cause of societal advancement through spread of literacy, an ambience that provides the best of international exposures, provide health care, enrich rural development and most importantly impart value-based education.

To establish benchmark standards in professional practice in the fields of innovative and emerging areas in medicine, dentistry, nursing, physiotherapy, allied sciences, engineering, and management.

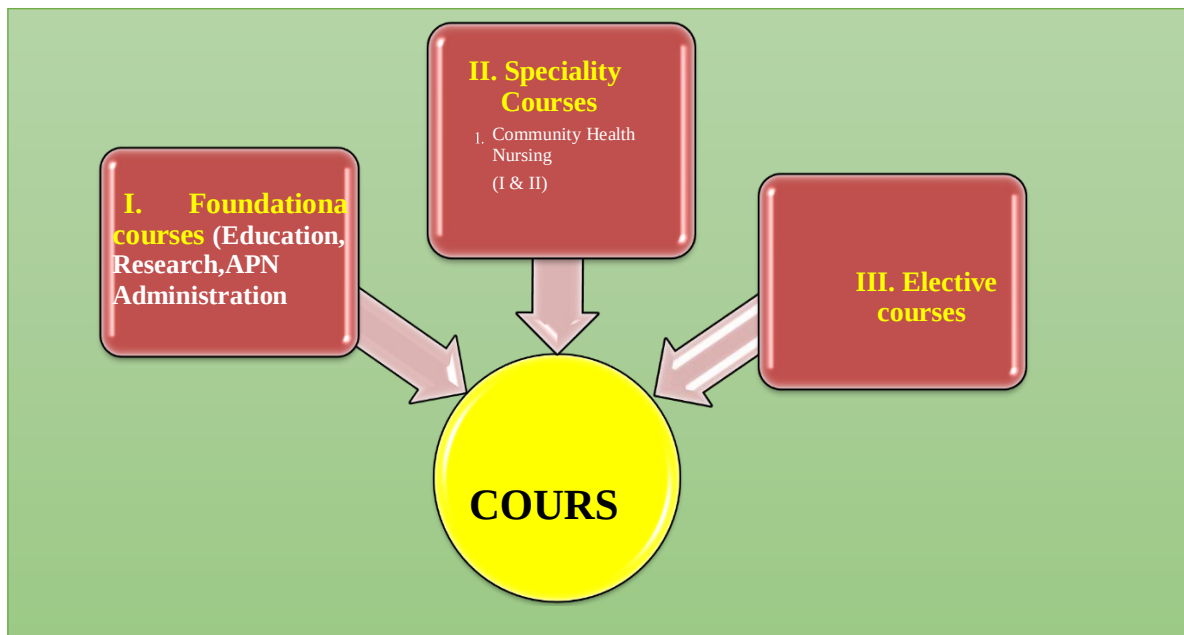
To launch new programmes with innovative curriculum design by provide multi-faceted exposure in various subjects.

To provide flexibility to students - options / add-ons to core subjects, develop Device Agnostic Technology to access online content Funding/incubation entrepreneurial ideas flipped class room – Integrated Courses & Need based learning.

Programme Educational Objects (PEO)

1. To become a competent nurse qualified to practice in a variety of settings in either public/ government or private healthcare
2. To demonstrate the ability to plan and effect change in nursing practice and in the health care delivery system.
3. To ordinate/manage care by being active participant of inter-professional team and member of a profession demonstrating self-responsibility and accountability for practice as well as to support the profession.
4. To develop leadership and managerial skills to meet the goal/ challenges of a healthcare organization or an Educational Institute
5. To become exemplary citizens by adhering to code of ethics and professional conduct at all times in fulfilling personal, social and professional obligations so as to respond to national aspirations

MSC NURSING PROGRAM-TWO YEARS
CHOICE BASED CREDIT SYSTEM(CBCS)
COMPETENCY BASED CURRICULUM



PROGRAMME OBJECTIVES

PO1	Provide holistic care recognizing individual patient's preferences, values and needs, that is compassionate, coordinated, age and culturally appropriate safe and effective care.
PO2	Demonstrate accountability for the delivery of standard-based nursing care that is consistent with moral, altruistic, legal, ethical, regulatory and humanistic principles.
PO3	Influence the behaviour of individuals and groups within their environment and facilitate establishment of shared goals
PO4	Demonstrate awareness and responsiveness to the context of healthcare system and ability to manage resources essential to provide optimal quality of care
PO5	Use technology and synthesize information and collaborate to make critical decisions that optimize patient outcomes
PO6	Interact effectively with patients, families and colleagues fostering mutual respect and shared decision making to enhance patient satisfaction and health outcomes
PO7	Function effectively within nursing and interdisciplinary teams, fostering open communication, mutual respect, shared decision making, team learning and development.
PO8	Minimize risk of harm to patients and providers through both system effectiveness and individual performance
PO9	Use data to monitor the outcomes of care processes and utilize improvement methods to design and test changes to continuously improve the quality and safety of healthcare system
PO10	Identify, evaluate and use the best current evidence coupled with clinical expertise and consideration of patient's preferences, experience and values to make practical decisions.
PO11	To become Nurse Researcher and demonstrate skill in conducting research and integrate Evidence based practice in health care.
PO12	To become Nurse Educator to understand the process to understand the process of curriculum development and the methodology of curriculum change, innovation and integration.

PROGRAMME SPECIFIC OUTCOME (PSOS)

PSO1	To become a Nurse Educator in Health Care settings and educational Institutions.
PSO2	To Become Nurse Specialist in the field of community health Nursing.
PSO3	To develop leadership qualities and managerial skills to meet challenges/goals of an Institution or an health care organization.

(** PSO- 2 or 3)

MAPPING / ALIGNMENT OF PEO VS PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
PEO1		✓										✓	✓		✓
PEO2											✓				
PEO3		✓					✓	✓	✓	✓			✓	✓	
PEO4	✓		✓	✓											
PEO5		✓			✓	✓	✓		✓					✓	

MAPPING BETWEEN COURSE OUTCOMES (COS) AND PROGRAMME OUTCOMES (POS)

Year	Courses/ SOs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
I	THEORY												
	Nursing education												
	Advanced Nursing Practice							✓					
	Nursing Research & statistics												
	Clinical Speciality I (community health Nursing-I)						✓	✓					
	PRACTICAL				✓								
	Nursing education												
	Advanced nursing practice				✓								
	Nursing Research and Statistics												
	*Clinical speciality-I (community health nursing-I)												
II	THEORY	✓											
	Nursing Management			✓	✓								
	Clinical Speciality II (community health Nursing -II)	✓						✓					
	PRACTICAL												
	Nursing Management					✓	✓	✓					
	Nursing Research (Dissertation)	✓		✓				✓					
	Clinical Speciality II (community health Nursing-II)												

MAPPING BETWEEN PROGRAMME ELECTIVES (PEs) AND PROGRAMME OUTCOMES (POs)

Year	Elective Courses/ SOs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
I	Genetic And Health												
	AYUSH												
	Public Health Nurse		✓										
	Community												

II	Nutrition												
	Tele-Nursing In Community												
	Rehabilitative Care						✓						
	Epidemiology												
	Community Psychiatry							✓					
	Occupational Health							✓		✓			
	Counselling Technique				✓								

M.Sc. Nursing Ist Year						
Course Code	Course Category	Course Title	L	T	P	C
THEORY						
19NEo1	CC	Nursing education	3	0	3	7.5
19ANPo2	CC	Advanced Nursing Practice	3	0	3	7.5
19NRS03	CC	Nursing Research & statistics	3	0	3	7.5
19COHNo4	SP	Clinical Speciality I (Community Health Nursing-I)	3	0	3	7.5
PRACTICAL						
19NEo1	CC	Nursing education	0	0	3	7.5
19ANPo2	CC	Advance nursing practice	0	0	3	10
19NRS03	CC	Nursing Research and Statistics	0	0	3	5
19COHNo4	SP	*Clinical specialty-I (community health nursing -I)	0	0	3	32.5

M.Sc. Nursing IInd Year						
Course Title			L	T	P	C
THEORY						
19NM05	CC	Nursing Management	3	0	3	7.5
19COHNo6	SC	Clinical Specility II (Community Health Nursing-II)	3	0	3	7.5
PRACTICAL						
19NM05	CC	Nursing Management	0	0	3	7.5
19NRS03	CC	Nursing Research- Dissertation	0	0	3	15
19COHNo6	SC	*Clinical specialty-II (Community Health Nursing-II)	0	0	3	47.5

ELECTIVECOURSES

(StandardNational/InternationalModulescanbeused)

Course Code	Elective courses	L	T	P	C
I Year					
19ECDM01	Disaster Management	3	0	2	2
19ECPR02	Public Relation	3	0	2	2
19ECHT03	Health Technology	3	0	0	2
19ECHS04	Health statistics	3	0	1	2
19ECIEC05	IEC	3	0	1	2
II Year					
19ECAP06	Air Pollution	3	0	1	2
19EBT07	Blood Transfusion Safety	3	0	1	2
19ECCS08	Chemical Safety	3	0	1	2
15ECCA09	Child Abuse	3	0	2	2
15ECA10	Alcoholism	3	0	2	2
	(4 Courses Mandatory) – 2 Credits = 40 Hours				

SUMMARY OF CURRICULUM STRUCTURE AND CREDIT & CONTACT HOUR DISTRIBUTION

S.No	Sub Area	Credit As per Year		No. of Credit
		I	II	
1	Core Courses	45	30	75
2	Speciality Courses	40	55	95
3	Elective Courses	4	4	8
	TOTAL			178

REGULATIONS

ELIGIBILITY CRITERIA/ADMISSION REQUIREMENTS:

- The candidate should be a Registered Nurse and Registered midwife or equivalent with any State Nursing Registration Council.
- The minimum education requirements shall be the passing of: B.Sc. Nursing / B.Sc. Hons. Nursing / Post Basic B.Sc. Nursing with minimum of 55% aggregate marks.
- The candidate should have undergone in B.Sc. Nursing / B.Sc. Hons. Nursing / Post Basic B.Sc. Nursing in an institution which is recognized by Indian Nursing Council.
- Minimum one year of work experience after Basic B.Sc. Nursing.
- Minimum one year of work experience prior or after Post Basic B.Sc. Nursing.
- Candidate shall be medically fit.
- 5% relaxation of marks for SC/ST candidates may be given.
- Preference will be given to candidate with clinical experience on the area of specialty chosen.

ELIGIBILITY CERTIFICATE

- Candidate from Tamil Nadu as well as other state need to obtain an eligibility certificate from the Bharath University by remitting the prescribed fees along with the application form.
- Candidate from other states must produce the migration certificate at the time of admission.

REGISTRATION

The candidate admitted to the programme shall register with the Bharath University by remitting the prescribed fees along with the application form for registration duly filled in and forwarded to the Bharath University through the head of the Institution within the stipulated date.

SELECTION OF THE CANDIDATE:

- Candidate will be selected on the basis of merit and experience in Specialty areas by college selection committee member.
- After scrutiny of application eligible candidate will be called for an Interview/ entrance test before admission.
- Admission notification will intimate the date of commencement of course.

PROGRAMME OF STUDY

The M. Sc (Nursing) programme is of 2 years, non-semester study. During the programme, theory, clinical experience in the hospitals & community will be provided.

Duration

Duration of the course is 2 years for M.Sc. (N)

Available	52 weeks
Vacation	4 weeks
Examination	2 weeks
Gazetted holidays	3 weeks
Total weeks available	43 weeks
40 hours per week	1720 hours
Total hours for 2 years	3440 hours

Course of Instruction

I. YEAR

Theory (hrs) Credit Practical (hrs)Credit

Nursing education	150	7.5	150	7.5
Advance nursing practice	150	7.5	200	10
Nursing Research and Statistics	150	7.5	100	5
*Clinical specialty –I	150	7.5	650	32.5
TOTAL	600	30	1100	55

II. YEAR

Theory(hrs) Credit Practical (hrs)Credit

Nursing Management	150	7.5	150	7.5
Nursing Research (Dissertation)			300	15
*Clinical Specialty-II	150	7.5	950	47.5
TOTAL	300	15	1400	70

Educational visit 2 weeks

Scheme of Examination

	Theory			Practical		
1st year	Hours	Internal	External	Hours	Internal	External
Nursing education	3	25	75	3	50	50
Advance nursing practice	3	25	75	3		
Nursing Research and Statistics	3	25	75	3		
Clinical speciality -I	3	25	75	3	100	100
Total		100	300		150	150
II nd Year						
Nursing Management	3	25	75	3		
Dissertation & Viva				3	100	100
Clinical Speciality-II	3	25	75	3	100	100
Total		50	150		200	200

Nursing research=50 and statistics=25

** Nursing research=15 and statistics=10

1. Minimum pass marks shall be 50 % in each of the Theory and practical papers separately.
2. A candidate must have minimum of 80% attendance (irrespective of the kind of absence) in theory and practical in each subject for appearing for examination.
3. A candidate must have 100% attendance in each of the practical areas before award of degree
4. A candidate has to pass in theory and practical exam separately in each of the paper.
5. If a candidate fails in theory or practical paper, he/she has to re-appear for both the papers (Theory and practical).
6. Maximum no of attempts permitted for each paper is 3 including first attempt

7. The maximum period to complete the course successfully should not exceed 4 (four) years
8. A candidate failing in more than two subjects will not be promoted to the II year.
9. No candidate shall be admitted to the subsequent II-year examination unless the candidate has passed the I year examination.
10. Maximum number of candidates for all practical examination should not exceed 10 per day.
11. Provision of Supplementary examination should be made.
12. All practical examinations must be held in the respective clinical areas.
13. One internal and One external examiner (outside the University) should jointly conduct practical examination for each student
14. An examiner should be M.Sc (N) in concerned subject and have minimum of 3 (three) years post graduate teaching experience.
15. One internal and One external examiner (outside the University) should evaluate dissertation and jointly conduct viva-voce for each student
16. For Dissertation Internal examiner should be the guide and external examiner should be Nursing faculty / nursing expert in the same clinical speciality holding Ph.D. /M.Phil/M.Sc. Nursing with a minimum of 3 years' experience in guiding the research projects for Post Graduate students of Nursing.

ATTENDANCE:

A Candidate pursuing M.Sc. Nursing Course shall study in the concerned department of the institution for the entire period as a full-time student. No candidate is permitted to work in any laboratory/college/industry/pharmacy etc while studying post graduate course. No candidate should join any other course of study or appear for any other examination conducted by the university or any other university in India or abroad during the period of registration.

Each year shall be taken as a unit for the purpose of calculating attendance.

1. Every student shall attend symposium, seminars, conferences, journal review meetings and lectures during each year as prescribed by the department/college/university and not absent him/her without valid reasons.
2. Candidate who has put in a minimum of 80% attendance in the theory and practical assignments separately shall be permitted to appear for M.Sc. Nursing examination, provided she /he has completed the course and has shown satisfactory progress mentioned in the logbook
3. Any student who fails to complete the course in the manner stated above shall not be permitted to appear for the university examination

INTERNAL ASSESSMENT MARKS

There shall be continuous internal assessment. The marks for internal assessment set apart for the theory and practical in each subject there shall

be two tests and two assignments in each subject, the average of which shall be taken for the internal assessment. The principal shall notify the internal assessment marks in the notice board at the end of each term without fail under the intimation of the university. The principal of the college shall send the internal assessment marks of the students to the university

A student must secure at least 50% of the total marks fixed for internal assessment in a particular subject in order to be eligible to appear in university examination in all subject

Distribution of internal assessment marks for various subjects

First year

SI.NO	SUBJECT	INTERNALASSESSMENT MARKS
01	NURSING EDUCATION Theory Practical	25 50
02	ADVANCE NURSING PRACTICE	25
03	NURSING RESEARCH AND STATISTICS	25
04	CLINICAL SPECIALITY-I Theory Practical	25 100
	TOTAL	230

Second year

SI.NO	SUBJECT	INTERNAL ASSESSMENT MARKS
01	NURSING MANAGEMENT	25
02	DISSERTATION AND VIVA PRACTICAL	NIL
03	CLINICAL SPECIALITY-I Theory Practical	25 100
	TOTAL	140

MONITORING PROGRESS OF STUDIES:

Every candidate shall maintain a log book and record of her/his participation in the training programme conducted by the department such as journal reviews, seminars etc. The faculty members and peers will assess the presentation using relevant check list. The presentation made by the candidates should be mentioned in the logbook. The logbook shall be scrutinized and certified by the Tamilnadu Nursing Council and presented in the university practical examination

M.Sc. Nursing Log Book:

The university has prescribed a log book which is scrutinized by Tamilnadu Nursing Council.

DISSERTATION:

Each candidate pursuing M.Sc. Nursing course is required to carry out on selected research project under the guidance of a recognized Post Graduate Teacher. The results of such a work shall be submitted in the form of dissertation.

The dissertation is aimed to train a graduate student in research methods and techniques. It includes identification of problems, formulation of hypothesis, search and review of literature, getting acquainted with recent advances, designing of a research study, collection of data, critical analysis, interpretation of results and drawing conclusions. Every candidate shall submit to the Registrar of the university in the prescribed proforma. No change in the dissertation topic or guide shall be made without prior approval of the university.

The dissertation should be written under the following headings:

- I. Introduction
- II. Aims or objectives of study
- III. Review of literature
- IV. Materials and methods
- V. Results
- VI. Discussion
- VII. Conclusion
- VIII. Summary
- IX. References
- X. Tables
- XI. Annexure

The written text of dissertation shall not be less than 10 pages and shall not exceed 100 pages excluding references, tables, questionnaires, and other annexure. It should be neatly typed in double line spacing on one side of paper (A4 Size, 8.27" x 11.69") and bound properly. Spiral binding should not be done. A declaration by the candidate for having done the work should also be included and certified by the guide, head of the department and head of the institution. Six copies of dissertation shall be submitted to the registrar through proper channel along with soft copy. Three months before the final examination. It shall be assessed by three examiners, one internal and two externals, appointed by the university. Acceptance of the dissertation is a pre-requisite for a candidate to appear for final examination.

Regulations for examination:

The M.Sc. nursing course shall have two examinations, one at the end of the first year and second at the end of the second year

Eligibility for appearing for the examination:

75% of the attendance for theory and practical. However, 100% of attendance for practical before the award of degree.

M.Sc. Nursing, I Year Examination:

It consists of theory (written) papers and practical examinations.

Theory – (Written) Examination:

The following 4 papers are the theory papers for candidates

1. Nursing education
2. Advance nursing practice
3. Nursing research and statistics
4. Clinical specialty

Criteria to pass:

To be declared as pass in the M.Sc. I year a candidate has to pass in all the prescribed subjects for the I year.

Practical examination

There shall be practical examination in nursing education and nursing specialty chosen by the candidate

01. Common Subject:

A candidate shall secure in each of the common subjects not less than 50% marks prescribed for university examination.

02. Nursing Specialty Subject:

A candidate shall secure not less than 50% marks prescribed for university examination in theory and practical examination exclusive of internal assessment marks.

Carry over

The candidate who has failed in more than two subjects will not be promoted to the II year

M.Sc. Nursing I Year Examination:

The university examination consists of dissertation, written papers (theory), practical examination and viva-voce examination, including dissertation.

Dissertation:

Only candidates who dissertation has been accepted shall be eligible to appear for M.Sc. II year examination.

Theory – (Written) Examination:

The following 2 papers are the theory papers for candidates

1. Nursing management
2. Clinical speciality

Practical examination

There shall be practical examination in nursing speciality chosen by the candidate

Criteria to pass:

To be declared as pass in the M.Sc. II year a candidate has to pass in all the prescribed subjects for the II year.

01. Common Subject:

A candidate shall secure in each of the common subjects not less than 50%marks prescribed for university examination.

02. Nursing Speciality Subject:

A candidate shall secure not less than 50% marks prescribed for university examination in theory and practical examination exclusive of internal assessment marks.

Classification of results:

- 50% pass in each of the theory and practical separately.
- 50-59% Second division
- 60-74% first division
- 75% and above is distinction

For declaring the rank aggregate of 2 years marks to be considered

If the candidate fails in either practical or theory paper, he/she has to re-appear for both the papers (theory and practical)

Maximum no. of attempts per subject is three (3) inclusive of first attempt. The maximum period to complete the course successfully should not exceed 4 years

Candidate, who fails in any subject, shall be permitted to continue the studies into the second year. However the candidate shall not be allowed to appear for the Second year examination till such time that he/she passes all subjects of the first year M.Sc nursing examination

Eligibility for degree:

A candidate shall have passed in all the subjects of M.Sc. I & II Year to be eligible for the award of degree.

Practical

- 4 hours of practical examination per student.
- Maximum number of 10 students per day per specialty.
- The examination should be held in clinical area only for clinical specialties
- One internal and external should jointly conduct practical examination
- Examiner – Nursing faculty teaching respective specialty area in M.Sc nursing programme with minimum 3 years' experience after M.Sc nursing.

Guidelines for Dissertation

Tentative Schedule for dissertation

S. No.	Activities	Scheduled Time
1.	Submission of the research proposal	End of 9 th month of 1 st year
2.	Submission of dissertation – Final	End of 9 th month of II nd Year

Note: - Administrative approval and ethical clearance should be obtained

Research Guides

a) Qualification of Guide

Main guide: Nursing faculty / nursing expert in the same clinical speciality holding Ph.D./M.Phil/M.Sc. Nursing with a minimum of 3 years' experience in teaching in the Post Graduate Programme in Nursing.

Co-Guide: A Co-Guide is a nursing faculty/expert in the field of study (may be from outside the college but should be within the city.)

b) Guide – Students Ratio

Maximum of 1:4 (including as co-guide)

c) Research Committee

There should be a research committee in each college comprising of minimum 5 members chaired by the Principal, College of Nursing.

d) Change of guide:

In the event of a register guide leaving the college for any reasons or in the event of death of guide, guide may be changed with prior permission from the university

Evaluation of Dissertation:

The dissertation shall be evaluated by:

1. Professor of Nursing Research common to all the branches of speciality.
2. Professor in clinical speciality.
3. An external examiner which experience in Nursing Research who will be common to all the branches of speciality
4. The number of pages of dissertation should not exceed 60 pages
5. The viva-voce examination should be a minimum 30 minutes per student.

Resubmission of theses:

- Resubmission of theses with corrections can be done within 6 months
- Resubmission of theses with total re-doing can be done within 2 years.

Conduct and Discipline:

1. Students are expected to follow ethical values in personal and professional life and maintain the professional standards in college and hospital.
2. Students should make every effort to care of the college, hostel and hospital property.
3. Students are expected to abide by the rules and regulations laid by the College, Hospital and Hostel.

Eligibility for Examiners**Internal examiner:**

A person to be eligible to be appointed as internal examiner shall be recognized PG teacher of BIHER in the concerned branch of speciality and shall have at least 3 years of PG Teaching experience M.Sc. Nursing students.

External examiner:

A person to be eligible to be appointed as external examiner shall have the qualification prescribed above for a guide and shall have at least 3 years of PG Teaching experience for M.Sc. Nursing students.

Number of examiners:

There shall be two examiners, one internal and one external

(19NEo1)NURSING EDUCATION

PLACEMENT-IYEAR

Hours of instruction
Theory:150hours Credit:7.5
Practical :150 hours Credit: 7.5

This course is designed to assist students to develop a broad understanding of Fundamental Principles, concepts, trends and issues related to education and nursing education. Further, it would provide opportunity to students to understand, appreciate and acquire skills in teaching and evaluation, curriculum development, implementation, maintenance of standards and accreditation of various nursing educational programs.

Objectives

At the end of the course, students will be able to:

1. Explain the aims of education, philosophies, trends in education and health: its impact on nursing education.
2. Describe the teaching learning process.
3. Prepare and utilize various instructional media and methods in teaching learning process.
4. Demonstrate competency in teaching, using various instructional strategies.
5. Critically analyze the existing nursing educational programs, their problems, issues and future trends.
6. Describe the process of curriculum development, and the need and methodology of curriculum change, innovation and integration.
7. Plan and conduct continuing nursing education programs.
8. Critically analyze the existing teacher preparation programs in nursing.
9. Demonstrate skill in guidance and counseling.
10. Describe the problems and issues related to administration of nursing curriculum including selection and organization of clinical experience.
11. Explain the development of standards and accreditation process in nursing education programs.
12. Identify research priorities in nursing education.
13. Discuss various models of collaboration in nursing education and services.
14. Explain the concept, principles, steps, tools and techniques of evaluation
15. Construct, administer and evaluate various tools for assessment of, knowledge, skill, and attitude.

Course Content

Units	Hours		Course Content
	Theory	Practical	
I	10		Introduction: ❑ Education: Definition, aims, concepts, philosophies & their education implications, ❑ Impact of Social, economic, political & technological changes on education: • Professional education • Current trends and issues in education • Educational reforms and National Educational policy, various educational commissions-reports • Trends in development of nursing education in India
II	20	30	Teaching – Learning Process ❑ Concepts of teaching and learning: Definition, theories of teaching and learning, relationship between teaching and learning. ❑ Educational aims and objectives; types, domains, levels, elements and writing of educational objectives ❑ Competency based education (CBE) and outcome-based education (OBE) ❑ Instructional design: Planning and designing the lesson, writing lesson plan: meaning, its need and importance, formats. ❑ Instruction strategies – Lecture, discussion, demonstration, simulation, laboratory, seminar, panel, symposium, problem solving, problem-based learning (PBL), workshop, project, role-play (socio-drama), clinical teaching methods, programmed instruction, self-directed learning (SDL), micro teaching, computer assisted instruction (CAI), computer assisted learning (CAL)
III	10	10	Instructional media and methods ❑ Key concepts in the selection and use of media in education ❑ Developing learning resource material using different media ❑ Instructional aids – types, uses, selection, preparation, utilization. ❑ Teacher's role in procuring and managing instructional Aids – Project and non-projected aids, multimedia, video-tele conferencing etc

IV	10		Measurement and evaluation: ❑ Concept and nature of measurement and evaluation, meaning, process, purposes, problems in evaluation and measurement. ❑ Principles of assessment, formative and summative assessment- internal assessment external examination, advantages and disadvantages. ❑ Criterion and norm referenced evaluation,
V	12	10	Standardized and non-standardized tests: ❑ Meaning, characteristics, objectivity, validity, reliability, usability, norms, construction of tests- • Essay, short answer questions and multiple-choice questions. • Rating scales, checklist, OSCE/OSPE (Objective structured clinical/practical examination) • Differential scales, and summated scales, sociometry, anecdotal record, attitude scale, critical incident technique ❑ Question bank-preparation, validation, moderation by panel, utilization ❑ Developing a system for maintaining Confidentiality
VI	8	5	Administration, Scoring and Reporting ❑ Administering a test; scoring, grading versus marks ❑ Objective tests, scoring essay test, methods of scoring, Item analysis.
VII	12	6	Standardized Tools ❑ Tests of intelligence aptitude, interest, personality, achievement, socio-economic status scale, tests for special mental and physical abilities and disabilities.
VIII	5	6	Nursing Educational programs ❑ Perspectives of nursing education: Global and national. ❑ Patterns of nursing education and training programmes in India. Non-university and University programs: ANM, GNM, Basic B.Sc. Nursing, Post Certificate B.Sc. Nursing, M.Sc(N) programs, M.Phil and Ph.D) in Nursing, post basic diploma programs, nurse practitioner

			programs.
IX	12	25	Continuing Education in Nursing ❑ Concepts – Definition, importance, need scope, principles of adult learning, assessments of learning needs, priorities, resources. ❑ Program planning, implementation and evaluation of continuing education programs. ❑ Research in continuing education. ❑ Distance education in nursing.
X	10	10	Curriculum Development ❑ Definition, curriculum determinants, process and steps of curriculum development, Curriculum models, Types and framework. ❑ Formulation of philosophy, objectives, selection and organization of learning experiences; master plan, course plan, unit plan. ❑ Evaluation strategies, process of curriculum change, role of students, faculty, administrators, statutory bodies and other stakeholders. ❑ Equivalency of courses: Transcripts, credit system.
XI	8	4	Teacher preparation ❑ Teacher – roles & responsibilities, functions, characteristics, competencies, qualities, ❑ Preparation of professional teacher ❑ Organizing professional aspects of teacher preparation programs ❑ Evaluation: self and peer ❑ Critical analysis of various programs of teacher education in India.
XII	10	5	Guidance and counseling ❑ Concept, principles, need, difference between guidance and counseling, trends and issues. ❑ Guidance and counseling services: diagnostic and remedial. ❑ Coordination and organization of services. ❑ Techniques of counseling: Interview, casework, characteristics of counselor, problems in counseling. ❑ Professional preparation and training for counseling.

XIII	15	10	Administration of Nursing Curriculum ❑ Role of curriculum coordinator – planning, implementation and evaluation. ❑ Evaluation of educational programs in nursing-course and program. ❑ Factors influencing faculty staff relationship and techniques of working together. ❑ Concept of faculty supervisor (dual) position. ❑ Curriculum research in nursing. ❑ Different models of collaboration between education and service
XIV	10		Management of nursing educational institutions ❑ Planning, organizing, staffing, budgeting, recruitment, discipline, public relation, performance appraisal, welfare services, library services, hostel,
XV	5	5	❑ Development and maintenance of standards and accreditation in nursing education programs. ❑ Role of Indian Nursing Council, State Registration Nursing Councils, Boards and University. ❑ Role of Professional associations and unions.

Course Outcomes (Cos)

CO1	Remember is remembering, recognizing and recalling important concepts. It includes factual information with right and wrong answers.
CO2	Understand is the thought processes of interpreting, exemplifying, classifying, summarizing, inferring, comparing, and explaining of interpreting, translating from one medium to another and describing in one's own words.
CO3	Apply the various aspects of curriculum development,
CO4	Analyze the standardized tools
CO5	Develop curriculum for various nursing programmes
CO6	Create the new teaching learning strategies

Mapping/ Alignment of COs with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	2	1		2			2	2			2	1	2
CO2						1					1	1	2		2
CO3				1			2			1					2
CO4	2		3			1			1		1		1	2	2
CO5	1		1		3		1	2		2		2			
CO6		2	2	2	2		3	2		2		2	2	2	2

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

Activities:

- Framing philosophy, aims and objectives.
- Lesson Planning.
- Microteaching-2.
- Conduct practice teachings using different teaching strategies -10 (like lecture cum discussion, demonstration- lab method, field trips, seminars, project, role play, panel discussion, clinical method etc)
- Preparation and utilization of instructional Aids using different media.
- Develop course plans, unit plans, rotation plans.
- a continuing education workshops.
- Annotated bibliography.
- Critical evaluation of any nursing education program offered by a selected institution.
- Planning and Organizing field visits
- Educational visits.
- Field visits (INC/SNRC) to get familiar with recognition/registration process.
- Construct, administer and evaluate tools (objective & essay type test, observation checklist, rating scale etc.)
- Observe and practice application of various non-standardized tests (intelligence, Aptitude, Personality, Sociometry, physical & mental disability tests.)

Methods of Teaching

- Lecture cum discussion
- Demonstration/ Return demonstration
- Seminar / Presentations
- Project work
- Field visits
- Workshop

Methods of evaluation

- Tests
- Presentation
- Projectwork
- Written assignments

Internal Assessment

Techniques	Weightage
Test- (2 tests)	50
Assignment	25
Seminar/presentation	25
	100
Practical – Internal assessment	
Learning resource material	25
Practice Teaching	50
Conduct Workshop /Short Term Course	25
Practical – external assessment	
Practice teaching- 1-	50
Preparation/use of learning resource material-1	25
Construction of tests/rotation plan.	25

(19ANPo2) ADVANCE NURSING PRACTICE

PLACEMENT-IYEAR

Hours of instruction	
Theory:150hours	Credit:7.5
Practical:200hours	Credit:10

Course Description

The course is designed to develop an understanding of concepts and constructs of theoretical basis of advance nursing practice and critically analyze different theories of nursing and other disciplines.

Objectives:

At the end of the course the students will be able to:

1. Appreciate and analyze the development of nursing as a profession.
2. Describe ethical, legal, political and economic aspects of health care delivery and nursing practice.
3. Explain bio- psycho- social dynamics of health, life style and health care delivery system.
4. Discuss concepts, principles, theories, models, approaches relevant to nursing and their application.
5. Describe scope of nursing practice.
6. Provide holistic and competent nursing care following nursing process approach.
7. Identify latest trends in nursing and the basis of advance nursing practice.
8. Perform extended and expanded role of nurse.
9. Describe alternative modalities of nursing care.
10. Describe the concept of quality control in nursing.
11. Identify the scope of nursing research.
12. Use computer in patient care delivery system and nursing practice.
13. Appreciate importance of self-development and professional advancement.

Unit	Hours	Content
I	10	Nursing as a Profession ❑ History of development of nursing profession ,characteristics, criteria of the profession, perspective of nursing profession- national ,global ❑ Code of ethics (INC), code of professional conduct (INC), autonomy and accountability, assertiveness, visibility of nurses, legal considerations, ❑ Role of regulatory bodies ❑ Professional organizations and unions-self-defense, individual and collective bargaining ❑ Educational preparations, continuing education, career opportunities, professional advancement & role and scope of nursing education. ❑ Role of research, leadership and management. ❑ Quality assurance in nursing(INC). ❑ Futuristic nursing.
II	5	Health care delivery ❑ Health care environment, economics, constraints, planning process, policies, political process vis a vis nursing profession. ❑ Health care delivery system- national, state, district and local level. ❑ Major stakeholders in the health care system-Government, non-govt, Industry and other professionals. ❑ Patterns of nursing care delivery in India. ❑ Health care delivery concerns, national health and family welfare programs, inter-sectoral coordination, role of non-government alagencies. ❑ Information, education and communication(IEC). ❑ Tele-medicine.
III	10	Genetics ❑ Review of cellular division, mutation and law of inheritance, human genome project, The Genomicera. ❑ Basic concepts of Genes, Chromosomes &DNA. ❑ Approaches to common genetic disorders. ❑ Genetic testing – basis of genetic diagnosis, Pre symptomatic and predisposition testing, Prenatal diagnosis & screening, Ethical, legal & psycho social issues in genetic testing. ❑ Genetic counseling. ❑ Practical application of genetics in nursing.

IV	10	Epidemiology ❑ Scope, epidemiological approach and methods, ❑ Morbidity ,mortality, ❑ Concepts of causation of diseases and their screening, ❑ Application of epidemiology in health care delivery, Health surveillance and health informatics ❑ Role of nurse
V	20	Bio-Psycho social pathology ❑ Pathophysiology and Psychodynamics of disease causation ❑ Life processes, homeostatic mechanism, biological and psycho-social dynamics in causation of disease ,lifestyle ❑ Common problems: Oxygen insufficiency, fluid and electrolyte imbalance, nutritional problems ,hemorrhage and shock, altered body temperature, unconsciousness, sleep pattern and its disturbances, pain, sensory deprivation. ❑ Treatment aspects: pharmacological and pre- post-operative careaspects, ❑ Cardio pulmonary resuscitation. ❑ End of life Care ❑ Infection prevention (including HIV) and standard safety measures, bio-medical waste management. ❑ Role of nurse- Evidence based nursing practice; Best practices ❑ Innovations in nursing
VI	20	Philosophy and Theories of Nursing ❑ Values, Conceptual models,approaches. ❑ Nursing theories: Nightingale's, Hendersons's, Roger's, Peplau's, Abdella's, Lewine's, Orem's, Johnson's, King's, Neuman's, Roy's, Watson parsee, etc and theirapplications, ❑ Health belief models, communication and management,etc ❑ Concept of Selfhealth. ❑ Evidence based practicemodel.
VIII	10	Nursing process approach ❑ Health Assessment- illness status of patients/clients (Individuals, family, community), Identification of health-illness problems, health behaviors, signs and symptoms of clients. ❑ Methodsofcollection,analysisandutilizationofdatarelevant to nursingprocess. ❑ Formulation of nursing care plans, healthgoals, implementation, modification and evaluation of care.

IX	30	Psychological aspects and Human relations ❑ Human behavior, Life processes & growth and development, personality development, defense mechanisms, ❑ Communication, interpersonal relationships, individual and group, group dynamics, and organizational behavior, ❑ Basic human needs, Growth and development, (Conception through preschool, School age through adolescence, Young & middle adult, and Older adult) ❑ Sexuality and sexual health. ❑ Stress and adaptation, crisis and its intervention, ❑ Coping with loss, death and grieving, ❑ Principles and techniques of Counseling.
X	10	Nursing practice ❑ Framework, scope and trends. ❑ Alternative modalities of care, alternative systems of health and complementary therapies. ❑ Extended and expanded role of the nurse, in promotive, preventive, curative and restorative health care delivery system in community. ❑ Immunity and institutions. ❑ Health promotion and primary healthcare. ❑ Independent practice issues, - Independent nurse-midwifery practitioner. ❑ Collaboration issues and models-within and outside nursing. ❑ Models of Prevention, ❑ Family nursing, Home nursing, ❑ Gender sensitive issues and women empowerment. ❑ Disaster nursing. Geriatric considerations in nursing. ❑ Evidence based nursing practice- Best practices ❑ Trans-cultural nursing.
XI	25	Computer applications for patient care delivery system and nursing practice ❑ Use of computers in teaching, learning, research and nursing practice. ❑ Windows, MS Office: Word, Excel, PowerPoint, ❑ Internet, literature search, ❑ Statistical packages, ❑ Hospital management information system: software's.

Course outcomes (Cos)

CO1	Appreciate and analyze the development of nursing as a profession
CO2	Describe ethical, legal, political and economic aspects of health care delivery and nursing practice.
CO3	Explain bio-psycho-social dynamics of health, lifestyle and health care delivery System
CO4	Discuss concepts, principles, theories, models, approaches relevant to nursing and their application
CO5	Describe scope of nursing practice.
CO6	Provide holistic and competent nursing care following nursing process approach

Mapping/ Alignment of Cos with PO & PSO

	PO1	PO 2	PO 3	PO 4	PO5	PO 6	PO7	PO 8	PO9	PO1 0	PO11	PO12	PSO1	PSO 2	PSO 3
CO1		2	2	2	3	3		2	2	2	2		2		2
CO2		2	2	1				1		2			2		2
CO3	1				2	2				2	1		2		2
CO4	2						2			2	1		2	2	2
CO5	2	2	2	1	2	2						2			2
CO6	2	2	2	1	2				2	2	2	2			2

Practical

Clinical posting in the following areas:

Specialty area- in-patient unit - 2 weeks

- 2 weeks

Community health center/PHC

- 2 weeks

Emergency/ICU

Activities

or level of correlation: 3-High, 2-Medium, 1-Low Prepare Case studies with nursing process approach and theoretical basis

- Presentation of comparative picture of theories
- Family case- work using model of prevention
- Annotated bibliography
- Report of field visits (5)

Methods of Teaching

- Lecture cum discussion
- Seminar
- Panel discussion
- Debate
- Case Presentations
- Exposure to scientific conferences
- Field visits

Methods of evaluation:

- Tests
- Presentation
- Seminar
- Written assignments

Advance nursing Procedures

Definition, Indication and nursing implications; CPR, TPN, Hemodynamic monitoring, Endotracheal intubation, Tracheostoma, mechanical ventilation, Pacemaker, Hemodialysis, Peritoneal dialysis, LP, BT Pleural and abdominal paracentesis OT techniques, Health assessment, Triage, Pulse oximetry.

Internal Assessment

Techniques

Weightage

Test- (2 tests)

50

Assignment

25

Seminar/presentation

25

100

(19NRS03)- NURSING RESEARCH AND STATISTICS

PLACEMENT-IYEAR

**Theory:150hours
Practical:100hours**

**Credit:7.5
Credit:5**

Course Description

PART – A- NURSING RESEARCH

Theory:100hours

**Credit:5 Practical:50hours
Credit:2.5**

The course is designed to assist the students to acquire an understanding of the research methodology and statistical methods as a basis for identifying research problem, planning and implementing a research plan. It will further enable the students to evaluate research studies and utilize research findings to improve quality of nursing practice, education and management

General Objectives:

At the end of the course, the students will be able to:

1. Define basic research terms and concepts.
2. Review literature utilizing various sources
3. Describe research methodology
4. Develop a research proposal.
5. Conduct a research study.
6. Communicate research findings
7. Utilize research findings
8. Critically evaluate nursing research studies.
9. Write scientific paper for publication.

Content Outline

Unit	Hours		Course Content
	Theory	Practical	
I	10		Introduction: ❑ Methods of acquiring knowledge – problem solving and scientific method. ❑ Research – Definition, characteristics, purposes, kinds of research ❑ Historical Evolution of research in nursing ❑ Basic research terms ❑ Scope of nursing research: areas, problems in nursing, health and social research ❑ Concept of evidence-based practice ❑ Ethics in research ❑ Overview of Research process
II	5	5	Review of Literature ❑ Importance, purposes, sources, criteria for selection of resources and steps in reviewing literature.
III	12		Research Approaches and designs ❑ Type: Quantitative and Qualitative ❑ Historical, survey and experimental – Characteristics, types advantages and disadvantages ❑ Qualitative: Phenomenology, grounded theory, ethnography
IV	10	5	Research problem: ❑ Identification of research problem ❑ Formulation of problem statement and research objectives ❑ Definition of terms ❑ Assumptions and delimitations ❑ Identification of variables ❑ Hypothesis – definition, formulation and types.
V	5	5	Developing theoretical/conceptual framework. ❑ Theories: Nature, characteristics, Purpose and uses ❑ Using, testing and developing conceptual framework, models and theories.

VI	6		Sampling ❑ Population and sample ❑ Factors influencing sampling ❑ Sampling techniques ❑ Sample size ❑ Probability and sampling error ❑ Problems of sampling
VII	20	10	Tools and methods of Data collection: ❑ Concepts of data collection ❑ Data sources, methods/techniques quantitative and qualitative. ❑ Tools for data collection – types, characteristics and their development ❑ Validity and reliability of tools ❑ Procedure for data collection
VIII	5		Implementing research plan ❑ Pilot Study, review research plan (design)., planning for data collection, administration of tool/interventions, collection of data
IX	10	10	Analysis and interpretation of data ❑ Plan for data analysis: quantitative and qualitative ❑ Preparing data for computer analysis and presentation. ❑ Statistical analysis ❑ Interpretation of data ❑ Conclusion and generalizations ❑ Summary and discussion
X	10		Reporting and utilizing research findings: ❑ Communication of research results; oral and written ❑ Writing research report purposes, methods and style- Vancouver, American Psychological Association (APA), Campbell etc ❑ Writing scientific articles for publication: purposes & Style
XI	3	8	Critical analysis of research reports and articles
XII	4	7	Developing and presenting a research proposal

Course Outcomes(Cos)

CO1	Remember the research process and significance of statistics
CO2	Understand the research problem and objectives and sampling methods
CO3	Apply or implement the nursing intervention to collect the data
CO4	Analyse and interpret the data using descriptive and inferential statistics
CO5	Develop and evaluate research proposal and prepare the data tabulation.
CO6	Create and conduct a group/individual research project and communicate the research findings.

Mapping/ Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	2	2	1		2			2	2	2		2	1	2
CO2		2	2			1					2	1	2		2
CO3		3		1			2			1	2		2		2
CO4	2					1			1		1		2	2	2
CO5	1	2	2	2	2		2	2		2		2			
CO6		2	2	2	2		2	2		2		2	2	2	2

(Tickmark or level of correlation: 3-High, 2-Medium, 1-Low)

Activities:

- Annotated Bibliography of research reports and articles.
- Review of literature of selected topic and reporting
- Formulation of problem statement, objective and hypothesis
- Developing theoretical/conceptual framework.
- Preparation of a sample research tool
- Analysis and interpretation of given data
- Developing and presenting research proposal
- Journal club presentation
- Critical evaluation of selected research studies
- Writing a scientific paper

Method of Teaching

- Lecture-cum-discussion
- Seminar/Presentations
- Project
- Class room exercises
- Journal club

Methods of Evaluation

- Quiz, Tests(Term)
- Assignments/Term paper
- Presentations
- Project work

Internal Assessment

Techniques	Weightage (15marks)
Term Test (2 tests)	40%
Assignment	20%
Presentation	20%
Project work	20%
Total	100%

PART – B- STATISTICS

Theory :50 hours Credit:2.5

Practical :50 hours Credit:2.5

Course Description

At the end of the course, the students will be able to develop an understanding of the statistical methods and apply them in conducting research studies in nursing.

General Objectives

At the end of the course the students will be able to:

1. Explain the basic concepts related to statistics
2. Describe the scope of statistics in health and nursing
3. Organize, tabulate and present data meaningfully.
4. Use descriptive and inferential statistics to predict results.
5. Draw conclusions of the study and predict statistical significance of the results.
6. Describe vital health statistics and their use in health-related research.
7. Use statistical packages for data analysis

Unit	Hours		Course Content
	Theory	Practical	
I	7	4	Introduction: □ Concepts, types, significance and scope of statistics, meaning of data, □ sample, parameter □ type and levels of data and their measurement □ Organization and presentation of data – Tabulation of data; □ Frequency distribution □ Graphical and tabular presentations.
II	4	4	Measures of central tendency: □ Mean, Median, Mode
III	4	5	Measures of variability; □ Range, Percentiles, average deviation, quartile

			deviation, standard deviation
IV	3	2	Normal Distribution: ☐ Probability, characteristics and application of normal probability curve; sampling error.
V	6	8	Measures of relationship: ☐ Correlation – need and meaning ☐ Rank order correlation; ☐ Scatter diagram method ☐ Product moment correlation ☐ Simple linear regression analysis and prediction.
VI	5	2	Designs and meaning: ☐ Experimental designs ☐ Comparison in pairs, randomized block design, Latin squares.
VII	8	10	Significance of Statistic and Significance of difference between two Statistics (Testing hypothesis) ☐ Non parametric test – Chi-square test, Sign, median test, Mann Whitney test. ☐ Parametric test – ‘t’ test, ANOVA, MANOVA, ANCOVA
VIII	5	5	Use of statistical methods in psychology and education: ☐ Scaling – Z Score, Z Scaling ☐ Standard Score and T Score ☐ Reliability of test Scores: test-retest method, parallel forms, split half method.
IX	4	2	Application of statistics in health: ☐ Ratios, Rates, Trends ☐ Vital health statistics – Birth and death rates. ☐ Measures related to fertility, morbidity and mortality
X	4	8	Use of Computers for data analysis ☐ Use of statistical package.

Activities

- Exercises on organization and tabulation of data,
 - Graphical and tabular presentation of data
- Calculation of descriptive and inferential statistics (chi square, t-test, correlation)
 - Practice in using statistical package
 - Computing vital health statistics

Methods of Teaching:

- Lecture-cum-discussion
- Demonstration – on data organization, tabulation, calculation of statistics, use of statistical package, Classroom exercises, organization and tabulation of data,
- Computing Descriptive and inferential statistics; vital and health statistics and use of computer for data entry and analysis using statistical package.

Methods of Evaluation

- Test, Classroom statistical exercises.

Internal Assessment

Techniques

Weightage 10 marks

Test – (2 tests)

100%

(19COHN04) CLINICAL SPECIALITY-I

COMMUNITY HEALTH NURSING - I

PLACEMENT-I YEAR

Hours of instruction

Theory: 150 hours Credit: 7.5

Practical: 650 hours Credit: 32.5

Course Description

The course is designed to assist students in developing expertise and in-depth understanding in the field of Community Health Nursing. It would help students to appreciate holistic lifestyle of individuals, families & groups and develop skills to function as Community Health Nurses specialist/practitioner. It would further enable student to function as an educator, manager and researcher in the field of Community Health nursing.

Objectives

At the end of the course, the student will be able to:

1. Appreciate the history and development in the field of Community Health and Community Health Nursing.
2. Appreciate role of individuals and families in promoting health of the Community.
3. Perform physical, developmental and nutritional assessment of individuals, families and groups.
4. Apply the concepts of promotive, preventive, curative and rehabilitative aspects of health while providing care to the people.
5. Apply nursing process approach while providing care to individuals, families, groups and community.
6. Integrate the concepts of family centered nursing approach while providing care to the community.
7. Apply recent technologies and care modalities while delivering community health nursing care.
8. Appreciate legal and ethical issues pertaining to community health nursing care.
9. Conduct community health nursing care projects.
10. Participate in planning, implementation and evaluation of various national health and family welfare programmes at local, state and the national level.
11. Incorporate evidence-based nursing practice and identify the areas of research in the community settings.

12. Participate effectively as a member of Community Health team.
13. Coordinate and collaborate with various agencies operating in the community by using inter-sectoral approach.
14. Teach community health nursing undergraduates, in-service nurses and the community health workers.
15. Demonstrate leadership and managerial abilities in community health nursing practice

Course Content

Unit	Hours	Content
I	10	Introduction ❑ Historical development of Community Health and Community health Nursing- World and India, various health and family welfare committees ❑ Current status, trends and challenges of Community Health Nursing ❑ Health status of the Community- community diagnosis ❑ Scope of Community health Nursing practice ❑ Ethical and legal issues ❑ Socio-cultural issues in Community health Nursing ❑ National Policies, plans and programmes • National health policy • National Population policy • National Health and welfare Programmes • National Health goals/indicators/Millennium developmental goals (MDG)/Strategies • Planning process: Five-year plans • National Rural Health Mission • Panchayatraj institutions
II	10	Health ❑ Concepts, issues ❑ Determinants ❑ Measurements ❑ Alternate systems for health promotion and management of health problems ❑ Health economics ❑ Health technology ❑ Genetics and health ❑ Waste disposal ❑ Ecosystem

III	15	Population dynamics and control ❑ Demography ❑ Transition and theories of population ❑ National population policy ❑ National population programmes ❑ Population control and related programmes ❑ Methods of family limiting and spacing ❑ Research, Census, National Family Health Survey
IV	30	Community health Nursing ❑ Philosophy, Aims, Objectives, Concepts, Scope, Principles, Functions ❑ Community health Nursing theories and models ❑ Quality assurance: Community health Nursing standards, competencies, Monitoring community health nursing, nursing audits ❑ Family nursing and Family centered nursing approach ❑ Family health nursing process ○ Family health assessment ○ Diagnosis ○ Planning ○ Intervention ○ Evaluation ❑ Nursing care for special groups: children, adolescents, adults, women, elderly, physically and mentally challenged- Urban and rural population at large ❑ Community nutrition ❑ Concept, role and responsibilities of community health Nurse practitioners/nurse midwifery practitioners-decision making skills, professionalism, legal issues
V	45	Maternal and neonatal care ❑ IMNCI (Integrated Management of Neonatal and Childhood Illnesses) module ❑ Skilled Birth Attendant (SBA) module
VI	15	❑ Disaster nursing (INC module on Reaching out: Nursing Care in emergencies)
VII	10	Information, education and communication ❑ IEC/BCC: Principles and strategies ❑ Communication Skills ❑ Management information and evaluation system: Records and reports ❑ Information technology ❑ Tele-medicine and tele-nursing ❑ Journalism

		☐ Mass media ☐ Folk media
VII I	15	Health care delivery system: Urban, rural, tribal and difficult areas ☐ Health organization: National, State, District, CHC, PHC, Sub Centre, Village - Functions, Staffing, pattern of assistance, layout, drugs, equipment and supplies, Roles and Responsibilities of DPHNO ☐ Critical review of functioning of various levels, evaluation studies, recommendations and nursing perspectives ☐ Alternative systems of medicine ☐ Training and supervision of health workers ☐ Health agencies: NGO's, Roles and functions ☐ Inter-sectoral coordination ☐ Public private partnership ☐ Challenges of health care delivery system

Course Outcomes (Cos)- Clinical Speciality-I (Community Health Nursing-I)

CO1	Appreciate the history and development in the field of Community Health and Community Health Nursing.
CO2	Appreciate the role of individuals and families in promoting health of the Community.
CO3	Perform physical, developmental and nutritional assessment of individuals, families and groups.
CO4	Apply the concepts of promotive, preventive, curative and rehabilitative aspects of health while providing care to the people.
CO5	Apply nursing process approach while providing care to individuals, families, groups and community.
CO6	Integrate the concepts of family centered nursing approach while providing care to the community.

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2				2	1		1	1	3	1	1		1	1
CO2						2						1		1	1
CO3	1	2	1			3		1	3	1	2	1		2	1
CO4	1	2	2			1	2	1	3	2	3	1			2
CO5										1					1
CO6	1	1	1		1	1	1	2		1	3	3	2	1	3

Mapping / Alignment of Cos with PO & PSO

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

PRACTICAL

Total=660Hours

1Week = 30Hours

S.No.	Depth./Unit	No.of Week	TotalHours
1	Sub-center,PHC,CHC	12	360Hours
2	District family welfare bureau	1	30Hours
3	Urban centers		180Hours
4	Field visits	3	90Hours
	Total	22Weeks	660Hours

Student Activities

- Identification of community leaders and resource persons (community mapping)
- Community health survey
- Community health nursing process- individual, family and special groups and community
- Counseling
- Health education – campaign, exhibition, folk media, preparation of IEC materials

- Organizing and participating in special clinics/camps and national health and welfare programmes-Organise at least one health and family welfare mela/fair (all stalls of national health and family welfare activities should be included)
- Estimation of Vital health statistics-Exercise
- Drill for disaster preparedness
- Organize at least one in-service education to ANM's/LHV/PHN/HW

ELECTIVE COURSE

(19ECDMo1) – DISASTER MANAGEMENT

Introduction

This course is designed to help the students acquire knowledge, develop attitude and beginning skills in the administration during disaster. This skill development course is designed to prepare participants to react during disaster situation.

Course Objective

As a result of taking this class, students are expected to be able to

1. Understand the various preparedness .
2. To assess the knowledge and practice during various disaster situation
3. To enable the disaster management

Unit	Learning Objective	Content	Hrs
I	Explain the Disaster Different Types of Disaster	Introduction on Disaster Different Types of Disaster : A) Natural Disaster: such as Flood, Cyclone, Earthquakes, Landslides etc B) Man-made Disaster: such as Fire, Industrial Pollution, Nuclear Disaster, Biological Disasters, Accidents (Air, Sea, Rail & Road), Structural failures (Building and Bridge), War & Terrorism etc. Causes, effects and practical examples for all disasters.	T (10) P (5)
II	Describe the risk, and Vulnerability	Risk and Vulnerability Analysis 1. Risk : Its concept and analysis 2. Risk Reduction 3. Vulnerability : Its concept and analysis 4. Strategic Development for Vulnerability Reduction	T (10) P (3)

III	Describe about the disaster Preparedness and Response	Disaster Preparedness and Response Preparedness1. Disaster Preparedness: Concept and Nature 2. Disaster Preparedness Plan 3. Prediction, Early Warnings and Safety Measures of Disaster. 4. Role of Information, Education, Communication, and Training,	T (10) P (2)

Teaching- Learning Strategies

- 1) Lecture cum Discussion
- 2) Seminar
- 3) Lab – Drill
- 4) Demonstration
- 5) Assignments

Assessment Techniques of each topic of the course

S.No	Topic	Assessment Techniques
1.	Different Types of Disaster	Short answer
2.	Strategic Development for Vulnerability Reduction	Short answers, Descriptive type.
3.	Disaster Preparedness and Response	Descriptive type, Health Education Return demonstration

(19ECPR02) – PUBLIC RELATION

Introduction

This course is ideal for those students who have logical thinking including implementing logic and common sense to recognize the advantages and disadvantages of possible ideas, assumptions or solutions of numerous problems. Public Relations strengths which have been engendered in candidates during the course time include public speaking, preparing speeches and scripts, recognizing the mindset of the listener, promoting valuable knowledge and trying to simplify technical aspects.

Course Objective

As a result of taking this class, students are expected to be able to

- ✓ To sensitize students on various gender/ social communication issues in the light of concepts.
- ✓ To provide hands-on training on planning and production of brand and social campaigns.
- ✓ To provide skills on various relevant software especially in media planning and production of campaigns

Unit	Learning Objective	Content	Hrs
I	Explain the Communication and Journalism	Communication and Journalism Basic terms, Concepts and definition, Nature and Process. Types of Communication. Mass Communication – Nature of Media and Content. Mass Communication in India – Reach, access and Nature of Audience	T (10) P (5)
II	Describe the Role of Media in Society	Role of Media in Society. Characteristics of Indian Society – Demographic and Sociological impact of media in general. Impact of media on specific audiences – Women, children, etc. Mass media effects studies and their limitations. Mass campaigns for specific issues – Social concerns, environment, human rights, gender equality. The press, radio, television, cinema and traditional form of communication. Print, electronics journalism – Demand, Challenges and responsibility Public Relations, Advertising, Cinema – Contemporary analysis	T (10) P (3)
III	Describe the extension roles	Problems and prospects. Press Commission, Press Councils – Their recommendations and status. Development of Radio after independence – Extension role, radio rural forums and local broadcasting General and specific audience	T (10) P (2)

		programs. Cinema – Historical overview and contemporary analysis – Commercial, parallel and documentary genres – Problems and prospects for the film industry. Social Media – Account Management and Maintenance Mobile Applications – as a tool communication New trends in Audio visual production FM, Community, Web, Digital and other forms of Radio.	

Teaching- Learning Strategies

1. Lecture cum Discussion
2. Seminar
3. Lab – role play
4. Demonstration
5. Assignments

Assessment Techniques of each topic of the course

S.No	Topic	Assessment Techniques
1.	Communication and Journalism	Short answer
2.	Role of Media in Society	Short answers, Descriptive type.
3.	Extension roles	Subjective type.

(19ECHT 03) – HEALTH TECHNOLOGY

Introduction

This course introduces the student to the technology used in healthcare for administrative, clinical, and facility needs. Support systems for healthcare are also discussed. This is an overview to become familiar with the breadth and scope of technology in healthcare and its impact on patients, providers, and payers

Course Objective

As a result of taking this class, students are expected to be able to

1. To Improve economies of scale,
2. To upgrade technical efficiencies in the delivery of care,
3. To inculcate advanced tools for patient education and self-care,
4. To provide network-integrated decision support tools for nurses
5. To provide opportunities for e-health delivery over the internet.

Unit	Learning Objective	Content	Hrs
I	Explain the Introduction about health technology	▪ Introduction about health technology Definition of Health, Technology, Health technology, Purposes of health technology. Areas of health technology: Blood transfusion safety, Diagnostic Imaging, Laboratory services, Transplantation, Medical devices and equipment	T (10) P (5)
II	Describe the Basic HTA orientations	▪ Basic HTA orientations Technology oriented assessment, Problem oriented assessments, Project oriented assessment, Steps of HTA, Purposes of HTA, HTA assessment program, Expertise for conducting HTA, Health technologies and decision making	T (10) P (3)
III	Describe Global perspective on health informatics	Global perspective on health informatics Medical information systems: A foundation for healthcare technologies in developing countries, Core values and competencies, careers are open to health informatics	T (10) P (2)

Teaching- Learning Strategies

- 1.Lecture cum Discussion
- 2.Seminar
- 3.Demonstration
- 4.Assignments

Assessment Techniques of each topic of the course

S.No	Topic	Assessment Techniques
1.	Introduction about health technology	Short answer
2.	Basic HTA orientations	Short answers, Descriptive type.
3.	Global perspective on health informatics	Descriptive type, Health Education Simulation.

(19ECHS 04) – HEALTH STATISTICS

Introduction

The course is an elective method course within the Master of Science programme in Integrative Health Science and is also offered as a freestanding course.

Course Objective

As a result of taking this class, students are expected to be able

1. To define an issue suitable for research in the health sciences
2. To describe data statistically
3. To formulate, execute and present testing of hypotheses and draw conclusions with regard to the formulated problem
4. To conduct and present correlation and regression analyses

Unit	Learning Objective	Content	Hrs
I	Explain the introduction to vital and health statistics	❖ INTRODUCTION TO VITAL AND HEALTH STATISTICS Introduction, Objectives of vital and health statistics, Requirements to be vital statistics, Purposes of vital and health statistics, Uses of vital and health statistics, Importance of health statistics	T (10) P (5)
II	Describe the sources of vital information	❖ SOURCES OF VITAL INFORMATION Census surveillance, Registration of vital events, Simple registration system record, Hospital records, Notification of health disease, Disease register, Health surveys, Population and surveys	T (10) P (3)
III	Describe the important vital statistics	❖ IMPORTANT VITAL STATISTICS Crude birth rate, Crude death rate, Fertility rate, Infant mortality & morbidity rate, Neonatal mortality rate, 1-4 year child mortality, morbidity rate, Under 5 yr. mortality, morbidity rate, General fertility rate, Maternal mortality rate, Maternal morbidity rate, Perinatal mortality, morbidity rate, Post neonatal mortality, morbidity rate, Life expectancy	T (10) P (2)

Teaching- Learning Strategies

1. Lecture cum Discussion
2. Seminar
3. Assignments

Assessment Techniques of each topic of the course

S.No	Topic	Assessment Techniques
1.	Introduction to vital and health statistics	Short answer.
2.	Sources of vital information	Short answers, Descriptive type.
3.	Important vital statistics	Descriptive type, Health Education.

(19ECIECo5) – IEC

Introduction

The programme for students aims to enable them to creatively interact with a wide variety of hardware, software applications, devices and tools, nurturing their inquisitiveness and imagination, enabling them to access a wide variety of information and resources and helping them to solve problems.

Course Objective

As a result of taking this class, students are expected to be able to

- ✓ Develop digital literacy skills that will enable them to function as discerning students in an increasingly digital society
- ✓ Access various tools and applications for learning and skill development opportunities
- ✓ Operate a variety of hardware and software independently and troubleshoot common problems and using the IEC facility with care, ensuring the safety of themselves, others and the equipment
- ✓ Creating a variety of digital products using appropriate tools and applications and saving, storing and managing digital resources
- ✓ Practice safe, legal and ethical means of using IEC

Unit	Learning Objective	Content	Hrs
I	Explain the information, education, communication	INFORMATION, EDUCATION, COMMUNICATION Health behavior, Factors influencing health behavior, Models of health and prevention, Health promotion strategies, Health information, Health information sources, Information and its importance, Health information management strategies, Preservation of health information, Application and utilization of health information	T (10) P (5)
II	Describe the Health Education	HEALTH EDUCATION Meaning, concept, definitions of health education, Alma atta declaration, Aims of health education, Objectives and principles of health education, Scope / importance of health behavioral education, Planning of health education, Steps in planning health education, Health education in levels involving individuals, group and communities, Planning community messages	T (10) P (3)
III	Describe the communication	COMMUNICATION Introduction to communication, Concept involved in communication, Meaning and definition of effective communication, Types of communication, Channels of communicating information, Communication cycle, Effective means of communication, Principle involved in a communication process, Barriers in communication	T (10) P (2)

Teaching- Learning Strategies

1. Lecture cum Discussion
2. Seminar
3. Demonstration
4. Assignments

Assessment Techniques of each topic of the course

S.No	Topic	Assessment Techniques
1.	Information, education, communication	Short answer
2.	Health Education	Short answers, Descriptive type
3.	Communication	Descriptive type, Health Education Return demonstration

(19NM05)- NURSING MANAGEMENT

PLACEMENT-IIYEAR

Hours of instruction	
Theory:150hours	Credit:7.5
Practical:150hours	Credit:7.5

Course Description

This course is designed to assist students to develop a broad understanding of Principles, concepts, trends and issues related to nursing management. Further, it would provide opportunity to students to understand, appreciate and acquire skills in planning, supervision and management of nursing service at different levels to provide quality nursing services.

Objectives

At the end of the course, students will be able to:

1. Describe the philosophy and objectives of the health care institutions at various levels.
2. Identify trends and issues in nursing
3. Discuss the public administration, health care administration vis a vis nursing administration
4. Describe the principles of administration applied to nursing
5. Explain the organization of health and nursing services at the various levels/institutions.
6. Collaborate and co-ordinate with various agencies by using multi-sectoral approach
7. Discuss the planning, supervision and management of nursing workforce for various health care settings.
8. Discuss various collaborative models between nursing education and nursing service to improve the quality of nursing care
9. Identify and analyze legal and ethical issues in nursing administration
10. Describe the process of quality assurance in nursing services.
11. Demonstrate leadership in nursing at various levels

Course Content

Unit	Hours	Content
I	10	Introduction ❑ Philosophy, purpose, elements, principles and scope of administration ❑ Indian Constitution, Indian Administrative system vis a vis health care delivery system: National, State and Local ❑ Organization and functions of nursing services and education at National, State, District and institutions: Hospital and Community ❑ Planning process: Five-year plans, Various Committee Reports on health, State and National Health policies, national population policy, national policy on AYUSH and plans,
II	10	Management ❑ Functions of administration ❑ Planning and control ❑ Co-ordination and delegation ❑ Decision making – decentralization basic goals of decentralization. ❑ Concept of management Nursing management ❑ Concept, types, principles and techniques ❑ Vision and Mission Statements ❑ Philosophy, aims and objective ❑ Current trends and issues in Nursing Administration ❑ Theories and models Application to nursing service and education
III	15	Planning ❑ Planning process: Concept, Principles, Institutional policies ❑ Mission, philosophy, objectives, ❑ Strategic planning ❑ Operational plans ❑ Management plans ❑ Programme evaluation and review technique (PERT), Gantt chart, Management by objectives (MBO) ❑ Planning new venture ❑ Planning for change ❑ Innovations in nursing Application to nursing service and education

IV	15	Organization ❑ Concept, principles, objectives, Types and theories, Minimum requirements for organization, Developing an organizational Structure, levels, organizational Effectiveness and organizational Climate, ❑ Organizing nursing services and patient care: Methods of patient assignment- Advantages and disadvantages, primary nursing care, ❑ Planning and Organizing: hospital, unit and ancillary services (specifically central sterile supply department, laundry, kitchen, laboratory services, emergency etc) ❑ Disaster management: plan, resources, drill, etc Application to nursing service and education
V	15	Human Resource for health ❑ Staffing • Philosophy • Norms: Staff inspection unit (SIU), Bajaj Committee, High power committee, Indian nursing council (INC) • Estimation of nursing staff requirement- activity analysis • Various research studies ❑ Recruitment: credentialing, selection, placement, promotion ❑ Retention ❑ Personnel policies ❑ Termination ❑ Staff development programme ❑ Duties and responsibilities of various category of nursing personnel Applications to nursing service and education
VI	15	Directing ❑ Roles and functions ❑ Motivation: Intrinsic, extrinsic, Creating motivating climate, Motivational theories ❑ Communication: process, types, strategies, Interpersonal communication, channels, barriers, problems, Confidentiality, Public relations ❑ Delegation; common delegation errors ❑ Managing conflict: process, management, negotiation, consensus ❑ Collective bargaining: health care labour laws, unions,

		professional associations, role of nurse manager ❑ Occupational health and safety Application to nursing service and education
VII	10	Material management ❑ Concepts, principles and procedures ❑ Planning and procurement procedures: Specifications ❑ ABC analysis, ❑ VED (very important and essential daily use) analysis ❑ Planning equipments and supplies for nursing care: unit and hospital ❑ Inventory control ❑ Condemnation Application to nursing service and education
VIII	15	Controlling ❑ Quality assurance – Continuous Quality Improvement • Standards • Models • Nursing audit ❑ Performance appraisal: Tools, confidential reports, formats, Management, interviews ❑ Supervision and management: concepts and principles ❑ Discipline: service rules, self-discipline, constructive versus destructive discipline, problem employees, disciplinary proceedings- enquiry etc ❑ Self-evaluation or peer evaluation, patient satisfaction, utilization review Application to nursing service and education
IX	15	Fiscal planning ❑ Steps ❑ Plan and non-plan, zero budgeting, mid-term appraisal, capital and revenue ❑ Budget estimate, revised estimate, performance budget ❑ Audit ❑ Cost effectiveness ❑ Cost accounting ❑ Critical pathways ❑ Health care reforms ❑ Health economics ❑ Health insurance ❑ Budgeting for various units and levels Application to nursing service and education

X	10	Nursing informatics ❑ Trends ❑ General purpose ❑ Use of computers in hospital and community ❑ Patient record system ❑ Nursing records and reports ❑ Management information and evaluation system (MIES) ❑ E-nursing, Telemedicine, telenursing ❑ Electronic medical records
XI	10	Leadership ❑ Concepts, Types, Theories ❑ Styles ❑ Manager behavior ❑ Leader behavior ❑ Effective leader: Characteristics, skills ❑ Group dynamics ❑ Power and politics ❑ lobbying ❑ Critical thinking and decision making ❑ Stress management Applications to nursing service and education
XII	10	Legal and ethical issues Laws and ethics ❑ Ethical committee ❑ Code of ethics and professional conduct ❑ Legal system: Types of law, tort law, and liabilities ❑ Legal issues in nursing: negligence, malpractice, invasion of privacy, defamation of character ❑ Patient care issues, management issues, employment issues ❑ Medico legal issues ❑ Nursing regulatory mechanisms: licensure, renewal, accreditation ❑ Patients' rights, Consumer protection act (CPA) ❑ Rights of special groups: children, women, HIV, handicap, ageing ❑ Professional responsibility and accountability ❑ Infection control ❑ Standard safety measures

COURSE OUTCOMES (Cos)

CO1	Describe the philosophy and objectives of the Health care institution at various Level
CO2	Identify trends and issues in Nursing
CO3	Discuss the public administration, health care administration vis a vis Nursing Administration
CO4	Describe the Principles of administration applied to Nursing
CO5	Explain the organization of Health and Nursing services at the various level
CO6	Identify and analyse legal and ethical issues in Nursing Administration

Mapping/ Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	2	2	1		2			2	2	2		2	1	2
CO2		2	2			1					2	1	2		2
CO3		3		1			2			1	2		2		2
CO4	2					1			1		1		2	2	2
CO5	1	2	2	2	2		2	2		2		2			
CO6		2	2	2	2		2	2		2		2	2	2	2

(Tickmark or level of correlation: 3-High, 2-Medium, 1-Low)

PRACTICALS

- Prepare prototype personal files for staff nurses, faculty and cumulative records
- Preparation of budget estimate, Revised estimate and performance budget
- Plan and conduct staff development programme
- Preparation of Organization Chart
- Developing nursing standards/protocols for various units
- Design a layout plan for specialty units /hospital, community and educational institutions
- Preparation of job description of various categories of nursing personnel
- Prepare list of equipment and supplies for specialty units
- Assess and prepare staffing requirement for hospitals, community and educational institutions
- Plan of action for recruitment process
- Prepare a vision and mission statement for hospital, community and educational institutions
- Prepare a plan of action for performance appraisal
- Identify the problems of the specialty units and develop plan of action by using problem solving approach
- Plan a duty roster for specialty units/hospital, community and educational institutions
- Prepare: anecdotes, incident reports, day and night reports, handing and taking over reports, enquiry reports, nurses notes, Official letters, curriculum vitae, presentation etc
- Prepare a plan for disaster management
- Groupwork
- Field appraisal report

**(19COHN06)- CLINICAL
SPECIALITY-II**

COMMUNITY HEALTH NURSING-II

CLINICAL SPECIALITY-II

COMMUNITY HEALTH NURSING

PLACEMENT-II YEAR

Hours of instruction

Theory :150 hours Credit:7.5

Practical :950 hours Credit:47.5

Course Description

This course is designed to assist students in developing expertise and in-depth understanding in the field of community health nursing. It will help students to develop advanced skills for nursing intervention in various aspects of community health care settings. It will enable the student to function as community health Nurse practitioner/specialist. It will further enable the student to function as educator, manager and researcher in the field of community health nursing.

Objectives

At the end of the course the students will be able to:

1. Appreciate trends and issues related to community health Nursing- reproductive and child health, school health, Occupational health, international health, rehabilitation, geriatric and mental health.
2. Apply epidemiological concepts and principles in community health nursing practice
3. Perform community health assessment and plan health programmes
4. Describe the various components of Reproductive and child health programme.
5. Demonstrate leadership abilities in organizing community health nursing services by using inter-sectoral approach.
6. Describe the role and responsibilities of community health nurse in various national health and family welfare programmes
7. Participate in the implementation of various national health and family welfare programme
8. Demonstrate competencies in providing family centered nursing care independently
9. Participate/Conduct research for new insights and innovative solutions to health problems
10. Teach and supervise nurses and allied health workers.

Unit	Hours	Content
I	20	Epidemiology ❑ Introduction • Concept, scope, definition, trends, History and development of modern Epidemiology • Contribution of epidemiology • Implications ❑ Epidemiological methods ❑ Measurement of health and disease: ❑ Health policies ❑ Epidemiological approaches • Study of disease causatives • Health promotion • Levels of prevention ❑ Epidemiology of • Communicable diseases • Non-communicable diseases ❑ Emerging and re-emerging diseases Epidemics ❑ National Integrated disease Surveillance Programme ❑ Health information system ❑ Epidemiology study and reports ❑ Role of Community health nurse
II	40	National Health and Family Welfare Programmes ❑ Objectives, Organization/manpower/resources, Activities, Goals, inter-sectoral approach, implementation, item/purpose, role and responsibilities of community health nurse: • National Vector Borne Disease Control Programm (NVBDCP) • National Filaria Control Programme • National Leprosy Eradication Programme • Revised national TB Control Programme • National Programme for Control of Blindness • National Iodine Deficiency Disorders Control Programme • National Mental Health Programme • National AIDS Control Programme • National Cancer Control Programme • RCH I and II • Non- communicable disease programmes • NRHM - Health Schemes:

		☐ ESI ☐ CGHS ☐ Health Insurance
III	15	School Health ☐ Introduction: definition, concepts, objectives, ☐ Health assessment, Screening, identification, referral and follow up, ☐ Safe environment ☐ Services, programmes and plans- first aid, treatment of minor ailments ☐ Inter-sectoral coordination ☐ Adolescent health ☐ Disaster, disaster preparedness, and management ☐ Guidance and counseling ☐ School health records - maintenance and its importance ☐ Roles and responsibilities of community health nurse
IV	15	International health ☐ Global burden of disease ☐ Global health rules to halt disease spread ☐ Global health priorities and programmes ☐ International quarantine ☐ Health tourism ☐ International cooperation and assistance ☐ International travel and trade ☐ Health and food legislation, laws, adulteration of food ☐ Disaster management ☐ Migration ☐ International health agencies –World Health organizations, World health assembly, UNICEF, UNFPA, SIDA, US AID, DANIDA, DFID. AusAID etc ☐ International health issues and problems ☐ International nursing practice standards ☐ International health vis-a vis national health ☐ International health days and their significance
V	15	Education and administration ☐ Quality assurance ☐ Standards, Protocols, Policies, Procedures ☐ Infection control; Standard safety measures ☐ Nursing audit ☐ Design of Sub-Centre/Primary Health Centre/Community health center ☐ Staffing; Supervision and monitoring-Performance appraisal ☐ Budgeting ☐ Material management

		❑ Role and responsibilities of different categories of personnel in community health ❑ Referral chain- community outreach services ❑ Transportation ❑ Public relations ❑ Planning in-service educational programme and teaching ❑ Training of various categories of health workers- preparation of manuals
VI	10	Geriatric ❑ Concept, trends, problems and issues ❑ Aging process, and changes ❑ Theories of ageing ❑ Health problems and needs ❑ Psycho-physiological stressors and disorders ❑ Myths and facts of aging ❑ Health assessment ❑ Home for aged-various agencies ❑ Rehabilitation of elderly ❑ Care of elderly ❑ Elderly abuse ❑ Training and supervision of care givers ❑ Government welfare measures Programmes for elderly- Role of NGOs ❑ Roles and responsibilities of Geriatric nurse in the community
VII	10	Rehabilitation ❑ Introduction: Concepts, principles, trends, issues, ❑ Rehabilitation team ❑ Models, Methods ❑ Community based rehabilitation ❑ Ethical issues ❑ Rehabilitation Council of India ❑ Disability and rehabilitation- Use of various prosthetic devices ❑ Psychosocial rehabilitation ❑ Rehabilitation of chronic diseases ❑ Restorative rehabilitation ❑ Vocational rehabilitation ❑ Role of voluntary organizations ❑ Guidance and counseling ❑ Welfare measures ❑ Role and responsibilities of community health nurse

VIII	10	Community mental health ❑ Magnitude, trends and issues ❑ National Mental Health Program- Community mental health program ❑ The Changing Focus of care ❑ The Public Health Model ❑ Case Management- Collaborative care ❑ Crisis intervention ❑ Welfare agencies ❑ Population at Risk ❑ The community as Client • Primary Prevention • Secondary prevention • Tertiary Prevention ❑ Community based rehabilitation ❑ Human rights of mentally ill ❑ Substance use ❑ Mentally challenged groups ❑ Role of community health nurse
IX	15	Occupational health ❑ Introduction: Trends, issues, Definition, Aims, Objectives, Workplace safety ❑ Ergonomics and Ergonomic solutions ❑ Occupational environment- Physical, social, Decision making, Critical thinking ❑ Occupational hazards for different categories of people- physical, chemical, biological, mechanical, , Accidents, ❑ Occupational diseases and disorders ❑ Measures for Health promotion of workers; Prevention and control of occupational diseases, disability limitations and rehabilitation ❑ Women and occupational health ❑ Occupational education and counseling ❑ Violence at workplace ❑ Child labor ❑ Disaster preparedness and management ❑ Legal issues: Legislation, Labor unions, ILO and WHO recommendations, Factories act, ESI act ❑ Role of Community health nurse, Occupational health team

Course outcomes (Cos)

CO1	Remember the basic concepts of Normal pregnancy, labour and puerperium
CO2	Understand the physiology and management of High-risk pregnancy, abnormal labour and puerperium.
CO3	Analyze deviations from normal, able to provide appropriate Interventions.
CO4	Apply revised protocols to manage obstetrical emergencies.
CO5	Evaluate the outcomes of Nursing interventions and revisions made according to recent advancements.
CO6	Create new interventions/protocols to improve quality of care.

Mapping/ Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	2	2	1		2			2	2	2		3	1	2
CO2		3				1					2	1	2		2
CO3		3		1			2			1	2		2		3
CO4	3					1			1		1		3	2	2
CO5	1	2	3	2	2		2	2		3		2			
CO6		2	2	3	2		2	2		2		2	2	2	2

Tickmark or level of correlation: 3-High, 2-Medium, 1-Low)

PRACTICAL

Total = 960 Hours
1 Week = 30 Hours

S.No.	Deptt./Unit	No.of Week	Total Hours
1	Urban and Rural community	17	510 Hours
2	School Health	3	90 Hours
3	International health	2	60 Hours
4	Administration (SC/PHC/CHC)	2	60 Hours
5	Occupational health	2	60 Hours
6	Community Mental Health	2	60 Hours
7	Home for aged and Hospice	2	60 Hours
8	Rehabilitation	2	60 Hours
	Total	32 Weeks	960 Hours

CATEGORIZATION OF PRACTICAL ACTIVITIES

Observed

- MCH office and DPHNO
- CHC/First Referral Unit (FRU)
- Child guidance clinic
- Institute/Unit for mentally challenged
- District TB center
- AIDS control society
- Filariasis clinic
- RCH clinic
- STD clinic
- Leprosy clinic
- Community based rehabilitation unit
- Cancer centers
- Palliative care
- Homeo old age
- Mental health units
- De-addiction centers
- School health services
- Industry
- Selected industrial health centers
- ESI unit
- Municipality/corporation office

Assisted

- Laparoscopic sterilization
- Vasectomy
- All clinics related to RCH
- Monitoring of national health and family welfare programmes

Performed

- Conduct various clinics
- School health assessment.
- Health survey.
- Health assessment
- Drug administration as per the protocols

ELECTIVE COURSE
(19ECAPO6) –AIR POLLUTION

Introduction

Air pollution is the presence of substances in the atmosphere that are harmful to the health of humans and other living beings, or cause damage to the climate or to materials. There are many different types of air pollutants, such as gases (such as ammonia, carbon monoxide, sulfur dioxide, nitrous oxides, methane, carbon dioxide and chlorofluorocarbons), particulates (both organic and inorganic), and biological molecules.

Course objectives

As a result of taking this class, students are expected to be able to

1. Explain the basic concepts of pollution.
2. Describe the causes of air pollution.
3. Discuss the health related problems due to air pollution.
4. Explain the control of air pollution
5. To identify the pollutants and their sources and then the followed by its impact and their control mechanisms.

Unit	Learning objectives	Content	Hours
I	describe the industrial accidents	Introduction Industrial Accidents Air Pollutants Sources of Air Pollution Emission Inventory Air Pollution Index Air Pollution in India	T (10)
II	Explain the control of air pollution	Air Pollution control Strategy and Tactics-The Air Pollution System Episode Control Air Quality Management Control Strategy Alternative Control Strategies Economic Considerations	T(10) P(5)
III	Describe air quality management	AIR QUALITY MANAGEMENT Air quality standards Air quality monitoring Preventive measures Air pollution control efforts Zoning – Town planning regulation of new industries Legislation and enforcement Environmental Impact Assessment and Air quality	T(10) P(2)

Teaching- Learning Strategies

- 1) Lecture cum Discussion
- 2) Seminar
- 3) Lab-bag technique
- 4) Demonstration
- 5) Assignments

Assessment Techniques of each topic of the course

S.No	Topic	Assessment Techniques
1.	Describe the types of hazards	Short answer
2.	Explain the characteristics of hazardous chemicals	Short answers, Descriptive type, Drug and its indication
3.	Discuss handle hazardous chemicals for Storage Handling	Descriptive type, Health Education Return demonstration

19ECBTS07) –BLOOD TRANSFUSION SAFETY

Introduction

A blood transfusion is a routine medical procedure in which donated blood .This potentially life-saving procedure can help replace blood lost due to surgery or injury. A blood transfusion also can help if an illness prevents your body from making blood or some of your blood's components correctly.

Course Objective

As a result of taking this class, students are expected to be able

- ✓ To understand the basic principles and concepts presented in the transfusion medicine core curriculum and develop a fund of basic knowledge in the field
- ✓ To recognize problems in clinical medicine those are related to transfusion and apply concepts and principles in the core curriculum to clinical situations
- ✓ To provide appropriate therapeutic solutions to transfusion medicine problems
- ✓ To provide consultants and teachers in Transfusion Medicine in various medical colleges and institutions for operating a well organized & efficient transfusion services.

Unit	Learning Objective	Content	Hrs
I	Describe about Immunohaematology	Immunohaematology Basic Principles of Immunohaematology, Application of Blood groups: Population Genetics, Forensic medicine, Transfusion medicine 2. ABO Blood of Group Systems: History, Genetics, ABH antigens, Biochemical Synthesis of blood group antigens, Antigenic sites, weaker variants, Bombay Phenotype, ABO antibodies, 3. RH Blood Group System: History, Genetics, Molecular Genetics, Nature of Rh Antigens, Partial D, Weak D, other variants of Rh, Rh Null, Rh antibodies, factors influencing Rh immunization, Functional role of Rh antigens 4. Other Blood Group Systems: Lewis, P, Ii, MNSs, Kell, Duffy, Celano, In, Private antigens, Public antigens.	T (10)
II	Explain about Hematology	Hematology Collection of blood samples, types of anticoagulants , Complete hemogram, Different methods of hemoglobin screening/estimation: Copper sulphate, hematology analyzers, Sahli's, Cyanmethemoglobin and Hemo-Q methods, Red cell indices ,Normal erythropoiesis, Leucopoiesis, Formation and function of platelets . Classification of anemia, their laboratory diagnosis, Hemoglobinopathy: Beta Thalassemia and Sick cell disease, G6PD deficiency, polycythemia. Autoimmune hemolytic anemia, classification, diagnosis, specificity of autoantibodies	T (10)
III	Discuss the general Immunology	General Immunology. Introduction to Immunology, History, Immunity 2. Antigens : Immunogen, allo-antigen, soluble antigen, Red cell antigen, Epitopes 3. Antibodies: Polyclonal antibodies, development of antibodies, structure of immunoglobulins, characteristics of immunoglobulins 4. Monoclonal antibodies: Hybridoma technology, Human monoclonal antibodies, Applications of MAb 5. Antigen antibody reaction: Antigen concentration, antibody concentration, enhancing media, other factors influencing antigen antibody reaction, Immunoassays: ELISA, IRMA, RIA 6. Cells of immune system: Phagocytic cells, Antigen presenting cells, T cells, T cell subsets, B cells, CD Markers, Flowcytometry for counting T & B cells	T (10)

Teaching- Learning Strategies

- 6) Lecture cum Discussion
- 7) Seminar
- 8) Lab-blood bank
- 9) Demonstration
- 10) Assignments

Assessment Techniques of each topic of the course

S.No	Topic	Assessment Techniques
1.	Describe Immuno haematology	Short answer
2.	Collection of blood samples	Short answers, Descriptive type.
3.	Discuss about Immunology	Subjective type

(19ECCS08) –CHEMICAL SAFETY

Introduction

Chemical Safety is achieved by undertaking all activities involving chemicals in such a way as to ensure the safety of human health and the environment. It covers all chemicals, natural and manufactured, and the full range of exposure situations from the natural presence of chemicals in the environment to their extraction or synthesis, industrial production, transport use and disposal.

Course Objective

As a result of taking this class, students are expected to be able to

1. Explain Indian and International Safety standards.
2. Identify the causes of accident and explain various engineering control methods
3. Explain storage, handling and transportation of hazardous materials.
4. Classify fire extinguishing agents and method

Unit	Learning Objective	Content	Hrs
I	Describe the types of hazards	Classify the hazards Types of hazard (1) Chemical hazard (2) Thermal hazard (3) Electrical hazard (4) Mechanical hazard (5) Vibrational hazard (6) Biological hazard (7) Radioactive hazard	T (10)
II	Explain the characteristics of hazardous chemicals	Discuss characteristics of hazardous chemicals Hazardous chemicals like (a) Chlorine (b) Nitric Acid (c) Ammonia (d) Carbon Monoxide (e) Caustic Soda (f) Phosphoric Acid. (g) Sulfuric Acid (h) HC	T (10)
III	Discuss handle hazardous chemicals for Storage Handling	Handle hazardous chemicals for Storage Handling & Transportation, Fire Hazards Storage, Handling & Transportation of hazardous chemicals, Fire hazards & their causes	T (10) P (5)

Teaching- Learning Strategies

- 11) Lecture cum Discussion
- 12) Seminar
- 13) Lab-bag technique
- 14) Demonstration
- 15) Assignments

Assessment Techniques of each topic of the course

S.No	Topic	Assessment Techniques
1.	Describe the types of hazards	Short answer
2.	Explain the characteristics of hazardous chemicals	Short answers, Descriptive type, Drug and its indication
3.	Discuss handle hazardous chemicals for Storage Handling	Descriptive type, Health Education Return demonstration

(19ECCA09) –CHILD ABUSE

Introduction

Child abuse happens when someone caring for a child hurts a child's feelings or body. It can happen to boys or girls in any family. Often, hurt feelings (or emotional trauma) last long after a hurt body has healed. Knowing the dangers of abuse and what to do if you suspect it is key to keeping all children safe

Course Objective

As a result of taking this class, students are expected to be able to

1. Discuss the history of Child Abuse
2. Define different types of child abuse and discuss signs of child abuse.
3. Use case examples and discuss different types of abuse that occurred in each case.
4. Discuss the laws of abuse, how to report, and information to know when reporting to proper Authorities.
5. Explain the court system and process that occurs when child abuse is reported.
6. Discuss various community agencies that work with child abuse and adult survivors of child abuse in the area and their role

Unit	Learning Objective	Content	Hrs
I	Describe the history of child abuse	INTRODUCTION Describe the history of child abuse. Articulate emergency notice number for reporting abuse and describe current laws related to reporting child abuse. Compare and contrast the similarities and differences between abuse of boys and girls. Demonstrate strategies for working with families who experience child abuse, including emotional support and referral options. Describe the myths and stereotypes of child abuse and adult survivors	T (10)
II	Explain the indicators of abuse and neglect	INDICATORS OF ABUSE AND NEGLECT. 1. Define child maltreatment and its elements. 2. Identify physical and behavioral indicators associated with abuse and neglect. 3. Discuss populations which are high risk for abuse and/or neglect. Identify causes for their high risk.	T (10)
III	Discuss handle hazardous chemicals for Storage Handling	FACTORS RELATING TO ABUSE AND NEGLECT OF CHILDREN. Define child maltreatment and its elements Identify the types of child abuse and neglect as well as abuse to other members of the family. List agencies which work with families and persons involved with abuse and neglect and explain the agencies' functions. Relate the causes of child abuse and neglect. Discuss populations which are high risk for abuse and/or neglect. Identify causes for their high risk. Cite preventive and rehabilitative measures for child abuse and neglect and other forms of abuse and neglect within a family.	T (10)

Teaching- Learning Strategies

1. Lecture cum Discussion
2. Seminar
3. Lab-bag technique
4. Demonstration
5. Assignments

Assessment Techniques of each topic of the course

S.No	Topic	Assessment Techniques
1.	Describe the history of child abuse	Short answer
2.	Explain the indicators of abuse and neglect	Short answers, Descriptive type, Drug and its indication
3.	Discuss handle hazardous chemicals for Storage Handling	Descriptive type, Health Education Return demonstration

(19ECA10) –ALCOHOLISM

Introduction

Alcoholism is, broadly, any drinking of [alcohol](#) those results in significant [mental](#) or physical [health](#) problems. Alcoholism is not a recognized diagnostic entity. Predominant diagnostic classifications are alcohol use disorder. Environment and genetics are two factors in the risk of development of alcoholism, with about half the risk attributed to each. Stress and associated disorders, including anxiety, are key factors in the development of alcoholism as alcohol consumption can temporarily reduce dysphoria

Course Objective

As a result of taking this class, students are expected to be able to

1. Explain how exposure to alcohol affects your body, thinking, moods, behavior
2. Identify how social and interpersonal influences affect drinking patterns (e.g., perceived norms, modeling, reinforcement, gender roles)
3. Identify the role of the socio cultural context and policies in shaping drinking practices
4. Explain epidemiological factors associated with alcohol use and misuse
5. Understand the meaning and correlates of alcohol abuse and alcohol dependence
6. Identify the chronic effects of alcohol on physical and mental health, and social role functioning

Unit	Learning Objective	Content	Hrs
I	describe the problems of alcoholism	INTRODUCTION Introduction to the Problem: Concept (what constitutes drug abuse); Nature (vulnerable age groups, signs and symptoms); Causes(physiological, psychological, sociological); Consequences (for individuals, families, society and nations)	T (10)
II	explain the the effects of alcoholism	ALCOHOLISM AND ITS EFFECTS Screening tools (i.e. CAGE, MAST, or AUDIT questionnaires) • Mechanism of alcohol withdrawal • Timeline of withdrawal symptoms • Risk of withdrawal seizures and delirium tremens • CIWA protocol o When certain benzodiazepines are preferred over others • Anti-craving medications (e.g. naltrexone, acamprosate, topiramate, gabapentin, disulfiram, baclofen) o Mechanism of action o Side effects o When to initiate o Safety in liver disease/cirrhosis • Long-term complications of abuse o Cirrhosis	T (10)
III	Discuss the role of nurses in prevention of alcoholism	ROLE OF NURSES. Role of nurses in educating patients, families, and other health care providers on prevention of alcoholism. Guidance and counseling	T (10)

Teaching- Learning Strategies

1. Lecture cum Discussion
2. Seminar
3. Lab-bag technique
4. Demonstration
5. Assignments

Assessment Techniques of each topic of the course

S.No	Topic	Assessment Techniques
1.	Mechanism of alcohol withdrawal	Short answer
2.	Risk of withdrawal seizures and delirium tremens	Short answers, Descriptive type, Drug and its indication
3.	Role of nurses in educating patients	Descriptive type, Health Education Return demonstration

SYLLABUS M.SCNURSING

Obstetrics and Gynaecological Nursing

(Revised Regulations-2019)



Bharath Institute of Higher Education and Research
(Deemed To Be University)
Chennai

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH
TAMILNADU, CHENNAI



The motto of the BIHER is win the world by innovation. To the stars by hard work. The emblem of the Bharath Institute of Higher Education and Research is a symbolic expression of equality, knowledge, enlightenment, expression of peace and love and all this based as a source of all medicines

The main aim of establishing the institute was to provide high quality education to students from across the world in several relevant fields. The institute was developed to become a premier university for Teaching, Learning, Research, and Innovation. Students here are trained to create a better society with ethics and morals.

Bharath Institute of Higher Education & Research (TamilNadu) earlier known as **Bharath University**, commonly referred to as BIHER, commenced its establishment in the academic year of 1984. Bharath University has been given the status of 'Deemed to be University'. The institute is approved and recognized by the All-India Council for Technical Education (AICTE) and the University Grants Commission (UGC) respectively. It has also been accredited with grade 'A' by the National Assessment and Accreditation Council (NAAC).

PHILOSOPHY:

Bharath University of Higher Education and Research believes that:

Post Graduate programme is essential to prepare nurses to improve the quality of nursing education and practice in India. Post graduate programme in nursing builds upon and extends competence acquired at the graduate levels, emphasizes application of relevant theories into nursing practice, education, administration and development of research skills.

The programme prepares nurses for leadership position in nursing and health fields who can function as nurse specialists, consultants, educators, administrators and researchers in a wide variety of professional settings in meeting the National priorities and the changing needs of the society. This programme provides the basis for the post masteral programme in nursing. Further the programme encourages accountability and commitment to life long learning which fosters improvement of quality care.

AIM:

The aim of the postgraduate program in nursing is to prepare graduates to assume responsibilities as nurse specialists, consultants, educators, administrators in a wide variety of professional settings.

OBJECTIVES:

On Completion of the two years M. Sc Nursing programme, the graduate will be able to:

1. Utilize/apply the concepts, theories and principles of nursing science
2. Demonstrate advance competence in practice of nursing
3. Practice as a nurse specialist.
4. Demonstrate leadership qualities and function effectively as nurse educator and manager.
5. Demonstrate skill in conducting nursing research, interpreting and utilizing the findings from health related research.
6. Demonstrate the ability to plan and effect change in nursing practice and in the health care delivery system.
7. Establish collaborative relationship with members of other disciplines
8. Demonstrate interest in continued learning for personal and professional advancement.

VISION

Bharath Institute of Higher Education & Research (BIHER) envisions and constantly strives to provide an excellent academic and research ambience for students and members of the faculties to acquire professional competence along with human dignity, and spearhead the transformation of community through continuous discovery in science and technology.

MISSION

To develop as a Premier University for Teaching, Learning, Research and Innovation on par with leading global universities.

To impart education and training to students for creating a better society with ethics and morals.

To foster an interdisciplinary approach in education, research and innovation by supporting lifelong professional development, enriching knowledge banks through scientific research, promoting best practices and innovation, industry-driven and institute-oriented cooperation, globalization and international initiatives.

To develop as a multi-dimensional institution contributing immensely to the cause of societal advancement through spread of literacy, an ambience that provides the best of international exposures, provide health care, enrich rural development and most importantly impart value-based education.

To establish benchmark standards in professional practice in the fields of innovative and emerging areas in medicine, dentistry, nursing, physiotherapy, allied sciences, engineering, and management.

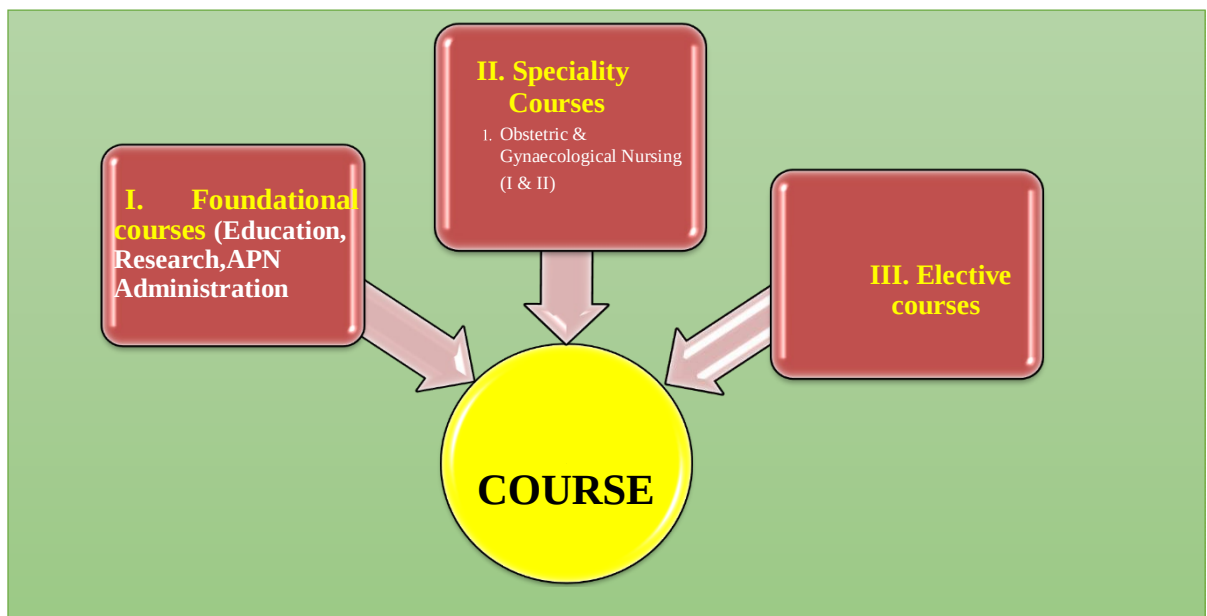
To launch new programmes with innovative curriculum design by provide multi-faceted exposure in various subjects.

To provide flexibility to students - options / add-ons to core subjects, develop Device Agnostic Technology to access online content Funding/incubation entrepreneurial ideas flipped class room – Integrated Courses & Need based learning.

Programme Educational Objects (PEO)

1. To become a competent nurse qualified to practice in a variety of settings in either public/ government or private health care
2. To demonstrate the ability to plan and effect change in nursing practice and in the health care delivery system.
3. To ordinate/manage care by being active participant of inter-professional team and member of a profession demonstrating self-responsibility and accountability for practice as well as to support the profession.
4. To develop leadership and managerial skills to meet the goal/ challenges of a health care organization or an Educational Institute
5. To become exemplary citizens by adhering to code of ethics and professional conduct at all times in fulfilling personal, social and professional obligations so as to respond to national aspirations

MSC NURSING PROGRAM-TWO YEARS
CHOICE BASED CREDIT SYSTEM(CBCS)
COMPETENCY BASED CURRICULUM



PROGRAMME OBJECTIVES

PO1	Provide holistic care recognizing individual patient's preferences, values and needs, that is compassionate, coordinated, age and culturally appropriate safe and effective care.
PO2	Demonstrate accountability for the delivery of standard-based nursing care that is consistent with moral, altruistic, legal, ethical, regulatory and humanistic principles.
PO3	Influence the behaviour of individuals and groups within their environment and facilitate establishment of shared goals
PO4	Demonstrate awareness and responsiveness to the context of healthcare system and ability to manage resources essential to provide optimal quality of care
PO5	Use technology and synthesize information and collaborate to make critical decisions that optimize patient outcomes
PO6	Interact effectively with patients, families and colleagues fostering mutual respect and shared decision making to enhance patient satisfaction and health outcomes
PO7	Function effectively within nursing and interdisciplinary teams, fostering open communication, mutual respect, shared decision making, team learning and development.
PO8	Minimize risk of harm to patients and providers through both system effectiveness and individual performance
PO9	Use data to monitor the outcomes of care processes and utilize improvement methods to design and test changes to continuously improve the quality and safety of healthcare system
PO10	Identify, evaluate and use the best current evidence coupled with clinical expertise and consideration of patient's preferences, experience and values to make practical decisions.
PO11	To become Nurse Researcher and demonstrate skill in conducting research and integrate Evidence based practice in health care.
PO12	To become Nurse Educator to understand the process to understand the process of curriculum development and the methodology of curriculum change, innovation and integration.

PROGRAMME SPECIFIC OUTCOME (PSOS)

PSO1	To become a Nurse Educator in Health Care settings and educational Institutions.
PSO2	To Become Nurse Specialist in the field of Obstetrics & gynaecological Nursing.
PSO3	To develop leadership qualities and managerial skills to meet challenges/goals of an Institution or an health care organization.

(** PSO- 2 or 3)

MAPPING / ALIGNMENT OF PEO VS PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
PEO1		✓										✓	✓		✓
PEO2											✓				
PEO3		✓					✓	✓	✓	✓			✓	✓	
PEO4	✓		✓	✓											
PEO5		✓			✓	✓	✓		✓					✓	

MAPPING BETWEEN COURSE OUTCOMES (COS) AND PROGRAMME OUTCOMES (POS)

YR	Courses/ SOs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
I	THEORY												
	Nursing education												
	Advanced Nursing Practice							✓					
	Nursing Research & statistics												
	Clinical Speciality I (Obstetrics & Gynaecological Nursing-I)						✓	✓					
	PRACTICAL				✓								
	Nursing education												
	Advance Nursing practice				✓								
	Nursing Research and Statistics												
	*Clinical specialty-I (OBG)												
II	THEORY	✓											
	Nursing Management			✓	✓								
	Clinical Speciality II (Obstetrics & Gynaecological Nursing-II)	✓						✓					
	PRACTICAL												
	Nursing Management			✓	✓			✓					
	Nursing Research (Dissertation)	✓		✓				✓					
	Clinical Speciality II (OBG-II)												

**MAPPING BETWEEN PROGRAMME ELECTIVES (PEs) AND
PROGRAMME OUTCOMES (POs)**

Year	Elective Courses/ SOs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
I	Yoga, Breathing and relaxation during Childbirth												
	Cervical Insufficiency												
	Ethical and Legal issues in Abortion		✓										
	Adolescent Gynaecology												
	IVF												
II	Adolescent Pregnancy						✓						
	Natural Birthing Process												
	Oxytocin Induction of Labour								✓				
	Obstetrical Emergencies								✓		✓		
	Oncology Gynaecology				✓								

M.Sc. Nursing Ist Year						
Course Code	Course Category	Course Title	L	T	P	C
THEORY						
19NE01	CC	Nursing education	3	0	3	7.5
19ANP02	CC	Advanced Nursing Practice	3	0	3	7.5
19NRS03	CC	Nursing Research & statistics	3	0	3	7.5
19OBGN04	SP	Clinical Specialty I (Obstetrics & Gynecological Nursing-I)	3	0	3	7.5
PRACTICAL						
19NE01	CC	Nursing education	0	0	3	7.5
19ANP02	CC	Advance Nursing practice	0	0	3	10
19NRS03	CC	Nursing Research and Statistics	0	0	3	5
19OBGN04	SP	*Clinical specialty-I (OBG)	0	0	3	32.5

M.Sc. Nursing IInd Year						
Course Title			L	T	P	C
THEORY						
19NM05	CC	Nursing Management	3	0	3	7.5
19OBGN06	SC	Clinical Specialty II (OBG)	3	0	3	7.5
PRACTICAL						
19NM05	CC	Nursing Management	0	0	3	7.5
19NRS03	CC	Nursing Research- Dissertation	0	0	3	15
19OBGN06	SC	*Clinical specialty–II (OBG)	0	0	3	47.5

ELECTIVECOURSES

(Standard National/International Modules can be used)

Course Code	Elective courses	L	T	P	C
I Year					
19ECYBC01	Yoga, Breathing and relaxation during Childbirth	3	0	2	2
19ECCI02	Cervical Insufficiency	3	0	2	2
10ECELIA03	Ethical and Legal issues in Abortion	3	0	0	2
19ECAG04	Adolescent Gynecology	3	0	1	2
19ECIVF05	IVF	3	0	1	2
II Year					
19ECAP06	Adolescent Pregnancy	3	0	1	2
19ECNBP07	Natural Birthing Process	3	0	1	2
19ECOIL08	Oxytocin Induction of Labor	3	0	1	2
19ECOE09	Obstetrical Emergencies	3	0	2	2
19ECOG10	Oncology Gynecology	3	0	2	2
	(4 Courses Mandatory) – 2 Credits = 40 Hours				

SUMMARY OF CURRICULUM STRUCTURE AND CREDIT & CONTACT HOUR DISTRIBUTION

S.No	Sub Area	Credit As per Year		No. of Credit
		I	II	
1	Core Courses	45	30	75
2	Speciality Courses	40	55	95
3	Elective Courses	4	4	8
	TOTAL			178

REGULATIONS

ELIGIBILITY CRITERIA/ADMISSION REQUIREMENTS:

- The candidate should be a Registered Nurse and Registered midwife or equivalent with any State Nursing Registration Council.
- The minimum education requirements shall be the passing of: B.Sc. Nursing / B.Sc. Hons. Nursing / Post Basic B.Sc. Nursing with minimum of 55% aggregate marks.
- The candidate should have undergone in B.Sc. Nursing / B.Sc. Hons. Nursing / Post Basic B.Sc. Nursing in an institution which is recognized by Indian Nursing Council.
- Minimum one year of work experience after Basic B.Sc. Nursing.
- Minimum one year of work experience prior or after Post Basic B.Sc. Nursing.
- Candidate shall be medical lyfit.
- 5% relaxation of marks for SC/ST candidates may be given.
- Preference will be given to candidate with clinical experience on the area of specialty choose.

ELIGIBILITY CERTIFICATE

- Candidate from Tamil Nadu as well as other state need to obtain as eligibility certificate from the Bharath University by remitting the prescribed fees along with the application form.
- Candidate from other states must produce the migration certificate at the time

of admission.

REGISTRATION

The candidate admitted to the programme shall register with the Bharath University by remitting the prescribed fees along with the application form for registration duly filled in and forwarded to the Bharath University through the head of the Institution within the stipulated date.

SELECTION OF THE CANDIDATE:

- Candidate will be selected on the basis of merit and experience in Specialty areas by college selection committee member.
- After scrutiny of application eligible candidate will be called for an Interview/ entrance test before admission.
- Admission notification will intimate the date of commencement of course.

Programme of study

The M. Sc (Nursing) programme is of 2 years, non-semester study. During the programme, theory, clinical experience in the hospitals & community will be provided.

Duration

Duration of the course is 2 years for M.Sc. (N)

Available	52 weeks
Vacation	4 weeks
Examination	2 weeks
Gazetted holidays	3 weeks
Total weeks available	43 weeks
40 hours per week	1720 hours
Total hours for 2 years	3440 hours

Course of Instruction

I YEAR

Theory (hrs) Credit Practical (hrs)Credit

Nursing education	150	7.5	150	7.5
Advance nursing practice	150	7.5	200	10
Nursing Research and statistics	150	7.5	100	5
*Clinical specialty –I	150	7.5	650	32.5
TOTAL	600	30	1100	55

II YEAR

Theory(hrs) Credit Practical (hrs)Credit

Nursing Management	150	7.5	150	7.5
Nursing Research (Dissertation)			300	15
*Clinical Specialty-II	150	7.5	950	47.5
TOTAL	300	15	1400	70

Educational visit 2 weeks

Scheme of Examination

	Theory			Practical		
1st year	Hours	Internal	External	Hours	Internal	External
Nursing education	3	25	75	3	50	50
Advance nursing practice	3	25	75	3		
Nursing Research and Statistics	3	25**	75*	3		
Clinical speciality -I	3	25	75	3	100	100
Total		100	300		150	150
II nd Year						
Nursing Management	3	25	75	3		
Dissertation & Viva				3	100	100
Clinical Speciality-II	3	25	75	3	100	100
Total		50	150		200	200

Nursing research=50 and statistics=25

** Nursing research=15 and statistics=10

1. Minimum pass marks shall be 50 % in each of the Theory and practical papers separately.
2. A candidate must have minimum of 80% attendance (irrespective of the kind of absence) in theory and practical in each subject for appearing for examination.
3. A candidate must have 100% attendance in each of the practical areas before award of degree
4. A candidate has to pass in theory and practical exam separately in each of the paper.
5. If a candidate fails in either the theory or practical paper, he/she has to re-appear for both the papers (Theory and practical).
6. Maximum no. of attempts permitted for each paper is 3 including first attempt

7. The maximum period to complete the course successfully should not exceed 4 (four) years
8. A candidate failing in more than two subjects will not be promoted to the II year.
9. No candidate shall be admitted to the subsequent II-year examination unless the candidate has passed the I year examination.
10. Maximum number of candidates for all practical examination should not exceed 10 per day.
11. Provision of Supplementary examination should be made.
12. All practical examinations must be held in the respective clinical areas.
13. One internal and One external examiner (outside the University) should jointly conduct practical examination for each student
14. An examiner should be M. Sc (N) in concerned subject and have minimum of 3 (three) years post graduate teaching experience.
15. One internal and One external examiner (outside the University) should evaluate dissertation and jointly conduct viva-voce for each student
16. For Dissertation Internal examiner should be the guide and external examiner should be Nursing faculty / nursing expert in the same clinical speciality holding Ph.D./M.Phil/M.Sc. Nursing with a minimum of 3 years' experience in guiding the research projects for Post Graduate students of Nursing.

ATTENDANCE:

A Candidate pursuing M.Sc. Nursing Course shall study in the concern department of the institution for the entire period as a full-time student. No candidate is permitted to work in any laboratory/college/industry/pharmacy etc while studying post graduate course. No candidate should join any other course of study or appear for any other examination conducted by the university or any other university in India or abroad during the period of registration.

Each year shall be taken as a unit for the purpose of calculating attendance.

1. Every student shall attend symposium, seminars, conferences, journal review meetings and lectures during each year as prescribed by the department/college/university and not absent himself/herself without valid reasons.
2. Candidate who has put in a minimum of 80% attendance in the theory and practical assignments separately shall be permitted to appear for M.Sc. Nursing examination, provided she /he has completed the course and has shown satisfactory progress mention in the logbook
3. Any student who fails to complete the course in the manner stated above shall not be permitted to appear for the university examination

INTERNAL ASSESSMENT MARKS

There shall be continuous internal assessment. The marks for internal assessment set apart for the theory and practical in each subject there shall

be two tests and two assignments in each subject, the average of which shall be taken for the internal assessment. The principal shall notify the internal assessment marks in the notice board at the end of each term without fail under the intimation of the university. The principal of the college shall send the internal assessment marks of the students to the university

A student must secure at least 50% of the total marks fixed for internal assessment in a particular subject in order to be eligible to appear in university examination in all subject

Distribution of internal assessment marks for various subjects Firstyear

SI.NO	SUBJECT	INTERNALASSESSMENT MARKS
01	NURSING EDUCATION Theory Practical	25 50
02	ADVANCE NURSING PRACTICE	25
03	NURSING RESEARCH AND STATISTICS	25
04	CLINICAL SPECIALITY-I Theory Practical	25 100
	TOTAL	230

Secondyear

SI.NO	SUBJECT	INTERNAL ASSESSMENT MARKS
01	NURSING MANAGEMENT	25
02	DISSERTATION AND VIVA PRACTICAL	NIL
03	CLINICAL SPECIALITY-I Theory Practical	25 100
	TOTAL	140

MONITORING PROGRESS OF STUDIES:

Every candidate shall maintain a log book and record of her/his participation in the training programme conducted by the department such as journal reviews, seminars etc. The faculty members and peers will assess the presentation using relevant check list. The presentation made by the candidate should be mention in the logbook. The log book shall be scrutinized and certified by the Tamilnadu Nursing Council and presented in the university practical examination

M.Sc. Nursing Log Book:

The university has prescribed a log book which is scrutinized by Tamilnadu Nursing Council.

DISSERTATION:

Each candidate pursuing M.Sc. Nursing course is required to carry out on selected research project under the guidance of a recognized Post Graduate Teacher. The results of such a work shall be submitted in the form of dissertation.

The dissertation is aimed to train a graduate student in research methods and techniques. It includes identification of problems, formulation of hypothesis, search and review of literature, getting acquainted with recent advances, designing of a research study, collection of data, critical analysis, interpretation of results and drawing conclusions. Every candidate shall submit to the Registrar of the university in the prescribed proforma. No change in the dissertation topic or guide shall be made without prior approval of the university.

The dissertation should be written under the following headings:

- I. Introduction
- II. Aims or objectives of study
- III. Review of literature
- IV. Materials and methods
- V. Results
- VI. Discussion
- VII. Conclusion
- VIII. Summary
- IX. References
- X. Tables
- XI. Annexure

The written text of dissertation shall not be less than pages and shall not exceed 100 pages excluding references, tables, questionnaires. and other annexure. it should be neatly typed in double line spacing on one side of paper

(A4 Size, 8.27" x 11.69") and bound properly. Spiral binding should not be done. A declaration by the candidate for having done the work should also be included and certified by the guide, head of the department and head of the institution. Six copies of dissertation shall be submitted to the registrar through proper channel along with soft copy. Three months before the final examination. it shall be assessed by three examiners, one internal and two externals, appointed by the university. Acceptance of the dissertation is a pre-requisite for a candidate appear for final examination.

Regulations for examination:

The M.Sc. nursing course shall have two examinations, one at the end of the first year and second at the end of the second year

Eligibility for appearing for the examination:

75% of the attendance for theory and practical. However, 100% of attendance for practical before the award of degree.

M.Sc. Nursing, I Year Examination:

It consists of theory(written) papers and practical examinations.

Theory – (Written) Examination:

The following 4 papers are the theory papers for candidates

1. Nursing education
2. Advance nursing practice
3. Nursing research and statistics
4. Clinical specialty

Criteria to pass:

To be declared as pass in the M.Sc. I year a candidate has to pass in all the prescribed subjects for the I year.

Practical examination

There shall be practical examination in nursing education and nursing specialty chosen by the candidate

01. Common Subject:

A candidate shall secure in each of the common subjects not less than 50%marks prescribed for university examination.

02. Nursing Specialty Subject:

A candidate shall secure not less than 50% marks prescribed for university examination in theory and practical examination exclusive of internal assessment marks.

Carry over

The candidate who has failed in more than two subjects will not be promoted to the II year

M.Sc. Nursing I Year Examination:

The university examination consists of dissertation, written papers (theory), practical examination and viva-voce examination, including dissertation.

Dissertation:

Only candidates whose dissertation has been accepted shall be eligible to appear for M.Sc. II year examination.

Theory – (Written) Examination:

The following 2 papers are the theory papers for candidates

1. Nursing management
2. Clinical specialty

Practical examination

There shall be practical examination in nursing speciality chosen by the candidate

Criteria to pass:

To be declared as pass in the M.Sc. II year a candidate has to pass in all the prescribed subjects for the II year.

01. Common Subject:

A candidate shall secure in each of the common subjects not less than 50% marks prescribed for university examination.

02. Nursing Specialty Subject:

A candidate shall secure not less than 50% marks prescribed for university examination in theory and practical examination exclusive of internal assessment marks.

Classification of results:

- 50% pass in each of the theory and practical separately.
- 50-59% Second division
- 60-74% first division
- 75% and above is distinction

For declaring the rank aggregate of 2 years marks to be considered

If the candidate fails in either practical or theory paper, he/she has to re-appear for both the papers (theory and practical)

Maximum no. of attempts per subject is three (3) inclusive of first attempt. The maximum period to complete the course successfully should not exceed 4 years

Candidate who fails in any subject, shall be permitted to continue the studies into the second year. However the candidate shall not be allowed to appear for the Second year examination till such time that he/she passes all subjects of the first year M. Sc nursing examination

Eligibility for degree:

A candidate shall have passed in all the subjects of M.Sc. I &II Year to be eligible for the award of degree

Practical

- 4 hours of practical examination per student.
- Maximum number of 10 students per day per specialty.
- The examination should be held in clinical area only for clinical specialties
- One internal and external should jointly conduct practical examination
- Examiner – Nursing faculty teaching respective specialty area in M.Sc nursing programme with minimum 3 years' experience after M.Sc nursing.

Guidelines for Dissertation Tentative

Schedule for dissertation

S. No.	Activities	Scheduled Time
1.	Submission of the research proposal	End of 9 th month of 1 st year
2.	Submission of dissertation – Final	End of 9 th month of II nd Year

Note: - Administrative approval and ethical clearance should be obtained

Research Guides

a) Qualification of Guide

Main guide: Nursing faculty / nursing expert in the same clinical specialty holding Ph.D./M.Phil/M.Sc. Nursing with a minimum of 3 years' experience in teaching in the Post Graduate Programme in Nursing.

Co-Guide: A Co-Guide is a nursing faculty/expert in the field of study (may be from outside the college but should be within the city.)

b) Guide – Students Ratio

Maximum of 1:4 (including as co-guide)

c) Research Committee

There should be a research committee in each college comprising of minimum 5 members chaired by the Principal, College of Nursing.

d) Change of guide:

In the event of a register guide leaving the college for any reasons or in the event of death of guide, guide may be changed with prior permission from the university

Evaluation of Dissertation:

The dissertation shall be evaluated by:

1. Professor of Nursing Research common to all the branches of speciality.
2. Professor in clinical specialty.
3. An external examiner which experience in Nursing Research who will be common to all the branches of specialty
4. Thenumberofpagesofdissertationshouldnotexceed60pages
5. Theviva-voceexaminationshouldbeminimum30minutesperstudent.

Resubmission of theses:

- Resubmissionoftheseswithcorrectionsanbedonewithin6months
- Resubmissionoftheseswithtotalre-doingcanbedonewithin2years.

Conduct and Discipline:

1. Students are expected to follow ethical values in personal and profession life and maintain the professional standards in college and hospital.
2. Students should make every effort to care of the college, hostel and hospital property.
3. Students are expected to abide by the rules and regulations laid by the College, Hospital and Hostel.

Eligibility for Examiners

Internal examiner:

A person to be eligible to be appointed as internal examiner shall be recognized PG teacher of BIHER in the concerned branch of speciality and shall have at least 3 years of PG Teaching experience M.Sc. Nursing students.

External examiner:

A person to be eligible to be appointed as external examiner shall have the qualification prescribed above for a guide and shall have at least 3 years of PG Teaching experience for M.Sc. Nursing students.

Number of examiners:

There shall be two examiners, one internal and one external

(19NE01) NURSING EDUCATION

PLACEMENT-IYEAR

Hours of instruction

Theory:150hours Credit:7.5

Practical :150 hours Credit: 7.5

This course is designed to assist students to develop a broad understanding of Fundamental Principles, concepts, trends and issues related to education and nursing education. Further, it would provide opportunity to students to understand, appreciate and acquire skills in teaching and evaluation, curriculum development, implementation, maintenance of standards and accreditation of various nursing educational programs.

Objectives

At the end of the course, students will be able to:

1. Explain the aims of education, philosophies, trends in education and health: its impact on nursing education.
2. Describe the teaching learning process.
3. Prepare and utilize various instructional media and methods in teaching learning process.
4. Demonstrate competency in teaching, using various instructional strategies.
5. Critically analyze the existing nursing educational programs, their problems, issues and future trends.
6. Describe the process of curriculum development, and the need and methodology of curriculum change, innovation and integration.
7. Plan and conduct continuing nursing education programs.
8. Critically analyze the existing teacher preparation programs in nursing.
9. Demonstrate skill in guidance and counseling.
10. Describe the problems and issues related to administration of nursing curriculum including selection and organization of clinical experience.
11. Explain the development of standards and accreditation process in nursing education programs.
12. Identify research priorities in nursing education.
13. Discuss various models of collaboration in nursing education and services.
14. Explain the concept, principles, steps, tools and techniques of evaluation
15. Construct, administer and evaluate various tools for assessment of, knowledge, skill, and attitude.

Course Content

Units	Hours		Course Content
	Theory	Practical	
I	10		Introduction: ❑ Education: Definition , aims, concepts, philosophies& their education implications, ❑ Impact of Social, economic, political & technological changes on education: • Professional education • Current trends and issues in education • Educational reforms and National Educational policy, various educational commissions-reports • Trends in development of nursing education in India
II	20	30	Teaching – Learning Process ❑ Concepts of teaching and learning: Definition, theories of teaching and learning, relationship between teaching and learning. ❑ Educational aims and objectives; types, domains, levels, elements and writing of educational objectives ❑ Competency based education (CBE) and outcome-based education(OBE) ❑ Instructional design: Planning and designing the lesson, writing lesson plan: meaning, its need and importance, formats. ❑ Instruction strategies – Lecture, discussion, demonstration, simulation, laboratory, seminar, panel, symposium, problem solving, problem-based learning (PBL), workshop, project, role-play (socio- drama), clinical teaching methods, programmed instruction, self-directed learning (SDL), micro teaching, computer assisted instruction (CAI), computer assisted learning (CAL)
III	10	10	Instructional media and methods ❑ Key concepts in the selection and use of media in education ❑ Developing learning resource material using different media ❑ Instructional aids – types, uses, selection, preparation, utilization. ❑ Teacher's role in procuring and managing instructional Aids – Project and non-projected aids, multimedia, video-tele conferencing etc

IV	10		Measurement and evaluation: ❑ Concept and nature of measurement and evaluation, meaning, process, purposes, problems in evaluation and measurement. ❑ Principles of assessment, formative and summative assessment- internal assessment external examination, advantages and disadvantages. ❑ Criterion and norm referenced evaluation,
V	12	10	Standardized and non-standardized tests: ❑ Meaning, characteristics, objectivity, validity, reliability, usability, norms, construction of tests- • Essay, short answer questions and multiple-choice questions. • Rating scales, checklist, OSCE/OSPE (Objective structured clinical/practical examination) • Differential scales, and summated scales, sociometry, anecdotal record, attitude scale, critical incident technique ❑ Question bank-preparation, validation, moderation by panel, utilization ❑ Developing a system for maintaining confidentiality
VI	8	5	Administration, Scoring and Reporting ❑ Administering a test; scoring, grading versus marks ❑ Objective tests, scoring essay test, methods of scoring, Item analysis.
VII	12	6	Standardized Tools ❑ Tests of intelligence aptitude, interest, personality, achievement, socio-economic status scale, tests for special mental and physical abilities and disabilities.
VIII	5	6	Nursing Educational programs ❑ Perspectives of nursing education: Global and national. ❑ Patterns of nursing education and training programmes in India. Non-university and University programs: ANM, GNM, Basic B.Sc. Nursing, Post Certificate B.Sc. Nursing, M.Sc(N) programs, M.Phil and Ph.D)in Nursing, post basic diploma programs, nurse practitioner

			programs.
IX	12	25	Continuing Education in Nursing ❑ Concepts – Definition, importance, need scope, principles of adult learning, assessments of learning needs, priorities, resources. ❑ Program planning, implementation and evaluation of continuing education programs. ❑ Research in continuing education. ❑ Distance education in nursing.
X	10	10	Curriculum Development ❑ Definition, curriculum determinants, process and steps of curriculum development, Curriculum models, Types and framework. ❑ Formulation of philosophy, objectives, selection and organization of learning experiences; master plan, course plan, unit plan. ❑ Evaluation strategies, process of curriculum change, role of students, faculty, administrators, statutory bodies and other stakeholders. ❑ Equivalency of courses: Transcripts, credit system.
XI	8	4	Teacher preparation ❑ Teacher – roles & responsibilities, functions, characteristics, competencies, qualities, ❑ Preparation of professional teacher ❑ Organizing professional aspects of teacher preparation programs ❑ Evaluation: self and peer ❑ Critical analysis of various programs of teacher education in India.
XII	10	5	Guidance and counseling ❑ Concept, principles, need, difference between guidance and counseling, trends and issues. ❑ Guidance and counseling services: diagnostic and remedial. ❑ Coordination and organization of services. ❑ Techniques of counseling: Interview, casework, characteristics of counselor, problems in counseling. ❑ Professional preparation and training for counseling.

XIII	15	10	Administration of Nursing Curriculum ❑ Role of curriculum coordinator – planning, implementation and evaluation. ❑ Evaluation of educational programs in nursing-course and program. ❑ Factors influencing faculty staff relationship and techniques of working together. ❑ Concept of faculty supervisor (dual) position. ❑ Curriculum research in nursing. ❑ Different models of collaboration between education and service
XIV	10		Management of nursing educational institutions ❑ Planning, organizing, staffing, budgeting, recruitment, discipline, public relation, performance appraisal, welfare services, library services, hostel,
XV	5	5	❑ Development and maintenance of standards and accreditation in nursing education programs. ❑ Role of Indian Nursing Council, State Registration Nursing Councils, Boards and University. ❑ Role of Professional associations and unions.

Course Outcomes (Cos)

CO1	Remember is remembering, recognizing and recalling important concepts. It includes factual information with right and wrong answers.
CO2	Understand is the thought processes of interpreting, exemplifying, classifying, summarizing, inferring, comparing, and explaining of interpreting, translating from one medium to another and describing in one's own words.
CO3	Apply the various aspects of curriculum development,
CO4	Analyze the standardized tools
CO5	Develop curriculum for various nursing programmes
CO6	Create the new teaching learning strategies

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	2	1		2			2	2			2	1	2
CO2						1					1	1	2		2
CO3				1			2			1					2
CO4	2		3			1			1		1		1	2	2
CO5	1		1		3		1	2		2		2			
CO6		2	2	2	2		3	2		2		2	2	2	2

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

Activities:

- Framing philosophy, aims and objectives.
- Lesson Planning.
- Microteaching-2.
- Conduct practice teachings using different teaching strategies -10 (like lecture cum discussion, demonstration- lab method, field trips, seminars, project, role play, panel discussion, clinical method etc)
- Preparation and utilization of instructional Aids using different media.
- Develop course plans, unit plans, rotation plans.
- a continuing education workshops.
- Annotated bibliography.
- Critical evaluation of any nursing education program offered by a selected institution.
- Planning and Organizing field visits
- Educational visits.
- Field visits (INC/SNRC) to get familiar with recognition/registration process.
- Construct, administer and evaluate tools (objective & essay type test, observation checklist, rating scale etc.)

- Observe and practice application of various non-standardized tests (intelligence, Aptitude, Personality, Sociometry, physical & mental disability tests.)

Methods of Teaching

- Lecture cum discussion
- Demonstration/ Return demonstration
- Seminar / Presentations
- Project work
- Field visits
- Workshop

Methods of evaluation

- Tests
- Presentation
- Project work
- Written assignments

Internal Assessment

Techniques	Weightage
Test- (2 tests)	50
Assignment	25
Seminar/presentation	25

	100

Practical – Internal assessment	
Learning resource material	25
Practice Teaching	50
Conduct Workshop	25
/Short Term Course	
Practical – external assessment	
Practice teaching- 1-	50
Preparation/use of learning resource material-1	25
Construction of tests/rotation plan.	25

(19ANP02) ADVANCE NURSING PRACTICE

PLACEMENT-IYEAR

Hours of instruction

Theory:150hours

Credit:7.5

Practical:200hours

Credit:10

Course Description

The course is designed to develop an understanding of concepts and constructs of theoretical basis of advance nursing practice and critically analyze different theories of nursing and other disciplines.

Objectives:

At the end of the course the students will be able to:

1. Appreciate and analyze the development of nursing as a profession.
2. Describe ethical, legal, political and economic aspects of health care delivery and nursing practice.
3. Explain bio- psycho- social dynamics of health, life style and health care delivery system.
4. Discuss concepts, principles, theories, models, approaches relevant to nursing and their application.
5. Describe scope of nursing practice.
6. Provide holistic and competent nursing care following nursing process approach.
7. Identify latest trends in nursing and the basis of advance nursing practice.
8. Perform extended and expanded role of nurse.
9. Describe alternative modalities of nursing care.
10. Describe the concept of quality control in nursing.
11. Identify the scope of nursing research.
12. Use computer in patient care delivery system and nursing practice.
13. Appreciate importance of self-development and professional advancement.

Unit	Hours	Content
I	10	Nursing as a Profession ❑ History of development of nursing profession, characteristics, criteria of the profession, perspective of nursing profession-national, global ❑ Code of ethics (INC), code of professional conduct (INC), autonomy and accountability, assertiveness, visibility of nurses, legal considerations, ❑ Role of regulatory bodies ❑ Professional organizations and unions-self-defense, individual and collective bargaining ❑ Educational preparations, continuing education, career opportunities, professional advancement & role and scope of nursing education. ❑ Role of research, leadership and management. ❑ Quality assurance in nursing (INC). ❑ Futuristic nursing.
II	5	Health care delivery ❑ Health care environment, economics, constraints, planning process, policies, political process vis a vis nursing profession. ❑ Health care delivery system- national, state, district and local level. ❑ Major stakeholders in the health care system-Government, non-govt, Industry and other professionals. ❑ Patterns of nursing care delivery in India. ❑ Health care delivery concerns, national health and family welfare programs, inter-sectoral coordination, role of non-governmental agencies. ❑ Information, education and communication (IEC). ❑ Tele-medicine.
III	10	Genetics ❑ Review of cellular division, mutation and law of inheritance, human genome project, The Genomic era. ❑ Basic concepts of Genes, Chromosomes & DNA. ❑ Approaches to common genetic disorders. ❑ Genetic testing – basis of genetic diagnosis, Pre symptomatic and predisposition testing, Prenatal diagnosis & screening, Ethical, legal & psychosocial issues in genetic testing. ❑ Genetic counseling. ❑ Practical application of genetics in nursing.

IV	10	Epidemiology ❑ Scope, epidemiological approach and methods, ❑ Morbidity, mortality, ❑ Concepts of causation of diseases and their screening, ❑ Application of epidemiology in health care delivery, Health surveillance and health informatics ❑ Role of nurse
V	20	Bio-Psycho social pathology ❑ Pathophysiology and Psychodynamics of disease causation ❑ Life processes, homeostatic mechanism, biological and psycho-social dynamics in causation of disease, lifestyle ❑ Common problems: Oxygen insufficiency, fluid and electrolyte imbalance, nutritional problems, hemorrhage and shock, altered body temperature, unconsciousness, sleep pattern and its disturbances, pain, sensory deprivation. ❑ Treatment aspects: pharmacological and pre- post-operative care aspects, ❑ Cardio pulmonary resuscitation. ❑ End of life Care ❑ Infection prevention (including HIV) and standard safety measures, bio-medical waste management. ❑ Role of nurse- Evidence based nursing practice; Best practices ❑ Innovations in nursing
VI	20	Philosophy and Theories of Nursing ❑ Values, Conceptual models, approaches. ❑ Nursing theories: Nightingale's, Henderson's, Roger's, Peplau's, Abdella's, Lewine's, Orem's, Johnson's, King's, Neuman's, Roy's, Watson's, etc and their applications, ❑ Health belief models, communication and management, etc ❑ Concept of Self health. ❑ Evidence based practice model.
VIII	10	Nursing process approach ❑ Health Assessment- illness status of patients/clients (Individuals, family, community), Identification of health-illness problems, health behaviors, signs and symptoms of clients. ❑ Methods of collection, analysis and utilization of data relevant to nursing process. ❑ Formulation of nursing care plans, health goals, implementation, modification and evaluation of care.

IX	30	Psychological aspects and Human relations ❑ Human behavior, Life processes & growth and development, personality development, defense mechanisms, ❑ Communication, interpersonal relationships, individual and group, group dynamics, and organizational behavior, ❑ Basic human needs, Growth and development, (Conception through preschool, School age through adolescence, Young & middle adult, and Older adult) ❑ Sexuality and sexual health. ❑ Stress and adaptation, crisis and its intervention, ❑ Coping with loss, death and grieving, ❑ Principles and techniques of Counseling.
X	10	Nursing practice ❑ Framework, scope and trends. ❑ Alternative modalities of care, alternative systems of health and complementary therapies. ❑ Extended and expanded role of the nurse, in promotive, preventive, curative and restorative health care delivery system in community ❑ immunity and institutions. ❑ Health promotion and primary healthcare. ❑ Independent practice issues, - Independent nurse-midwifery practitioner. ❑ Collaboration issues and models-within and outside nursing. ❑ Models of Prevention, ❑ Family nursing, Home nursing, ❑ Gender sensitive issues and women empowerment. ❑ Disaster nursing. Geriatric considerations in nursing. ❑ Evidence based nursing practice- Best practices ❑ Trans-cultural nursing.
XI	25	Computer applications for patient care delivery system and nursing practice ❑ Use of computers in teaching, learning, research and nursing practice. ❑ Windows, MS Office: Word, Excel, PowerPoint, ❑ Internet, literature research, ❑ Statistical packages, ❑ Hospital management information system: software's.

Course outcomes (Cos)

CO1	Appreciate and analyze the development of nursing as a profession
CO2	Describe ethical, legal, political and economic aspects of health care delivery and nursing practice.
CO3	Explain bio-psycho-social dynamics of health, life style and health care delivery system
CO4	Discuss concepts, principles, theories, models, approaches relevant to nursing and their application
CO5	Describe scope of nursing practice.
CO6	Provide holistic and competent nursing care following nursing process approach

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1		2	2	2	3	3		2	2	2	2		2		2
CO2		2	2	1				1		2			2		2
CO3	1				2	2				2	1		2		2
CO4	2						2			2	1		2	2	2
CO5	2	2	2	1	2	2						2			2
CO6	2	2	2	1	2				2	2	2	2			2

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

Practical

Clinical posting in the following areas:

Specialty area- in-patient unit	- 2 weeks
Community health center/PHC	- 2 weeks
Emergency/ICU	- 2 weeks

Activities

- Prepare Case studies with nursing process approach and theoretical basis
- Presentation of comparative picture of theories
- Family case- work using model of prevention
- Annotated bibliography
- Report of field visits (5)

Methods of Teaching

- Lecture cum discussion
- Seminar
- Panel discussion
- Debate
- Case Presentations
- Exposure to scientific conferences
- Field visits

Methods of evaluation:

- Tests
- Presentation
- Seminar
- Written assignments

Advance nursing Procedures

Definition, Indication and nursing implications; CPR, TPN, Hemodynamic monitoring, Endotracheal intubation, Tracheostoma, mechanical ventilation, Pacemaker, Hemodialysis, Peritoneal dialysis, LP, BT Pleural and abdominal paracentesis OT techniques, Health assessment, Triage, Pulse oximetry.

Internal Assessment

Techniques	Weightage
Test- (2 tests)	50
Assignment	25
Seminar/presentation	25

	100

(19NRS03)- NURSING RESEARCH AND STATISTICS

PLACEMENT-IYEAR

**Theory:150hours
Practical:100hours**

**Credit:7.5
Credit:5**

PART – A- NURSING RESEARCH

**Theory:100hours
Practical:50hours**

**Credit:5
Credit:2.5**

Course Description

The course is designed to assist the students to acquire an understanding of the research methodology and statistical methods as a basis for identifying research problem, planning and implementing a research plan. It will further enable the students to evaluate research studies and utilize research findings to improve quality of nursing practice, education and management

General Objectives:

At the end of the course, the students will be able to:

1. Define basic research terms and concepts.
2. Review literature utilizing various sources
3. Describe research methodology
4. Develop a research proposal.
5. Conduct a research study.
6. Communicate research findings
7. Utilize research findings
8. Critically evaluate nursing research studies.
9. Write scientific paper for publication.

Content Outline

Unit	Hours		Course Content
	Theory	Practical	
I	10		Introduction: ❑ Methods of acquiring knowledge – problem solving and scientific method. ❑ Research – Definition, characteristics, purposes, kinds of research ❑ Historical Evolution of research in nursing ❑ Basic research terms ❑ Scope of nursing research: areas, problems in nursing, health and social research ❑ Concept of evidence-based practice ❑ Ethics in research ❑ Overview of Research process
II	5	5	Review of Literature ❑ Importance, purposes, sources, criteria for selection of resources and steps in reviewing literature.
III	12		Research Approaches and designs ❑ Type: Quantitative and Qualitative ❑ Historical, survey and experimental – Characteristics, types advantages and disadvantages ❑ Qualitative: Phenomenology, grounded theory, ethnography
IV	10	5	Research problem: ❑ Identification of research problem ❑ Formulation of problem statement and research objectives ❑ Definition of terms ❑ Assumptions and delimitations ❑ Identification of variables ❑ Hypothesis – definition, formulation and types.
V	5	5	Developing theoretical/conceptual framework. ❑ Theories: Nature, characteristics, Purpose and uses ❑ Using, testing and developing conceptual framework, models and theories.

VI	6		Sampling ❑ Population and sample ❑ Factors influencing sampling ❑ Sampling techniques ❑ Sample size ❑ Probability and sampling error ❑ Problems of sampling
VII	20	10	Tools and methods of Data collection: ❑ Concepts of data collection ❑ Data sources, methods/techniques quantitative and qualitative. ❑ Tools for data collection – types, characteristics and their development ❑ Validity and reliability of tools ❑ Procedure for data collection
VIII	5		Implementing research plan ❑ Pilot Study, review research plan (design)., planning for data collection, administration of tool/interventions, collection of data
IX	10	10	Analysis and interpretation of data ❑ Plan for data analysis: quantitative and qualitative ❑ Preparing data for computer analysis and presentation. ❑ Statistical analysis ❑ Interpretation of data ❑ Conclusion and generalizations ❑ Summary and discussion
X	10		Reporting and utilizing research findings: ❑ Communication of research results; oral and written ❑ Writing research report purposes, methods and style- Vancouver, American Psychological Association (APA), Campbell etc ❑ Writing scientific articles for publication: purposes & style
XI	3	8	Critical analysis of research reports and articles
XII	4	7	Developing and presenting a research proposal

Course Outcomes(Cos)

CO1	Remember the research process and significance of statistics
CO2	Understand the research problem and objectives and sampling methods
CO3	Apply or implement the nursing interventions to collect the data
CO4	Analyse and interpret the data using descriptive and inferential statistics
CO5	Develop and evaluate research proposal and prepare the data tabulation.
CO6	Create and conduct a group/individual research project and communicate the research findings.

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	2	2	1		2			2	2	2		2	1	2
CO2		2	2			1					2	1	2		2
CO3		3		1			2			1	2		2		2
CO4	2					1			1		1		2	2	2
CO5	1	2	2	2	2		2	2		2		2			
CO6		2	2	2	2		2	2		2		2	2	2	2

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

Activities:

- Annotated Bibliography of research reports and articles.
- Review of literature of selected topic and reporting
- Formulation of problem statement, objective and hypothesis
- Developing theoretical/conceptual framework.
- Preparation of a sample research tool

- Analysis and interpretation of given data
- Developing and presenting research proposal
- Journal club presentation
- Critical evaluation of selected research studies
- Writing a scientific paper

Method of Teaching

- Lecture-cum-discussion
- Seminar/Presentations
- Project
- Class room exercises
- Journal club

Methods of Evaluation

- Quiz, Tests (Term)
- Assignments/Term paper
- Presentations
- Project work

Internal Assessment

Techniques	Weightage (15 marks)
Term Test (2 tests)	40%
Assignment	20%
Presentation	20%
Project work	20%
Total	100%

PART – B- STATISTICS

Theory :50 hours Credit:2.5

Practical :50 hours Credit:2.5

Course Description

At the end of the course, the students will be able to develop an understanding of the statistical methods and apply them in conducting research studies in nursing.

General Objectives

At the end of the course the students will be able to:

1. Explain the basic concepts related to statistics
2. Describe the scope of statistics in health and nursing
3. Organize, tabulate and present data meaningfully.
4. Use descriptive and inferential statistics to predict results.
5. Draw conclusions of the study and predict statistical significance of the results.
6. Describe vital health statistics and their use in health-related research.
7. Use statistical packages for data analysis

Unit	Hours		Course Content
	Theory	Practical	
I	7	4	Introduction: □ Concepts, types, significance and scope of statistics, meaning of data, □ sample, parameter □ type and levels of data and their measurement □ Organization and presentation of data – Tabulation of data; □ Frequency distribution □ Graphical and tabular presentations.
II	4	4	Measures of central tendency: □ Mean, Median, Mode
III	4	5	Measures of variability; □ Range, Percentiles, average deviation, quartile

			deviation, standard deviation
IV	3	2	Normal Distribution: ☐ Probability, characteristics and application of normal probability curve; sampling error.
V	6	8	Measures of relationship: ☐ Correlation – need and meaning ☐ Rank order correlation; ☐ Scatter diagram method ☐ Product moment correlation ☐ Simple linear regression analysis and prediction.
VI	5	2	Designs and meaning: ☐ Experimental designs ☐ Comparison in pairs, randomized block design, Latin squares.
VII	8	10	Significance of Statistic and Significance of difference between two Statistics (Testing hypothesis) ☐ Non parametric test – Chi-square test, Sign, median test, Mann Whitney test. ☐ Parametric test – ‘t’ test, ANOVA, MANOVA, ANCOVA
VIII	5	5	Use of statistical methods in psychology and education: ☐ Scaling–Z Score, Z Scaling ☐ Standard Score and T Score ☐ Reliability of test Scores: test-retest method, parallel forms, split half method.
IX	4	2	Application of statistics in health: ☐ Ratios, Rates, Trends ☐ Vital health statistics – Birth and death rates. ☐ Measures related to fertility, morbidity and mortality
X	4	8	Use of Computers for data analysis ☐ Use of statistical package.

Activities

- Exercises on organization and tabulation of data,
- Graphical and tabular presentation of data
- Calculation of descriptive and inferential statistics (chi square, t-test, correlation)
- Practice in using statistical package
- Computing vital health statistics

Methods of Teaching:

- Lecture-cum-discussion
- Demonstration – on data organization, tabulation, calculation of statistics, use of statistical package, Classroom exercises, organization and tabulation of data,
- Computing Descriptive and inferential statistics; vital and health statistics and use of computer for data entry and analysis using statistical package.

Methods of Evaluation

- Test, Classroom statistical exercises.

Internal Assessment***Techniques******Weightage 10 marks***

Test – (2 tests)

100%

(19OBGN04)- CLINICAL SPECIALITY-I OBSTETRIC AND GYNAECOLOGICAL NURSING

PLACEMENT-IYEAR

Theory:150hours

Credit:7.5

Practical:650hours

Credit:32.5

Course Description

This course is designed to assist students in developing expertise and in- depth understanding in the field of Obstetric and Gynaecological Nursing. It will help students to appreciate the client as a holistic individual and develop skill to function as an independent midwifery practitioner. It will further enable the student to function as educator, manager, and researcher in the field of Obstetric and Gynaecological nursing

Objectives

At the end of the course the students will be able to:

2. Appreciate the trends in the field midwifery obstetrics and gynaecology as a speciality
3. Describe the population dynamics and indicators of maternal and child health
4. Describe the concepts of biophysical, psychological and spiritual aspects of normal pregnancy, labor and puerperium.
5. Provide comprehensive nursing care to women during reproductive period and newborns.
6. Integrate the concepts of family centered nursing care and nursing process approach in obstetric and gynecological nursing.
7. Identify and analyze the deviations from normal birth process and refer appropriately.
8. Describe the pharmacological agents, their effects during pregnancy, childbirth, puerperium, lactation and the role of nurse
9. Counsel adolescents, women and families on issues pertaining to pregnancy, child birth and lactation
10. Describe the role of various types of complementary and alternative therapies in obstetric and gynecological nursing.
11. Incorporate evidence-based nursing practice and identify the areas of research in the field of obstetric and gynecological nursing.
12. Describe the recent advancement in contraceptive technology and birth control measures
13. Appreciate the legal and ethical issues pertaining to obstetric and gynaecological nursing

Course Content

Units	Hours	Content
I	10	Introduction ❑ Historical and contemporary perspectives ❑ Epidemiological aspects of maternal and child health ❑ Magnitude of maternal and child health problems ❑ Issues of maternal and child health: Age, Gender, Sexuality, psycho Socio cultural factors ❑ Preventive obstetrics ❑ National health and family welfare programmes related to maternal and child health: health care delivery system- National Rural health mission, Role of NGO's ❑ Theories, models and approaches applied to midwifery practice ❑ Role and scope of midwifery practice: Independent Nurse midwifery practitioner ❑ Legal and Ethical issues: Code of ethics and standards of midwifery practice, standing orders ❑ Evidence based midwifery practice ❑ Research priorities in obstetric and gynecological nursing.
II	15	Human reproduction ❑ Review of anatomy and physiology of human reproductive system: male and female ❑ Hormonal cycles ❑ Embryology ❑ Genetics, teratology and counseling ❑ Clinical implications
III	25	Pregnancy ❑ Maternal adaptation: Physiological, psychosocial • Assessment – Maternal and foetal measures Maternal measures: History taking, examination- General, physical and obstetrical measure, identification of high risk, • Foetal measure- clinical parameters, biochemical- human estriol, Maternal Serum Alfa Feto Protein, Acetyl Choline esterase (AchE), Triple Test Amniocentesis, Cordocentesis, chorionic villus sampling (CVS)), • Biophysical- (USIMAGING, Foetal movement count, Ultra Sonography, Cardiotocography, cardiotomography, Non-Stress Test (NST), Contraction stress test (CST), amnioscopy, foetoscopy,

		• Radiological examination, ❑ Interpretation of diagnostic tests and nursing implications ❑ Nursing management of the pregnant women, minor disorders of pregnancy and management, preparation for child birth and parenthood, importance of institutional delivery, choice of birth setting, importance and mobilizing of transportation, prenatal counseling, role of nurse and crisis intervention, identification of high-risk pregnancy and refer ❑ Alternative/complementary therapies
IV	25	Normal Labour and nursing management: ❑ Essential factors of labour ❑ Stages and onset First stage: Physiology of normal labour • Use of partograph: Principles, use and critical analysis, evidence-based studies • Analgesia and anaesthesia in labour • Nursing management Second stage • Physiology, intrapartum monitoring • Nursing management. • Resuscitation, immediate newborn care and initiate breast feeding (Guidelines of National neonatology forum of India) Third stage • Physiology and nursing management Fourth stage – Observation, critical analysis and Nursing management. • Various child birth practice: water birth, position change etc • Evidence based practice in relation to labour intervention Role of nurse midwifery practitioner • Alternative/complementary therapies
V	20	Normal puerperium and nursing management ❑ Physiology of puerperium ❑ Physiology of lactation, lactation management, exclusive breast feeding, Baby friendly hospital initiative (BFHI) ❑ Assessment of postnatal women. ❑ Minor discomforts and complications of puerperium ❑ Management of mothers during puerperium: Postnatal exercises Rooming in, bonding, warm chain ❑ Evidence based studies

		Role of nurse midwifery practitioner Alternative/complementarytherapies
VI	20	Normal Newborn - Physiology and characteristics of normalnewborn - Physical and Behavioral assessment ofnewborn - Needs ofnewborn - Essential newborn care: Exclusive breast feeding, Immunization, Hygiene measures, Newbornnutrition - Organization of neonatal care, services (Levels), transport, neonatal intensive care unit, organization and management of nursing services inNICU - Observation and care ofnewborn - Parentingprocess
VII	10	Pharmoco dynamics in obstetrics - Drugs used in pregnancy, labour, post-partum and newborn - Calculation of drug dose andadministration - Effects of drugsused - Anaesthesia and analgesia inobstetrics - Rolesandresponsibilitiesofmidwiferynursepractitioner - Standing orders and protocols and use of selected lifesaving drugs and interventions of obstetric emergencies approved by the MOHFW
VIII	10	Family welfare services - Populationdynamics - Demography trends: vital statistics, calculation of indicators especially maternal and neonatal mortality rates and problems and other health problems - Recent advancement in contraceptive technology - Role of nurses in family welfare programmes in all settings - Role of independent nurse midwiferypractitioner - Family lifeeducation - Evidence basedstudies - Information, Education and Communication(IEC) - Management information and evaluation system(MIES) - Teaching and supervision of health team members

IX	5	Infertility ❑ Primary and secondary causes ❑ Diagnostic procedures ❑ Counseling: ethical and legal aspects of assisted reproductive technology (ART) ❑ Recent advancement in infertility management. ❑ Adoption procedures Role of nurses in infertility management.
X	5	Menopause ❑ Physiological, psychological and social aspects ❑ Hormone Replacement Therapy ❑ Surgical menopause ❑ Counseling and guidance Role of midwifery nurse practitioner
XI	5	Abortion ❑ Types, causes ❑ Legislations, Clinical rights and professional responsibility ❑ Abortion procedures ❑ Complications ❑ Nursing management Role of midwifery nurse practitioner

Course Outcomes (Cos)- Clinical Speciality-I (Obstetrics & Gynaecology)

CO1	Remember the basic concepts of Midwifery , Obstetrics and Gynaecological Nursing.
CO2	Understand of physiological changes during pregnancy, labour and puerperium
CO3	Apply recent advancements in infertility management and birth control measures
CO4	Analyze the deviations from normal birth process and take judicious judgement to handle the emergency conditions to save the life of the mother and baby,
CO5	Evaluate the areas of research in obstetrics and Gynaecological Nursing and integrate best evidence in Nursing practice.
CO6	Formulate/ Create the new standards/protocol for Nursing Management for Obstetrical Emergencies.

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2				1	1		1	1	1	1	1		1	1
CO2						2						1		1	1
CO3	1	1	1			1		1	3	1	1	1		2	1
CO4	1	1	2			1	1	1	3	1	1	1			1
CO5										1					1
CO6	1	1	1		1	1	1	1		1	1	1	1	1	1

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

Practical

Total = 660 Hours1 week = 30 Hours

S.No.	Deptt./Unit	No. of Week	Total Hours
1	Anetenatal Wards & OPDs	4	120
2	Labour Room	5	150
3	Postnatal Ward	2	60
4	Family Planning Clinics	2	60
5	PHC/Rural maternity settings	4	120
6	Gynae	2	60
7	Maternity OT	2	60
8	NICU	1	30
	Total	22 Weeks	660Hours

Procedures observed

- Diagnostic investigations: amniocentesis, chordocentecis, chorionicvillisampling
- Infertilitymanagement: artificial reproduction: artificial insemination, invitro fertilization, and relatedprocedures

Procedures assisted

- Medical termination ofpregnancy,

Procedures performed

- Antenatalassessment-20
- Postnatalassessment-20
- Assessment during labour: use of partograph -20
- Per vaginalexamination-20
- Conduct of normaldelivery-20
- Episiotomy andsuturing-10
- Setting up of deliveryareas
- Insertion of intra uterine devices(copper T)

Others

- Identification of high-risk women andreferral
- Health education: to women and theirfamilies
- Motivation of couples for plannedparenthood

ELECTIVE COURSE

(19ECYBC01)- Yoga, Breathing & Relaxation of Child Birth

Introduction

The main emphasis of the course is developing personality and managing stress among mothers through yogic activities. Developing physical fitness, emotional stability, concentration and mental development have also been considered while developing this material. These techniques utilize practices that aim to reduce stress and reduce the perception of pain. It is important to examine if these therapies work and are safe, to enable women to make informed decisions about their care.

COURSE OBJECTIVES

1. To develop an understanding of yogic practices and apply this understanding accordingly in one's life and living
2. To examine the effects of mind-body relaxation techniques for pain management in labour on maternal and neonatal well-being during and after labour.
3. To develop a healthy habit and lifestyle.
4. To develop humane values
5. To develop physical, emotional and mental health through yogic activities.

Unit	Learning Objective	Content	Hrs
I	Explain the importance of yoga in child birth	Foundation Of Yoga & Child Birth: -Psychology and physiology of yoga -Concepts of yoga Yoga philosophy, lifestyle and ethics -Introduction to yogic techniques in pregnancy -Yoga in labor and postpartum -Yogic lifestyle: -Yogic and ayurvedic diet in pregnancy -Mantra chanting during pregnancy -Yoga for labour	T (10) P (3)
II	Describe the various methods of breathing exercises during child labour.	Breathing Techniques For Labour: Breathing Techniques for Childbirth -Topic Overview	T (10) P (5)

		-Bellybreathing -Pant-pant-blow breathing -Types of Delivery Breathing -Techniques -Organizing breath. -Slow breathing -Light, accelerated breathing. -Variable breathing. -Expulsive breathing. Comfort during labor	
III	Discuss the various relaxation techniques followed during the child birth process.	Relaxation techniques for pain management in labour Music Meditations Audioanalgesia Mindfulness Grunting techniques Evidence based studies Issues and importance	T (10) P (2)

Teaching- Learning Strategies

1. Lecture cum Discussion
2. Seminar
3. Lab – yoga and relaxation techniques particles
4. Demonstration
5. Assignments

Assessment Techniques of each topic of the course

S.No	Topic	Assessment Techniques
1.	Foundation Of Yoga & Child Birth	Short answer
2.	Breathing techniques For labour:	Short answers, Descriptive type, Antenatal Assessment and demonstration of breathing exercises.
3.	Relaxation Techniques For Pain Management In Labour	Descriptive type, Health Education Return demonstration

(19ECCI02)- Cervical Insufficiency

Introduction of the Course

Introduction: This course reviews the indications, contraindications, and techniques for performing a cervical cerclage and highlights the role of the interprofessional team in evaluating, treating, and managing patients who are candidates for this procedure.

Course Objective

1. Describe the risk factors for cervical insufficiency.
2. Identify the indications for cervical cerclage placement.
3. Outline the common methods of a cervical cerclage procedure
4. To develop a healthy child birth process.
5. To develop a healthy habit and lifestyle.

Unit	Learning Objective	Content	Hrs
I	Describe the risk factors for cervical insufficiency.	Overview Cervical Insufficiency and Short Cervix: Overview Anatomy and physiology of reproductive system Risk factors Cervical trauma Race Congenital conditions	T (5)
II	Outline the common methods of a cervical cerclage procedure	Cervical cerclage procedures Items under observation: Appropriate patient selection Ensuring patient and accompanying partner understand procedure Appropriate transfer of patient to theatre and positioning Ensuring adequate analgesia Shows knowledge of and assembles required instruments Preoperative swab, instrument and needle check	T (15)

		Systematic examination: cervical length, dilatation Use of foley catheter balloon if appropriate Appropriate choice of suture Appropriate handling of the cervix Appropriate insertion of suture Appropriate placement of knot Clear documentation including postoperative plan	
III	Identify the indications for cervical cerclage placement	Incompetent Cervix • Symptoms and Causes • Diagnosis and Tests • Complications • Management and Treatment • Prevention • Outlook / Prognosis • Living With	T (5)
IV	Discuss the various management techniques for cervical insufficiency	Management of cervical insufficiency: • transvaginal cervical cerclage is the McDonald method. • The Shirodkar technique • Having a cervical stitch • Debriefing of patient and partner	T (5)

Teaching- Learning Strategies

1. Lecture cum Discussion
2. Seminar
3. Demonstration
4. Assignments

Assessment Techniques of each topic of the course

S.No	Topic	Assessment Techniques
1.	Overview Cervical Insufficiency and Short Cervix:	Short answer
2.	Cervical cerclage procedures	Short answers, Descriptive type, demonstration of cerclage procedures
3.	Incompetent Cervix	Descriptive type, Health Education Return demonstration
4.	Management of cervical insufficiency:	Essay type and short answers

(19ECelia03) - ETHICAL AND LEGAL ISSUES IN ABORTION

Introduction

Introduction: This course is designed for students to appreciate the concepts of legal and ethical aspects in abortion. It helps them to acquire knowledge and skills in rendering nursing care to normal and high risk women in hospitals and community settings. It also helps to develop skills in managing normal and high risk women.

Course objectives and summary:

1. Identify the legal aspects in abortion
2. Discuss the ethical issues in abortion
3. Describe the methods of Abortion
4. Discuss the Abortion law in India
5. Explain the policy and programmes of Government
6. Enumerate about Safe Abortion and Gender biased sex selection

Unit	Learning Objectives	Content	Time (Hrs)
1	Identify the legal aspects in Abortion	Introduction to comprehensive Abortion care Abortion, Comprehensive Abortion Care (CAC), MTP amendment 2021 rules and regulations, Abortion law in India, Shah committee on Abortion, Abortion Incidence in India.	T (5)

II	Discuss the ethical issues in abortion	Ethical issues related to abortion Right to Abortion Socio-cultural aspects concerning Abortion, Indian penal code on abortion Ethical issues pertaining to abortions.	T (7)
III	Describe the methods of Abortion	Methods of Abortion Abortion, methods of Abortion, Medical methods Surgical methods Combined methods	T (5) P (5)
IV	Discuss the Abortion law in India	Laws related to Abortion Indian Penal Code, 1860) Medical Termination of Pregnancy Act The Medical Termination of Pregnancy (MTP) Act, 1971 The MTP Regulations, 2003 MTP Act, Amendments, 2002 MTP Rules, 2003 Proposed Amendments to the MTP Act, 2014	T (8)
V	Explain the policy and programmes of Government	Comprehensive Abortion Care – Service Delivery and Training Guidelines 2010 CAC training package: Operational guidelines on CAC services Pre-Conception and Pre-Natal Diagnostic Techniques (PC&PNDT) Act 2012	T (3) P (5)
VI	Enumerate about Safe Abortion and Gender biased sex selection	Safe abortion & Gender bias Legal Protection Of Access To Abortion - Exceptions In Abortion Law Increasing Access To Legal *Abortion Services For Women Pratigya Campaign For Gender Equality And Safe Abortion	T (3)

Teaching- Learning Strategies

1. Lecture cum Discussion
2. Seminar
3. Demonstration

4. Assignments

Assessment Techniques of each topic of the course

S.No	Topic	Assessment Techniques
1.	Introduction to comprehensive Abortion care	Short answers, Descriptive type
2.	Ethical issues related to abortion	Assignment, Short answers.
3.	Methods of Abortion	Presentations on various methods of abortion

(19ECAG04)- ADOLESCENT GYNAECOLOGY

Introduction

Introduction: This course is designed for students to Identify the anatomic changes of the genital tract and breast that occur at different ages, Characterize the hormonal changes that occur as part of normal puberty, Summarize the principal disorders or conditions experienced by adolescent patients and the special implications for diagnosis and management of complex diseases as they pertain to adolescents.

Course objectives and summary:

1. To describe and explain normal growth and development in children and youngsters
2. To the most important physical, psychological, and social risk factors for health challenges in childhood, adolescence and in the family pathogenesis and patho-physiology of common and important diseases in adolescent.
3. How to organize and coordinate health services for children and adolescents with chronic conditions and disabilities in the community, and the transition to adult specialist services
4. legal framework that governs children's rights to health care, and regulations involving patient autonomy in children and adolescents
5. Signs and symptoms of child neglect and abuse and the legislation for reporting cases
6. challenges to child health in a global perspective

Unit	Learning Objectives	Content	Time (Hrs)
1	Recognize the normal and abnormal puberty.	Normal And Abnormal Puberty • Ovarian and testicular function during infancy, childhood and adolescence	T - (3)

		• Initiation and tempo of normal puberty • Assessment of stage of puberty (male and female) • Causes and management of precocious puberty and delayed puberty (female only)s	
2	Describe the diagnosis and management of Adolescent problems	Adolescent Problems: -Menstrual disorders and pelvic pain in adolescence • Dysmenorrhoea in teenagers – causes, diagnosis and management • Other causes of pelvic pain • Menorrhagia – investigation and management • Management of ovarian cysts Teenage pregnancy • The teenage pregnancy strategy • Outcome and complications of teenage pregnancy • Specialist services • Teenage contraception Which combined oral contraceptive pill? • Role of depot progestagens • Barrier methods When should an IUCD/IUS be used?	T - (8)
3	Describe the disorders of development	Disorders Of Development: Normal embryology and genetics of sexual differentiation • Conditions of abnormal uterine and vaginal development • Rokitansky syndrome • Androgen insensitivity syndrome	T - (5)

		• Congenital adrenal hyperplasia Making the correct diagnosis: • Assessment of ambiguous genitalia at birth • Imaging modalities • Endocrine assessments • Regional networks	
4	Explain in detail about the common childhood gynecological problems	Common Childhood Gynecological Problems How to take a history and perform appropriate clinical examination of the child • Vaginal bleeding • Vulvovaginitis • Labial adhesions • Normal and abnormal puberty Ovarian and testicular function during infancy, childhood and adolescence • Initiation and tempo of normal puberty • Assessment of stage of puberty (male and female) • Causes and management of precocious puberty and delayed puberty (female only)	T (8) P (5)
5	Describe about the sexual health and child protection	Sexual Health And Child Protection • Sexual abuse, child protection training • Incidence of child sexual abuse • Diagnosis and management • Who should be involved? • Understanding the law • Sexually Transmitted Infections And HPV Vaccination	T - (3) P – (5)

		• Prevalence of STIs • Screening • Treatment • Prevention strategies, including HPV vaccination	
6	Enumerate the psychological support for adolescents	Psychological Support For Girls And Families • Psychology of intersex conditions • Understanding and coping with the diagnosis • How health professionals and parents should disclose diagnosis • Support for timing of surgery	

Teaching- Learning Strategies

1. Lecture cum Discussion
2. Seminar
3. Health education
4. Demonstration
5. Assignments

Assessment Techniques of each topic of the course

S.No	Topic	Assessment Techniques
1.	Normal And Abnormal Puberty	Short answer
2.	Adolescent Problems: -Menstrual disorders and pelvic pain in adolescence	Assignment, Short answers
3.	Disorders Of Development:	Descriptive type, Antenatal assessment
4.	Common Childhood Gynecological Problems	Short answers, seminars, assignments

5.	Sexual Health And Child Protection	Presentations on various Laws & Acts, Health Education Family planning services.
6.	Psychological Support For Girls And Families	Health Education, Recording, Short answers.

(19ECIVF05) - IVF

Introduction

Introduction: this course provides a one to one comprehensive training in the clinical management and laboratory practices of IVF. This course provides a advanced knowledge and skills in all aspects of micro manipulation for IVF procedures.

Course objectives

1. This course provides a one to one training to develop knowledge and skills in all aspects of micro manipulation for IVF.
2. It provides an high training complexity in a laboratory
3. It provides customized training in the clinical management and laboratory practices of IVF.
4. Explain the policy and programmes of Government
5. Enumerate about Safe Practices and ethical issues in IVF

Unit	Learning Objectives	Content	Time (Hrs)
I	Explain the basic science of embryology	Basic Sciences: ➤ Embryology laboratory: ➤ Culture media ➤ Egg identification ➤ Insemination ➤ Fertilization and cleavage check. ➤ Embryo transfer technique ➤ Blastocyst culture Embryo hatching ➤ Techniques of intra-cytoplasmic sperm injection	T(5)
II	Discuss briefly about the reproductive endocrinology	Reproductive Endocrinology including • Laboratory techniques Attain expertise: In the use of ovulation inducing agents and hormonal control of the menstrual cycle. • Follicular recruitment and retrieval procedures including GIFT. • Understand and be able to manage OHSS.	T(5)

		• Trans Vaginal Ultrasonography with particular reference to follicular monitoring and early pregnancy scanning. • Andrology: with reference, maintenance and trouble shooting	
III	Describe the various methods of laboratory technology in IVF	Laboratory Technology: • Familiarity with Laboratory equipment, • Maintenance and trouble shooting. • Detailed knowledge of ART procedures carried out like semen preparation, • oocyte identification and grading • , embryo grading, • micromanipulation, • cell culture, • freezing techniques etc.	T(5)
IV	Discuss the clinical embryology.	Clinical Embryology. • Principles and practice of semen analysis and cryopreservation of semen. • Cytology of mammalian and human oocyte to identify stages of oocyte maturation accurately. • All aspects of embryology including developmental Etiology. • Cell biological techniques used in cell and tissue culture. • Molecular biology and genetics of human reproduction. • Micromanipulation of sperm and oocytes for carrying out ICSI and single-cell biopsies of embryos for preimplantation genetic diagnosis. • Principles and functioning of all the equipment used in the laboratory. • In vitro fertilization of oocytes after processing the gametes • Principles and practice of embryo freezing.	T (8) P (5)
V	Enlist the various lab techniques in IVF	Lab Techniques–Principles&Instrumentation • Basic instrumentation – pH meter; Centrifuges; Microscopes; ElectrophoresisGenetic manipulation / Nucleic acid techniques – DNA & RNA isolation; PCR etc.SDS-PAGE&Western blotting	T (5) P (5)

		- Cellbiologytechniques– Cellculture;Transfectionetc.Immunotechniques– RIA; ELISA;CMIA - Molecular Cytogenetics techniques – FISH; Karyotyping; Microarray; PRINS; QF- PCR;ArrayCGH; MLPA etc	
VI	Explain about the ethics and laws in IVF.	Ethics;Regulatory laws&Guidelines - Ethical practices - National and international guidelines for IVF - Laws relating gametes and surrogacy.	T(2)

Teaching- Learning Strategies

1. Lecture cum Discussion
2. Seminar
3. Demonstration
4. Assignments

Assessment Techniques of each topic of the course

S.No	Topic	Assessment Techniques
1.	Basic Sciences:	Short answers, Descriptive type
2.	Reproductive Endocrinology	Assignment, Short answers.
3.	Laboratory Technology:	Presentations on various methods of IVF
4.	Clinical Embryology.	Short answers, Health education.
5.	LabTechniques– Principles&Instrumentation	Descriptive type and Essay answers

(19NM05)- NURSING MANAGEMENT

PLACEMENT-II YEAR

Hours of instruction

Theory:150hours Credit:7.5

Practical:150hours

Credit:7.5

Course Description

This course is designed to assist students to develop a broad understanding of Principles, concepts, trends and issues related to nursing management. Further, it would provide opportunity to students to understand, appreciate and acquire skills in planning, supervision and management of nursing services at different levels to provide quality nursing services.

Objectives

At the end of the course, students will be able to:

1. Describe the philosophy and objectives of the health care institutions at various levels.
2. Identify trends and issues in nursing
3. Discuss the public administration, health care administration vis a vis nursing administration
4. Describe the principles of administration applied to nursing
5. Explain the organization of health and nursing services at the various levels/institutions.
6. Collaborate and co-ordinate with various agencies by using multi-sectoral approach
7. Discuss the planning, supervision and management of nursing workforce for various health care settings.
8. Discuss various collaborative models between nursing education and nursing service to improve the quality of nursing care
9. Identify and analyze legal and ethical issues in nursing administration
10. Describe the process of quality assurance in nursing services.
11. Demonstrate leadership in nursing at various levels

Course Content

Unit	Hours	Content
I	10	Introduction ❑ Philosophy, purpose, elements, principles and scope of administration ❑ Indian Constitution, Indian Administrative system vis a vis health care delivery system: National, State and Local ❑ Organization and functions of nursing services and education at National, State, District and institutions: Hospital and Community ❑ Planning process: Five-year plans, Various Committee Reports on health, State and National Health policies, national population policy, national policy on AYUSH and plans,
II	10	Management ❑ Functions of administration ❑ Planning and control ❑ Co-ordination and delegation ❑ Decision making – decentralization basic goals of decentralization. ❑ Concept of management Nursing management ❑ Concept, types, principles and techniques ❑ Vision and Mission Statements ❑ Philosophy, aims and objective ❑ Current trends and issues in Nursing Administration ❑ Theories and models Application to nursing service and education
III	15	Planning ❑ Planning process: Concept, Principles, Institutional policies ❑ Mission, philosophy, objectives, ❑ Strategic planning ❑ Operational plans ❑ Management plans ❑ Programme evaluation and review technique (PERT), Gantt chart, Management by objectives (MBO) ❑ Planning new venture ❑ Planning for change ❑ Innovations in nursing Application to nursing service and education

IV	15	Organization ❑ Concept, principles, objectives, Types and theories, Minimum requirements for organization, Developing an organizational Structure, levels, organizational Effectiveness and organizational Climate, ❑ Organizing nursing services and patient care: Methods of patient assignment- Advantages and disadvantages, primary nursing care, ❑ Planning and Organizing: hospital, unit and ancillary services (specifically central sterile supply department, laundry, kitchen, laboratory services, emergency etc) ❑ Disaster management: plan, resources, drill, etc Application to nursing service and education
V	15	Human Resource for health ❑ Staffing • Philosophy • Norms: Staff inspection unit (SIU), Bajaj Committee, High power committee, Indian nursing council (INC) • Estimation of nursing staff requirement- activity analysis • Various research studies ❑ Recruitment: credentialing, selection, placement, promotion ❑ Retention ❑ Personnel policies ❑ Termination ❑ Staff development programme ❑ Duties and responsibilities of various category of nursing personnel Applications to nursing service and education
VI	15	Directing ❑ Roles and functions ❑ Motivation: Intrinsic, extrinsic, Creating motivating climate, Motivational theories ❑ Communication: process, types, strategies, Interpersonal communication, channels, barriers, problems, Confidentiality, Public relations ❑ Delegation; common delegation errors ❑ Managing conflict: process, management, negotiation, consensus ❑ Collective bargaining: health care labour laws, unions,

		professional associations, role of nurse manager ❑ Occupational health and safety Application to nursing service and education
VII	10	Material management ❑ Concepts, principles and procedures ❑ Planning and procurement procedures: Specifications ❑ ABC analysis, ❑ VED (very important and essential daily use) analysis ❑ Planning equipments and supplies for nursing care: unit and hospital ❑ Inventory control ❑ Condemnation Application to nursing service and education
VIII	15	Controlling ❑ Quality assurance – Continuous Quality Improvement • Standards • Models • Nursing audit ❑ Performance appraisal: Tools, confidential reports, formats, Management, interviews ❑ Supervision and management: concepts and principles ❑ Discipline: service rules, self-discipline, constructive versus destructive discipline, problem employees, disciplinary proceedings- enquiry etc ❑ Self-evaluation or peer evaluation, patient satisfaction, utilization review Application to nursing service and education
IX	15	Fiscal planning ❑ Steps ❑ Plan and non-plan, zero budgeting, mid-term appraisal, capital and revenue ❑ Budget estimate, revised estimate, performance budget ❑ Audit ❑ Cost effectiveness ❑ Cost accounting ❑ Critical pathways ❑ Health care reforms ❑ Health economics ❑ Health insurance ❑ Budgeting for various units and levels Application to nursing service and education

X	10	Nursing informatics ❑ Trends ❑ General purpose ❑ Use of computers in hospital and community ❑ Patient records system ❑ Nursing records and reports ❑ Management information and evaluation system (MIES) ❑ E-nursing, Telemedicine, telenursing ❑ Electronic medical records
XI	10	Leadership ❑ Concepts, Types, Theories ❑ Styles ❑ Manager behavior ❑ Leader behavior ❑ Effective leader: Characteristics, skills ❑ Group dynamics ❑ Power and politics ❑ lobbying ❑ Critical thinking and decision making ❑ Stress management Applications to nursing service and education
XII	10	Legal and ethical issues Laws and ethics ❑ Ethical committee ❑ Code of ethics and professional conduct ❑ Legal system: Types of law, tort law, and liabilities ❑ Legal issues in nursing: negligence, malpractice, invasion of privacy, defamation of character ❑ Patient care issues, management issues, employment issues ❑ Medico legal issues ❑ Nursing regulatory mechanisms: licensure, renewal, accreditation ❑ Patients' rights, Consumer protection act (CPA) ❑ Rights of special groups: children, women, HIV, handicap, ageing ❑ Professional responsibility and accountability ❑ Infection control ❑ Standard safety measures

COURSE OUTCOMES (Cos)

CO1	Describe the philosophy and objectives of the Health care institution at various level
CO2	Identify trends and issues in Nursing
CO3	Discuss the public administration, health care administration vis a vis Nursing administration
CO4	Describe the Principles of administration applied to Nursing
CO5	Explain the organization of Health and Nursing services at the various level
CO6	Identify and analyse legal and ethical issues in Nursing Administration

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	2	2	1		2			2	2	2		2	1	2
CO2		2	2			1					2	1	2		2
CO3		3		1			2			1	2		2		2
CO4	2					1			1		1		2	2	2
CO5	1	2	2	2	2		2	2		2		2			
CO6		2	2	2	2		2	2		2		2	2	2	2

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

PRACTICALS

- Prepare prototype personal files for staff nurses, faculty and cumulative records
- Preparation of budget estimate, Revised estimate and performance budget
- Plan and conduct staff development programme
- Preparation of Organization Chart
- Developing nursing standards/protocols for various units
- Design a layout plan for specialty units /hospital, community and educational institutions
- Preparation of job description of various categories of nursing personnel
- Prepare a list of equipment and supplies for specialty units
- Assess and prepare staffing requirement for hospitals, community and educational institutions
- Plan of action for recruitment process
- Prepare a vision and mission statement for hospital, community and educational institutions
- Prepare a plan of action for performance appraisal
- Identify the problems of the specialty units and develop plan of action by using problem solving approach
- Plan a duty roster for specialty units/hospital, community and educational institutions
- Prepare: anecdotes, incident reports, day and night reports, handing and taking over reports, enquiry reports, nurses notes, Official letters, curriculum vitae, presentation etc
- Prepare a plan for disaster management
- Groupwork
- Field appraisal report

(19OBGN06)- CLINICAL SPECIALITY-II
OBSTETRIC AND GYNAECOLOGICAL NURSING

PLACEMENT-IIYEAR Theory:150hours

Credit:7.5

Practical:950hours

Credit:47.5

Course Description

This course is designed to assist the student in developing expertise and in-depth understanding in the field of Obstetric and gynecological Nursing. It will help the student to develop advanced nursing skills for nursing interventions in various obstetrical and gynecological conditions. It will further enable the students to function as midwifery nurse practitioner/specialist, educator, manager and researcher in the field of obstetric and gynecological nursing.

Objectives

At the end of the course, the student will be able to:

- Describe the epidemiology, etiology, pathophysiology and diagnostic assessment of women with obstetric and gynecological conditions
- Perform physical, psychosocial, cultural & spiritual assessment
- Demonstrate competence in caring for women with obstetrical and gynecological conditions
- Demonstrate competence in caring for high-risk newborn.
- Identify and Manage obstetrical and neonatal emergencies as per protocol.
- Practice infection control measures
- Utilize recent technology and various diagnostic, therapeutic modalities in the management of obstetrical, gynecological and neonatal care.
- Demonstrate skill in handling various equipment's/gadgets used for obstetrical, gynecological and neonatal care
- Teach and supervise nurses and allied healthworkers.
- Design layout of specialty units of obstetrics and gynecology
- Develop standards for obstetrical and gynecological nursing practice.
- Counsel women and families
- Incorporate evidence-based nursing practice and identify the areas of research in the field of obstetrical and gynecological nursing
- Function as independent midwifery nurse practitioner

Contents Outline

Unit	Hours	Content
I	25	Management of problems of women during pregnancy ❑ Risk approach of obstetrical nursing care, concept & goals. ❑ Screening of high-risk pregnancy, newer modalities of diagnosis. ❑ Nursing Management of Pregnancies at risk-due to obstetrical complication • Pernicious Vomiting. • Bleeding in early pregnancy, abortion, ectopic pregnancy, and gestational trophoblastic diseases. • Hemorrhage during late pregnancy, ante partum hemorrhage, Placenta previa, abruptio placenta. • Hypertensive disorders in pregnancy, pre-eclampsia, eclampsia, Hemolysis Elevated liver enzyme Low Platelet count (HELLP) • Iso-immune diseases. Rh and ABO incompatibility • Hematological problems in pregnancy. • Hydramnios-oligohydramnios • Prolonged pregnancy- post term, postmaturity. • Multiple pregnancies. • Intra uterine infection & pain during pregnancy. • Intra Uterine Growth Retardation (IUGR), Premature Rupture of Membrane (PROM), intra uterine death
II		Pregnancies at risk-due to pre-existing health problems ❑ Metabolic conditions. ❑ Anemia and nutritional deficiencies ❑ Hepatitis ❑ Cardio-vascular disease. ❑ Thyroid diseases. ❑ Epilepsy. ❑ Essential hypertension ❑ Chronic renal failure. ❑ Tropical diseases. ❑ Psychiatric disorders ❑ Infections Toxoplasmosis Rubella Cytomegalo virus Herpes (TORCH); Reproductive Tract Infection (RTI); STD; HIV/AIDS, Vaginal infections; Leprosy,

		Tuberculosis ❑ Other risk factors: Age- Adolescents, elderly; unwed mothers, sexual abuse, substance use Pregnancies complicating with tumors, uterine anomalies, prolapse, ovarian cyst
III	15	Abnormal labor, pre-term labor & obstetrical emergencies ❑ Etiology, pathophysiology and nursing management of • Uncoordinated uterine actions, Atony of uterus, precipitate labour, prolonged labour. • Abnormal lie, presentation, position compound presentation. • Contracted pelvis-CPD; dystocia. • Obstetrical emergencies Obstetrical shock, vasa previa, inversion of uterus, amniotic fluid embolism, rupture uterus, presentation and prolapse cord. • Augmentation of labour. Medical and surgical induction. • Version • Manual removal of placenta. • Obstetrical operation: Forceps delivery, Ventouse, Caesarian section, Destructive operations • Genital tract injuries-Third degree perineal tear, VVF, RVF ❑ Complications of third stage of labour: • Post-partum Hemorrhage. Retained placenta.
IV	10	post-partum complications ❑ Nursing management of • Puerperal infections, puerperal sepsis, urinary complications, puerperal venous thrombosis and pulmonary embolism • Sub involution of uterus, Breast conditions, Thrombophlebitis Psychological complications, post-partum blues, depression, psychosis
V	25	High Risk Newborn ❑ Concept, goals, assessment, principles.

		❑ Nursing management of • Pre-term, small for gestational age, post-mature infant, and baby of diabetic and substance use mothers. • Respiratory conditions, Asphyxia neonatorum, neonatal apnea meconium aspiration syndrome, pneumo thorax, pneumomediastinum • Icterus neonatorum. • Birth injuries. • Hypoxic ischemic encephalopathy • Congenital anomalies. • Neonatal seizures. • Neonatal hypocalcemia, hypoglycemia, hypomagnesaemia. • Neonatal heart diseases. • Neonatal hemolytic diseases • Neonatal infections, neonatal sepsis, ophthalmia neonatorum, congenital syphilis, HIV/AIDS • Advanced neonatal procedures. • Calculation of fluid requirements. • Hematological conditions – erythroblastosis fetalis, hemorrhagic disorder in the newborn Organization of neonatal care, services (Levels), transport, neonatal intensive care unit, organization and management of nursing services in NICU
VI	15	HIV/AIDS ❑ HIV positive mother and her baby ❑ Epidemiology ❑ Screening ❑ Parent to child transmission (PTCT) ❑ Prophylaxis for mother and baby ❑ Standard safety measures ❑ Counseling ❑ Breast feeding issues ❑ National policies and guidelines ❑ Issues: Legal, ethical, Psychosocial and rehabilitation Role of nurse
VII	25	Gynecological problems and nursing management

		❑ Gynecological assessment ❑ Gynecological procedures ❑ Etiology, pathophysiology, diagnosis and nursing management of • Menstrual irregularities • Diseases of genital tract • Genital tract infections • Uterine displacement • Genital prolapses • Genital injuries • Uterine malformation • Uterine fibroid, ovarian tumors, Breast carcinoma, Pelvic inflammatory diseases, reproductive tract malignancies, hysterectomy – vaginal and abdominal. Sexual abuse, rape, trauma, assault
VIII	5	Administration and management of obstetrical and gynecological unit ❑ Design & layout ❑ Staffing, ❑ Equipment, supplies, ❑ Infection control; Standard safety measures ❑ Quality Assurance: -Obstetric auditing – records /reports, Norms, policies and protocols Practice standards for obstetrical and gynecological unit
IX	5	Education and training in obstetrical and gynecological care ❑ Staff orientation, training and development, ❑ In-service education program, Clinical teaching programs.

Course outcomes (Cos)

CO1	Remember the basic concepts of Normal pregnancy, labour and puerperium
CO2	Understand the physiology and management of High-risk pregnancy, abnormal labour and puerperium.
CO3	Analyze deviations from normal, able to provide appropriate Interventions.
CO4	Apply revised protocols to manage obstetrical emergencies.
CO5	Evaluate the outcomes of Nursing interventions and revisions made according to recent advancements.
CO6	Create new interventions/protocols to improve quality of care.

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	2	2	1		2			2	2	2		2	1	2
CO2		2	2			1					2	1	2		2
CO3		3		1			2			1	2		2		2
CO4	2					1			1		1		2	2	2
CO5	1	2	2	2	2		2	2		2		2			
CO6		2	2	2	2		2	2		2		2	2	2	2

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

PRACTICAL

TOTAL=960 HOURS

1 WEEK=30 HOURS

S.No.	Deptt./ Unit	No. of Week	Total Hours
1	Antenatal OPD including Infertility clinics/Reproductive medicine, Family welfare and post-partum clinic /PTCT	6	180 Hours
2	Antenatal and Postnatal ward	6	180 Hours

3	Labour room	4	120 Hours
4	Neonatal Intensive Care Unit	3	90 Hours
5	Obstetric/Gynae Operation Theatre	3	90 Hours
6	Gynae Ward	4	120 Hours
7	CHC, PHC, SC	6	180 Hours
	Total	32 Weeks	960 Hours

Essential Obstetrical and Gynecological Skills

Procedure Observed

- Assisted Reproductive Technology procedures
- Ultra-sonography
- Specific laboratory tests.
- Amniocentesis.
- Cervical & vaginal cytology.
- Fetoscopy.
- Hysteroscopy.
- MRI.
- Surgical diathermy.
- Cryosurgery.

Procedures Assisted

- Operative delivery
- Abnormal deliveries-Forceps application, Ventouse, Breech
- Exchange blood transfusion
- Culdoscopy.
- Cystoscopy
- Tuboscopy
- Laparoscopy.
- Endometrial Biopsy
- Tubal patent test
- Chemotherapy
- Radiation therapy
- Medical Termination of Pregnancy.
- Dilatation and Curettage

Procedures Performed

- History taking.
- Physical Examination-General
- Antenatal assessment. – 20

- Pelvic examination
- Assessment of risk status.
- Assessment of Intra uterine fetal well-being. Kick chart and fetal movement chart, Doppler assessment, Non-Stress Test, Contraction stress test (Oxytocin challenge test)
- Universal precautions- Disposal of biomedical waste.
- Per Vaginal examination and interpretation (early pregnancy, labour, postpartum).
- Utilization of Partograph
- Medical & Surgical induction (Artificial rupture of membranes).
- Vacuum extraction
- Conduct of delivery.
- Prescription and administration of fluids and electrolytes through intravenous route.
- Application of outlet forceps, delivery of breech – Burns Marshall, Loveset maneuver
- Repair of tears and Episiotomy suturing.
- Vacuum extraction
- controlled cord traction, Manual removal of placenta, placental examination,
- Manual vacuum aspiration
- Postnatal assessment. -20
- Management of breast engorgement
- Thrombophlebitis (white leg)
- Postnatal counseling.
- Reposition of inversion of uterus.
- Laboratory tests: Blood- Hb, Sugar, Urine-albumin, sugar
- Breast care, breast exam, and drainage breast abscess.
- Postnatal exercise.
- Assessment – New born assessment; physical and neurological, Apgar score, high-risk newborn, Monitoring neonates; Clinically and with monitors, Capillary refill time, Assessment of jaundice, danger signs
- Anthropometric measurement
- Neonatal resuscitation
- Gastric Lavage
- Care of newborn in multi-channel monitor and ventilator.
- Care of newborn in radiant warmer and incubator.
- Kangaroo mother care.
- Assisting mother with exclusive Breast-feeding
- Feeding technique: Katori, spoon, naso/orogastric, Total Parenteral nutrition

- Assessment, calculation and administration of fluids and medications:
- Oral
- I.D.
- I.M.
- I.V.- Securing IV-line, infusion pump
- Administration of drug per rectum
- Capillary blood sample collection.
- Oxygen therapy.
- Phototherapy.
- Chest physiotherapy.
- counseling – Parental, bereavement, family planning, infertility etc
- Setting of operation theatre.
- Trolley and table set up for Obstetrical & gynecological operations.
- Papsmear.
- Vaginal smear.
- Insertion of pessaries,
- Insertion of IUD and removal.
- Teaching skills
- communication skills
- Prepare referral slips
- Pre transport stabilization
- Networking with other stakeholders

ELECTIVE COURSE (19ECAP06)- ADOLESCENT PREGNANCY

Introduction

The main emphasis of the course is developing personality and managing .It is important to provide adolescents with an early start to antenatal care and to options for continuing or terminating pregnancy, particularly because adolescents tend to delay seeking abortion, resort to the use of less skilled providers, use more dangerous methods, and delay seeking care for complications.Special attention should be given to adolescents under 16 during obstetric care because they and their infants are at especially high risk of complications and death.

COURSE OBJECTIVES

1. Discuss prevalence of teenage pregnancy
2. Discuss pregnancy screening in teen population
3. Identify pregnancy risks associated with teenage pregnancy for the mother
4. Discuss medical impacts associated with teenage pregnancy for the fetus/infant
5. Discuss social implications of teenage pregnancy
6. Discuss risk for repeat unintended pregnancy
7. Discuss Post-pregnancy care of the teenager.

Unit	Learning Objective	Content	Hrs	Alignment to COs
I	Explain the adolescent pregnancy	INTRODUCTION TO TEENAGE PREGNANCY ➤ Teenage pregnancy ➤ Objectives ➤ Prevalence ➤ Pregnancy during adolescence and associated Risk factors ➤ Causes and effects of adolescent pregnancy	T (10) P (5)	CO1 & CO2
II	Describe the scope of the problem.	SCOPE OF THE PROBLEM ➤ Health consequences ➤ Social and economic consequences ➤ Effect of pregnancy on	T (10) P (5)	CO3

		mother ➤ Effect of pregnancy on babies		
III	Discuss the various methods of prevention of adolescent pregnancy	SCREENING AND PREVENTION OF ADOLESCENT PREGNANCY ➤ Importance of screening for pregnancy ➤ Prevention of adolescent pregnancy. ➤ Birth control methods ➤ Complications from pregnancy and child birth	T (10) P (5)	CO4,CO5,CO6

Teaching- Learning Strategies

- 1) Lecture cum Discussion
- 2) Seminar
- 3) Lab – Birth control methods
- 4) Demonstration
- 5) Assignments

Assessment Techniques of each topic of the course

S.No	Topic	Assessment Techniques
1.	Introduction To Teenage Pregnancy	Short answer
2.	Scope of the problem	Short answers, Descriptive type, Antenatal Assessment and demonstration of breathing exercises.
3.	Screening and prevention of adolescent pregnancy	Descriptive type, Health Education Return demonstration

(19ECNBP07)-NATURAL BIRTHING PROCESS-

Introduction

The term “natural birth” historically has been used to describe childbirth without medication. In some cases, this means not using any pain medication during labor, but having other medical interventions, such as fetal heart monitoring. Or it can mean not having any medical intervention at all. Without pain medication, women rely on relaxation techniques and controlled breathing to help relieve the pain. While this type of birth sounds like it would take place in a birthing center with a midwife and/or a doula, it may also happen in a hospital

Course Objective

1. Define Natural birthing process
2. List the conditions and preparations for Natural birthing
3. Enumerate the benefits and risks of Natural birthing
4. Explain the Breathing techniques-Lamaze method
5. Discuss the positions and coping with pain
6. Describe the role of midwife in natural birthing
7. Recommend choosing the health provider and location

Unit	Learning Objective	Content	Hrs
I	Explain the meaning of Natural birthing process	INTRODUCTION TO NATURAL BIRTHING PROCESS Definition Concepts of Natural birthing Ethical aspects of Natural birthing process	T (10) P (5)
II	Describe the conditions and preparations of natural birthing process	PREPARATION FOR NATURAL BIRTHING Conditions and preparations for natural birthing Positions and breathing techniques Lamaze method Adoptions of natural birthing methods.	T (10) P (5)
III	Discuss the role of Midwife in conducting Natural birthing	ROLE OF NURSE IN NATURAL BIRTHING Coping with pain Pain relief techniques Natural birth education	T (10) P (5)

Teaching- Learning Strategies

- 1) Lecture cum Discussion
- 2) Seminar
- 3) Lab – Basic Life Support techniques using mannequin and simulations
- 4) Demonstration
- 5) Assignments

Assessment Techniques of each topic of the course

S.No	Topic	Assessment Techniques
1.	Introduction To Obstetrical emergencies	Short answer
2.	Obstetrical emergencies and their management	Short answers, Descriptive type, Antenatal Assessment and demonstration of breathing exercises.
3.	Basic life support and role of Nurse in performing BSLs	Descriptive type, Health Education Return demonstration

(19ECOIL08) -OXYTOCIN INDUCTION OF LABOUR

Introduction

This course is designed to help the students acquire knowledge, develop attitude and beginning skills in the administration of oxytocin drugs for women during labour. This skill development course is designed to prepare participants to induce or strengthen uterine contractions in pregnant women to aid in labor and delivery or to control postpartum bleeding.

Course Objective

As a result of taking this class, students are expected to be able to

1. Understand the various drugs used in obstetrics.
2. To assess the knowledge and practice on use of oxytocin
3. To enable the progress to a vaginal delivery
4. helps to improve the quality of care and outcomes for pregnant women undergoing induction of labour in under-resourced settings

Unit	Learning Objective	Content	Hrs
I	Explain the oxytocin infusion and its importance	OXYTOCIN FOR INDUCTION AND AUGMENTATION OF LABOUR ☐ Definition: ☐ Types Of Oxytocics: ☐ Physiologic And Pharmacologic Effect: ☐ Indication Of Oxytocics: ☐ Contraindications ☐ Dosage And Routes Of Administration	T (10) P (5)

		☐ Side Effects And Toxic Effects ☐ Nursing Intervention For Women Taken Oxytocin Automatic Oxytocin Infusion Equipment For Induction Of Labour	
II	Describe indications, dosage, action, side effects and nurses responsibilities in the administration of drugs used for mothers.	PHARMACO- THERAPEUTICS IN OBSTETRICS ➤ Indication, dosage, action, contra indication and side effects of drugs ➤ Effect of drugs on pregnancy, labor & puerperium ➤ Nursing responsibilities in the administration of drug in Obstetrics ➤ anti hypertensive, ➤ diuretics, corticosteroids, tocolytic agents, anti convulsants, anticoagulants Analgesics and Anesthetics in Obstetrics ➤ Effects of maternal ➤ medication on fetus and neonate Role of obstetric nurse	T (10) P (3)
III	Describe The Guideline Management Principles And Goals In Administering Obstetrics	GUIDELINE MANAGEMENT PRINCIPLES AND GOALS IN ADMINISTERING OBSTETRICS DRUGS: ➤ standard protocol for oxytocin infusion ➤ Documentation ➤ Legal and ethical issues ➤ Teratogenic effects of drugs on fetus	T (10) P (2)

Teaching- Learning Strategies

- 1) Lecture cum Discussion
- 2) Seminar
- 3) Lab – oxytocin infusion and drop rate
- 4) Demonstration
- 5) Assignments

Assessment Techniques of each topic of the course

S.No	Topic	Assessment Techniques
1.	Oxytocin for induction and augmentation of labour	Short answer

2.	Pharmaco- therapeutics in obstetrics	Short answers, Descriptive type, Drug and its indication
3.	Guideline management principles and goals in administering obstetrics drugs	Descriptive type, Health Education Return demonstration

(19ECOE09) -OBSTETRICAL EMERGENCIES-

Introduction

Pregnancy and childbirth is a normal process, complications may occur any time during antenatal or post natal period. The ability of the midwife to deal with competence the obstetric emergencies depends on the prompt action taken by her. The speed of this action while calling for medical assistance will often help to determine the outcome for the mother and the baby. Every delivery must be managed as an obstetrical emergency and all the preparation done to deal these emergencies. At times the midwife may face an emergency such as sudden collapse which is not directly related to mother's pregnancy. This requires that she should remain alert to the possibility of such a situation.

Course Objective and Summary

1. Define obstetric emergencies;
2. List the conditions related to obstetric emergencies;
3. Enumerate the essential qualities of the nurse/midwife in dealing with obstetric emergencies;
4. Explain the important signs and symptoms of each conditions.
5. Discuss the immediate management of each emergency
6. Describe the specific role of the midwife in the management of various obstetric emergencies discussed
7. Recommend strongly the practising of basic life support procedures on a regular basis.

Unit	Learning Objective	Content	Hrs
I	Explain the definition of obstetric emergencies	INTRODUCTION TO OBSTETRIC EMERGENCIES ➤ Definition ➤ Causes and effects ➤ Concepts of obstetric emergencies ➤ legal implications of emergency care	T (10) P (5)
II	Describe the obstetrical emergencies & their management	OBSTETRICAL EMERGENCIES & THEIR MANAGEMENT ➤ Rupture of uterus ➤ Vasa Previa ➤ Cord Presentation and Cord Prolapse ➤ Amniotic fluid embolism ➤ Shoulder dystocia ➤ Shock Causes, signs and symptoms of the condition, management	T (10) P (5)
III	Discuss the Basic life support	BASIC LIFE SUPPORT & ROLE OF NURSE ➤ Basic life support ➤ Indications ➤ Procedure ➤ Role of nurse in basic life support	T (10) P (5)

Teaching- Learning Strategies

- 1) Lecture cum Discussion
- 2) Seminar
- 3) Lab – Basic Life Support techniques using mannequin and simulations
- 4) Demonstration
- 5) Assignments

Assessment Techniques of each topic of the course

S.No	Topic	Assessment Techniques
1.	Introduction To Obstetrical emergencies	Short answer
2.	Obstetrical emergencies and their management	Short answers, Descriptive type, Antenatal Assessment and demonstration of breathing exercises.
3.	Basic life support and role of Nurse in performing BLS	Descriptive type, Health Education Return demonstration

(19ECOG10) ONCOLOGY GYNAECOLOGY

Introduction

Gynecologic oncology is a specialized field of medicine that focuses on cancers of the female reproductive system, including ovarian cancer, uterine cancer, vaginal cancer, cervical cancer, and vulvar cancer. Gynecological cancers comprise 10-15% of women's cancers, mainly affecting women past reproductive age but posing threats to fertility for younger patients. The most common route for treatment is combination therapy, consisting of a mix of both surgical and non-surgical interventions radiotherapy, chemotherapy.

Course Objective and Summary

1. Define Oncology Gynecology
2. List the risk factors of the conditions
3. Enumerate the signs and symptoms
4. Explain the epidemiology of the condition
5. Discuss the medical management
6. Describe the quality of life

Unit	Learning Objective	Content	Hrs

I	Explain the meaning of oncology gynecology	INTRODUCTION TO ONCOLOGY GYNECOLOGY Meaning and Definition Causes and risk factors of the conditions Oncology and the effects	T (10) P (5)
II	Describe the conditions and its causes	CONDITIONS UNDER ONCOLOGY GYNECOLOGY Ovarian tumor Uterine cancer vaginal cancer, cervical cancer, vulvar cancer	T (10) P (5)
III	Discuss the epidemiology and quality of care	INCIDENCE & PREVALENCE OF ONCOLOGY GYNECOLOGY Epidemiology Treatment modalities Radiology and chemotherapy Care of patients undergoing treatment	T (10) P (5)

Teaching- Learning Strategies

- 1) Lecture cum Discussion
- 2) Seminar
- 3) Lab – assessment of the cancer, staging
- 4) Demonstration
- 5) Assignments

Assessment Techniques of each topic of the course

S.No	Topic	Assessment Techniques
1.	Introduction To oncology and gynecology	Short answer
2.	Disease conditions under oncology gynecology	Short answers, Descriptive type, Antenatal Assessment and demonstration of breathing exercises.
3.	Incidence and prevalence of oncology gynecology	Descriptive type, Health Education Return demonstration

SYLLABUS M.SC NURSING

PAEDIATRIC NURSING(Revised Regulations-2019)



Bharath Institute of Higher Education and Research
(Deemed To Be University)
Chennai

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH
TAMILNADU, CHENNAI



The motto of the BIHER is win the world by innovation. To the stars by hard work. The emblem of the Bharath Institute of Higher Education and Research is a symbolic expression of equality, knowledge, enlightenment, expression of peace and love and all this based as a source of all medicines

The main aim of establishing the institute was to provide high quality education to students from across the world in several relevant fields. The institute was developed to become a premier university for Teaching, Learning, Research, and Innovation. Students here are trained to create a better society with ethics and morals.

Bharath Institute of Higher Education & Research (TamilNadu) earlier known as **Bharath University**, commonly referred to as BIHER, commenced its establishment in the academic year of 1984. Bharath University has been given the status of 'Deemed to be University'. The institute is approved and recognized by the All-India Council for Technical Education (AICTE) and the University Grants Commission (UGC) respectively. It has also been accredited with grade 'A' by the National Assessment and Accreditation Council (NAAC).

PHILOSOPHY:

Bharath University of Higher Education and Research believes that:

Post Graduate programme is essential to prepare nurses to improve the quality of nursing education and practice in India. Post graduate programme in nursing builds upon and extends competence acquired at the graduate levels, emphasizes application of relevant theories into nursing practice, education, administration and development of research skills.

The programme prepares nurses for leadership position in nursing and health fields who can function as nurse specialists, consultants, educators, administrators and researchers in a wide variety of professional settings in meeting the National priorities and the changing needs of the society. This programme provides the basis for the post masteral programme in nursing. Further the programme encourages accountability and commitment to life long learning which fosters improvement of quality care.

AIM:

The aim of the postgraduate program in nursing is to prepare graduates to assume responsibilities as nurse specialists, consultants, educators, administrators in a wide variety of professional settings.

OBJECTIVES:

On Completion of the two years M. Sc Nursing programme, the graduate will be able to:

1. Utilize/apply the concepts, theories and principles of nursing science
2. Demonstrate advance competence in practice of nursing
3. Practice as a nurse specialist.
4. Demonstrate leadership qualities and function effectively as nurse educator and manager.
5. Demonstrate skill in conducting nursing research, interpreting and utilizing the findings from health related research.
6. Demonstrate the ability to plan and effect change in nursing practice and in the health care delivery system.
7. Establish collaborative relationship with members of other disciplines
8. Demonstrate interest in continued learning for personal and professional advancement.

VISION

Bharath Institute of Higher Education & Research (BIHER) envisions and constantly strives to provide an excellent academic and research ambience for students and members of the faculties to acquire professional competence along with human dignity, and spearhead the transformation of community through continuous discovery in science and technology.

MISSION

To develop as a Premier University for Teaching, Learning, Research and Innovation on par with leading global universities.

To impart education and training to students for creating a better society with ethics and morals.

To foster an interdisciplinary approach in education, research and innovation by supporting lifelong professional development, enriching knowledge banks through scientific research, promoting best practices and innovation, industry-driven and institute-oriented cooperation, globalization and international initiatives.

To develop as a multi-dimensional institution contributing immensely to the cause of societal advancement through spread of literacy, an ambience that provides the best of international exposures, provide health care, enrich rural development and most importantly impart value-based education.

To establish benchmark standards in professional practice in the fields of innovative and emerging areas in medicine, dentistry, nursing, physiotherapy, allied sciences, engineering, and management.

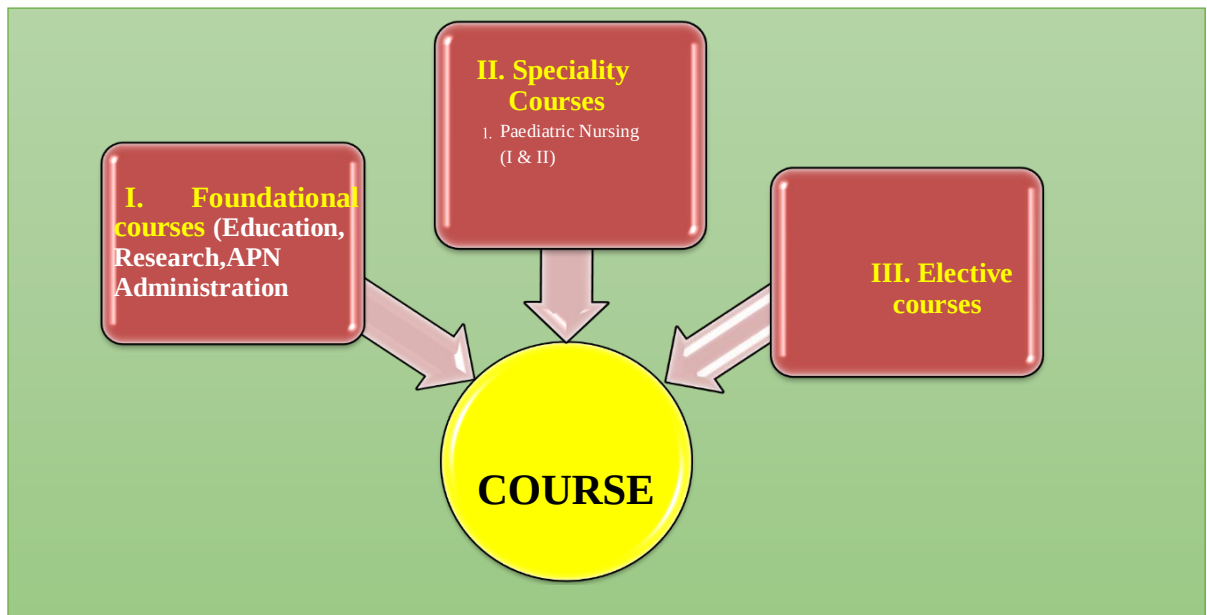
To launch new programmes with innovative curriculum design by provide multi-faceted exposure in various subjects.

To provide flexibility to students - options / add-ons to core subjects, develop Device Agnostic Technology to access online content Funding/incubation entrepreneurial ideas flipped class room – Integrated Courses & Need based learning.

Programme Educational Objects (PEO)

1. To become a competent nurse qualified to practice in a variety of settings in either public/ government or private health care
2. To demonstrate the ability to plan and effect change in nursing practice and in the health care delivery system.
3. To ordinate/manage care by being active participant of inter-professional team and member of a profession demonstrating self-responsibility and accountability for practice as well as to support the profession.
4. To develop leadership and managerial skills to meet the goal/ challenges of a health care organization or an Educational Institute
5. To become exemplary citizens by adhering to code of ethics and professional conduct at all times in fulfilling personal, social and professional obligations so as to respond to national aspirations

MSC NURSING PROGRAM-TWO YEARS
CHOICE BASED CREDIT SYSTEM(CBCS)
COMPETENCY BASED CURRICULUM



PROGRAMME OBJECTIVES

PO1	Provide holistic care recognizing individual patient's preferences, values and needs, that is compassionate, coordinated, age and culturally appropriate safe and effective care.
PO2	Demonstrate accountability for the delivery of standard-based nursing care that is consistent with moral, altruistic, legal, ethical, regulatory and humanistic principles.
PO3	Influence the behaviour of individuals and groups within their environment and facilitate establishment of shared goals
PO4	Demonstrate awareness and responsiveness to the context of healthcare system and ability to manage resources essential to provide optimal quality of care
PO5	Use technology and synthesize information and collaborate to make critical decisions that optimize patient outcomes
PO6	Interact effectively with patients, families and colleagues fostering mutual respect and shared decision making to enhance patient satisfaction and health outcomes
PO7	Function effectively within nursing and interdisciplinary teams, fostering open communication, mutual respect, shared decision making, team learning and development.
PO8	Minimize risk of harm to patients and providers through both system effectiveness and individual performance
PO9	Use data to monitor the outcomes of care processes and utilize improvement methods to design and test changes to continuously improve the quality and safety of healthcare system
PO10	Identify, evaluate and use the best current evidence coupled with clinical expertise and consideration of patient's preferences, experience and values to make practical decisions.
PO11	To become Nurse Researcher and demonstrate skill in conducting research and integrate Evidence based practice in health care.
PO12	To become Nurse Educator to understand the process to understand the process of curriculum development and the methodology of curriculum change, innovation and integration.

PROGRAMME SPECIFIC OUTCOME (PSOS)

PSO1	To become a Nurse Educator in Health Care settings and educational Institutions.
PSO2	To Become Nurse Specialist in the field of Pediatric Nursing.
PSO3	To develop leadership qualities and managerial skills to meet challenges/goals of an Institution or an health care organization.

(** PSO- 2 or 3)

MAPPING / ALIGNMENT OF PEO VS PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
PEO1		✓										✓	✓		✓
PEO2											✓				
PEO3		✓					✓	✓	✓	✓			✓	✓	
PEO4	✓		✓	✓											
PEO5		✓			✓	✓	✓		✓					✓	

MAPPING BETWEEN COURSE OUTCOMES (COS) AND PROGRAMME OUTCOMES (POS)

YR	Courses/ SOs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
I	THEORY												
	Nursing education												
	Advanced Nursing Practice							✓					
	Nursing Research & statistics												
	Clinical Speciality I (Paediatric Nursing-I)						✓	✓					
	PRACTICAL				✓								
	Nursing education												
	Advancenursingpractice				✓								
	Nursing Research and Statistics												
	*Clinicalspecialty-I (Paediatric Nursing)												
II	THEORY	✓											
	Nursing Management			✓	✓								
	Clinical Speciality II (Paediatric Nursing-II)	✓						✓					
	PRACTICAL												
	Nursing Management			✓	✓			✓					
	Nursing Research (Dissertation)	✓		✓				✓					
	Clinical Speciality II (Paediatric Nursing- II)												

MAPPING BETWEEN PROGRAMME ELECTIVES (PEs) AND PROGRAMME OUTCOMES (POs)

Year	Elective Courses/ SOs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
I	Paediatric clinical nutrition	✓											
	Lactation						✓						
	Child development			✓									
	Parenting						✓						
	Child Psychopathology			✓									
II	Immunization skills								✓				
	Adolescent Health Problems			✓									
	Child Psychiatry			✓									
	Autism												
	Developmental Disorders.												

M.Sc. Nursing Ist Year						
Course Code	Course Category	Course Title	L	T	P	C
THEORY						
19NE01	CC	Nursing education	3	0	3	7.5
19ANP02	CC	Advanced Nursing Practice	3	0	3	7.5
19NRS03	CC	Nursing Research & statistics	3	0	3	7.5
19PEN04	SP	Clinical Speciality I (Paediatric Nursing-I)	3	0	3	7.5
PRACTICAL						
19NE01	CC	Nursing education	0	0	3	7.5
19ANP02	CC	Advancenursingpractice	0	0	3	10
19NRS03	CC	Nursing Research andStatistics	0	0	3	5
19PEN04	SP	*Clinicalspecialty–I (Paediatric Nursing)	0	0	3	32.5

M.Sc. Nursing IInd Year								
Course Title			L	T	P	C		
THEORY								
19NM05	CC	Nursing Management			3	0	3	7.5
19PEN06	SC	Clinical Specility II (Paediatric Nursing)			3	0	3	7.5
PRACTICAL								
19NM05	CC	Nursing Management			0	0	3	7.5
19NRS03	CC	Nursing Research- Dissertation			0	0	3	15
19PEN06	SC	*Clinicalspecialty–II (Paediatric Nursing)			0	0	3	47.5

ELECTIVECOURSES

(StandardNational/InternationalModulescanbeused)

Course Code	Elective courses	L	T	P	C
I Year					
19ECPCN01	Paediatric clinical nutrition	3	0	3	2
19ECL02	Lactation	3	0	3	2
19ECCD03	Child development	3	0	3	2
19ECP04	Parenting	3	0	0	2
19ECCPP05	Child Psychopathology	3	0	3	2
I I Year					
19ECIS01	Immunization skills	3	0	3	2
19ECAHP02	Adolescent Health Problems	3	0	3	2
19ECCP03	Child Psychiatry	3	0	3	2
19ECA04	Autism	3	0	3	2
19ECDD05	Developmental Disorders.	3	0	3	2
	(4 Courses Mandatory) – 2 Credits = 40 Hours				

SUMMARY OF CURRICULUM STRUCTURE AND CREDIT & CONTACT HOUR DISTRIBUTION

S.No	Sub Area	Credit As per Year		No. of Credit
		I	II	
1	Core Courses	45	30	75
2	Speciality Courses	40	55	95
3	Elective Courses	4	4	8
	TOTAL			178

REGULATIONS

ELIGIBILITY CRITERIA/ADMISSION REQUIREMENTS:

- The candidate should be a Registered Nurse and Registered midwife or equivalent with any State Nursing Registration Council.
- The minimum education requirements shall be the passing of: B.Sc. Nursing / B.Sc. Hons. Nursing / Post Basic B.Sc. Nursing with minimum of 55% aggregate marks.
- The candidate should have undergone in B.Sc. Nursing / B.Sc. Hons. Nursing / Post Basic B.Sc. Nursing in an institution which is recognized by Indian Nursing Council.
- Minimum one year of work experience after Basic B.Sc. Nursing.
- Minimum one year of work experience prior or after Post Basic B.Sc. Nursing.
- Candidate shall be medical lyfit.
- 5% relaxation of marks for SC/ST candidates may be given.
- Preference will be given to candidate with clinical experience on the area of specialty choose.

ELIGIBILITY CERTIFICATE

- Candidate from Tamil Nadu as well as other state need to obtain as eligibility certificate from the Bharath University by remitting the prescribed fees along with the application form.
- Candidate from other states must produce the migration certificate at the time of admission.

REGISTRATION

The candidate admitted to the programme shall register with the Bharath University by remitting the prescribed fees along with the application form for registration duly filled in and forwarded to the Bharath University through the head of the Institution within the stipulated date.

SELECTION OF THE CANDIDATE:

- Candidate will be selected on the basis of merit and experience in Specialty areas by college selection committee member.
- After scrutiny of application eligible candidate will be called for an Interview/ entrance test before admission.
- Admission notification will intimate the date of commencement of course.

Programme of study

The M. Sc (Nursing) programme is of 2 years, non-semester study. During the programme, theory, clinical experience in the hospitals & community will be provided.

Duration

Duration of the course is 2 years for M.Sc. (N)

Available	52 weeks
Vacation	4 weeks
Examination	2 weeks
Gazetted holidays	3 weeks
Total weeks available	43 weeks
40 hours per week	1720 hours
Total hours for 2 years	3440 hours

Course of Instruction

I YEAR

Theory (hrs) Credit Practical (hrs)Credit

Nursing education	150	7.5	150	7.5
Advance nursing practice	150	7.5	200	10
Nursing Research and statistics	150	7.5	100	5
*Clinical specialty –I	150	7.5	650	32.5
TOTAL	600	30	1100	55

II YEAR

Theory(hrs) Credit Practical (hrs)Credit

Nursing Management	150	7.5	150	7.5
Nursing Research (Dissertation)			300	15
*Clinical Specialty-II	150	7.5	950	47.5
TOTAL	300	15	1400	70

Educational visit 2 weeks

Scheme of Examination

	Theory			Practical		
	Hours	Internal	External	Hours	Internal	External
1st year						
Nursing education	3	25	75	3	50	50
Advance nursing practice	3	25	75	3		
Nursing Research and Statistics	3	25**	75*	3		
Clinical speciality -I	3	25	75	3	100	100
Total		100	300		150	150
II nd Year						
Nursing Management	3	25	75	3		
Dissertation & Viva				3	100	100
Clinical Speciality-II	3	25	75	3	100	100
Total		50	150		200	200

Nursing research=50 and statistics=25

** Nursing research=15 and statistics=10

1. Minimum pass marks shall be 50 % in each of the Theory and practical papers separately.
2. A candidate must have minimum of 80% attendance (irrespective of the kind of absence) in theory and practical in each subject for appearing for examination.
3. A candidate must have 100% attendance in each of the practical areas before award of degree
4. A candidate has to pass in theory and practical exam separately in each of the paper.
5. If a candidate fails in either the theory or practical paper, he/she has to re-appear for both the papers (Theory and practical).
6. Maximum no. of attempts permitted for each paper is 3 including first attempt

7. The maximum period to complete the course successfully should not exceed 4 (four) years
8. A candidate failing in more than two subjects will not be promoted to the II year.
9. No candidate shall be admitted to the subsequent II-year examination unless the candidate has passed the I year examination.
10. Maximum number of candidates for all practical examination should not exceed 10 per day.
11. Provision of Supplementary examination should be made.
12. All practical examinations must be held in the respective clinical areas.
13. One internal and One external examiner (outside the University) should jointly conduct practical examination for each student
14. An examiner should be M.Sc (N) in concerned subject and have minimum of 3 (three) years post graduate teaching experience.
15. One internal and One external examiner (outside the University) should evaluate dissertation and jointly conduct viva-voce for each student
16. For Dissertation Internal examiner should be the guide and external examiner should be Nursing faculty / nursing expert in the same clinical speciality holding Ph.D./M.Phil/M.Sc. Nursing with a minimum of 3 years' experience in guiding the research projects for Post Graduate students of Nursing.

ATTENDANCE:

A Candidate pursuing M.Sc. Nursing Course shall study in the concerned department of the institution for the entire period as a full-time student. No candidate is permitted to work in any laboratory/college/industry/pharmacy etc while studying post graduate course. No candidate should join any other course of study or appear for any other examination conducted by the university or any other university in India or abroad during the period of registration.

Each year shall be taken as a unit for the purpose of calculating attendance.

1. Every student shall attend symposium, seminars, conferences, journal review meetings and lectures during each year as prescribed by the department/college/university and not absent himself/herself without valid reasons.
2. Candidate who has put in a minimum of 80% attendance in the theory and practical assignments separately shall be permitted to appear for M.Sc. Nursing examination, provided she /he has completed the course and has shown satisfactory progress mentioned in the logbook
3. Any student who fails to complete the course in the manner stated above shall not be permitted to appear for the university examination

INTERNAL ASSESSMENT MARKS

There shall be continuous internal assessment. The marks for internal assessment set apart for the theory and practical in each subject there shall

be two tests and two assignments in each subject, the average of which shall be taken for the internal assessment. The principal shall notify the internal assessment marks in the notice board at the end of each term without fail under the intimation of the university. The principal of the college shall send the internal assessment marks of the students to the university

A student must secure at least 50% of the total marks fixed for internal assessment in a particular subject in order to be eligible to appear in university examination in all subject

Distribution of internal assessment marks for various subjects Firstyear

SI.NO	SUBJECT	INTERNALASSESSMENT MARKS
01	NURSING EDUCATION Theory Practical	25 50
02	ADVANCE NURSING PRACTICE	25
03	NURSING RESEARCH AND STATISTICS	25
04	CLINICAL SPECIALITY-I Theory Practical	25 100
	TOTAL	230

Secondyear

SI.NO	SUBJECT	INTERNAL ASSESSMENT MARKS
01	NURSING MANAGEMENT	25
02	DISSERTATION AND VIVA PRACTICAL	NIL
03	CLINICAL SPECIALITY-I Theory Practical	25 100
	TOTAL	140

MONITORING PROGRESS OF STUDIES:

Every candidate shall maintain a log book and record of her/his participation in the training programme conducted by the department such as journal reviews, seminars etc. The faculty members and peers will assess the presentation using relevant check list. The presentation made by the candidates should be mentioned in the logbook. The logbook shall be scrutinized and certified by the Tamilnadu Nursing Council and presented in the university practical examination

M.Sc. Nursing Log Book:

The university has prescribed a log book which is scrutinized by Tamilnadu Nursing Council.

DISSERTATION:

Each candidate pursuing M.Sc. Nursing course is required to carry out on selected research project under the guidance of a recognized Post Graduate Teacher. The results of such a work shall be submitted in the form of dissertation.

The dissertation is aimed to train a graduate student in research methods and techniques. It includes identification of problems, formulation of hypothesis, search and review of literature, getting acquainted with recent advances, designing of a research study, collection of data, critical analysis, interpretation of results and drawing conclusions. Every candidate shall submit to the Registrar of the university in the prescribed proforma. No change in the dissertation topic or guide shall be made without prior approval of the university.

The dissertation should be written under the following headings:

- I. Introduction
- II. Aims or objectives of study
- III. Review of literature
- IV. Materials and methods
- V. Results
- VI. Discussion
- VII. Conclusion
- VIII. Summary
- IX. References
- X. Tables
- XI. Annexures

The written text of dissertation shall not be less than 10 pages and shall not exceed 100 pages excluding references, tables, questionnaires and other annexure. It should be neatly typed in double line spacing on one side of paper (A4 Size, 8.27" x 11.69") and bound properly. Spiral binding should not be done. A declaration by the candidate for having done the work should also be included and certified by the guide, head of the department and head of the institution. Six copies of dissertation shall be submitted to the registrar through proper channel along with soft copy. Three months before the final examination, it shall be assessed by three examiners, one internal and two externals, appointed by the university. Acceptance of the dissertation is a pre-requisite for a candidate to appear for final examination.

Regulations for examination:

The M.Sc. nursing course shall have two examinations, one at the end of the first year and second at the end of the second year

Eligibility for appearing for the examination:

75% of the attendance for theory and practical. However, 100% of attendance for practical before the award of degree.

M.Sc. Nursing, I Year Examination:

It consists of theory(written) papers and practical examinations.

Theory – (Written) Examination:

The following 4 papers are the theory papers for candidates

1. Nursing education
2. Advance nursing practice
3. Nursing research and statistics
4. Clinical specialty

Criteria to pass:

To be declared as pass in the M.Sc. I year a candidate has to pass in all the prescribed subjects for the I year.

Practical examination

There shall be practical examination in nursing education and nursing specialty chosen by the candidate

01. Common Subject:

A candidate shall secure in each of the common subjects not less than 50% marks prescribed for university examination.

02. Nursing Specialty Subject:

A candidate shall secure not less than 50% marks prescribed for university examination in theory and practical examination exclusive of internal assessment marks.

Carry over

The candidate who has failed in more than two subjects will not be promoted to the II year

M.Sc. Nursing I Year Examination:

The university examination consists of dissertation, written papers (theory), practical examination and viva-voce examination, including dissertation.

Dissertation:

Only candidates whose dissertation has been accepted shall be eligible to appear for M.Sc. II year examination.

Theory – (Written) Examination:

The following 2 papers are the theory papers for candidates

1. Nursing management
2. Clinical speciality

Practical examination

There shall be practical examination in nursing speciality chosen by the candidate

Criteria to pass:

To be declared as pass in the M.Sc. II year a candidate has to pass in all the prescribed subjects for the II year.

01. Common Subject:

A candidate shall secure in each of the common subjects not less than 50% marks prescribed for university examination.

02. Nursing Specialty Subject:

A candidate shall secure not less than 50% marks prescribed for university examination in theory and practical examination exclusive of internal assessment marks.

Classification of results:

- 50% pass in each of the theory and practical separately.
- 50-59% Second division
- 60-74% First division
- 75% and above is distinction

For declaring the rank aggregate of 2 years marks to be considered

If the candidate fails in either practical or theory paper, he/she has to re-appear for both the papers (theory and practical)

Maximum no. of attempts per subject is three (3) inclusive of first attempt. The maximum period to complete the course successfully should not exceed 4 years

Candidate who fails in any subject, shall be permitted to continue the studies into the second year. However the candidate shall not be allowed to appear for the Second year examination till such time that he/she passes all subjects of the first year M.Sc nursing examination

Eligibility for degree:

A candidate shall have passed in all the subjects of M.Sc. I & II Year to be eligible for the award of degree

Practical

- 4 hours of practical examination per student.
- Maximum number of 10 students per day per specialty.
- The examination should be held in clinical area only for clinical specialties
- One internal and external should jointly conduct practical examination
- Examiner – Nursing faculty teaching respective specialty area in M.Sc nursing programme with minimum 3 years' experience after M.Sc nursing.

Guidelines for Dissertation Tentative

Schedule for dissertation

S. No.	Activities	Scheduled Time
1.	Submission of the research proposal	End of 9 th month of 1 st year
2.	Submission of dissertation – Final	End of 9 th month of II nd Year

Note: - Administrative approval and ethical clearance should be obtained

Research Guides

a) Qualification of Guide

Main guide: Nursing faculty / nursing expert in the same clinical speciality holding Ph.D./M.Phil/M.Sc. Nursing with a minimum of 3 years' experience in teaching in the Post Graduate Programme in Nursing.

Co-Guide: A Co-Guide is a nursing faculty/expert in the field of study (may be from outside the college but should be within the city.)

b) Guide – Students Ratio

Maximum of 1:4 (including as co-guide)

c) Research Committee

There should be a research committee in each college comprising of minimum 5 members chaired by the Principal, College of Nursing.

d) Change of guide:

In the event of a register guide leaving the college for any reasons or in the event of death of guide, guide may be changed with prior permission from the university

Evaluation of Dissertation:

The dissertation shall be evaluated by:

1. Professor of Nursing Research common to all the branches of speciality.
2. Professor in clinical speciality.
3. An external examiner which experience in Nursing Research who will be common to all the branches of speciality
4. The number of pages of dissertation should not exceed 60 pages
5. The viva-voce examination should be a minimum 30 minutes per student.

Resubmission of theses:

- Resubmission of theses with corrections can be done within 6 months
- Resubmission of theses with total re-doing can be done within 2 years.

Conduct and Discipline:

1. Students are expected to follow ethical values in personal and professional life and maintain the professional standards in college and hospital.
2. Students should make every effort to care of the college, hostel and hospital property.
3. Students are expected to abide by the rules and regulations laid by the College, Hospital and Hostel.

Eligibility for Examiners

Internal examiner:

A person to be eligible to be appointed as internal examiner shall be recognized PG teacher of BIHER in the concerned branch of speciality and shall have at least 3 years of PG Teaching experience M.Sc. Nursing students.

External examiner:

A person to be eligible to be appointed as external examiner shall have the qualification prescribed above for a guide and shall have at least 3 years of PG Teaching experience for M.Sc. Nursing students.

Number of examiners:

There shall be two examiners, one internal and one external

(19NE01) NURSING EDUCATION

PLACEMENT-IYEAR

Hours of instruction
Theory: 150hours Credit:7.5

Practical : 150 hours Credit: 7.5

This course is designed to assist students to develop a broad understanding of Fundamental Principles, concepts, trends and issues related to education and nursing education. Further, it would provide opportunity to students to understand, appreciate and acquire skills in teaching and evaluation, curriculum development, implementation, maintenance of standards and accreditation of various nursing educational programs.

Objectives

At the end of the course, students will be able to:

1. Explain the aims of education, philosophies, trends in education and health: its impact on nursing education.
2. Describe the teaching learning process.
3. Prepare and utilize various instructional media and methods in teaching learning process.
4. Demonstrate competency in teaching, using various instructional strategies.
5. Critically analyze the existing nursing educational programs, their problems, issues and future trends.
6. Describe the process of curriculum development, and the need and methodology of curriculum change, innovation and integration.
7. Plan and conduct continuing nursing education programs.
8. Critically analyze the existing teacher preparation programs in nursing.
9. Demonstrate skill in guidance and counseling.
10. Describe the problems and issues related to administration of nursing curriculum including selection and organization of clinical experience.
11. Explain the development of standards and accreditation process in nursing education programs.
12. Identify research priorities in nursing education.
13. Discuss various models of collaboration in nursing education and services.
14. Explain the concept, principles, steps, tools and techniques of evaluation
15. Construct, administer and evaluate various tools for assessment of, knowledge, skill, and attitude.

Course Content

Units	Hours		Course Content
	Theory	Practical	
I	10		Introduction: ❑ Education: Definition, aims, concepts, philosophies & their education implications, ❑ Impact of Social, economic, political & technological changes on education: • Professional education • Current trends and issues in education • Educational reforms and National Educational policy, various educational commissions-reports • Trends in development of nursing education in India
II	20	30	Teaching – Learning Process ❑ Concepts of teaching and learning: Definition, theories of teaching and learning, relationship between teaching and learning. ❑ Educational aims and objectives; types, domains, levels, elements and writing of educational objectives ❑ Competency based education (CBE) and outcome-based education (OBE) ❑ Instructional design: Planning and designing the lesson, writing lesson plan: meaning, its need and importance, formats. ❑ Instruction strategies – Lecture, discussion, demonstration, simulation, laboratory, seminar, panel, symposium, problem solving, problem-based learning (PBL), workshop, project, role-play (socio-drama), clinical teaching methods, programmed instruction, self-directed learning (SDL), micro teaching, computer assisted instruction (CAI), computer assisted learning (CAL)
III	10	10	Instructional media and methods ❑ Key concepts in the selection and use of media in education ❑ Developing learning resource material using different media ❑ Instructional aids – types, uses, selection, preparation, utilization. ❑ Teacher's role in procuring and managing instructional Aids – Project and non-projected aids, multimedia, video-tele conferencing etc

IV	10		Measurement and evaluation: ❑ Concept and nature of measurement and evaluation, meaning, process, purposes, problems in evaluation and measurement. ❑ Principles of assessment, formative and summative assessment- internal assessment external examination, advantages and disadvantages. ❑ Criterion and norm referenced evaluation,
V	12	10	Standardized and non-standardized tests: ❑ Meaning, characteristics, objectivity, validity, reliability, usability, norms, construction of tests- • Essay, short answer questions and multiple-choice questions. • Rating scales, checklist, OSCE/OSPE (Objective structured clinical/practical examination) • Differential scales, and summated scales, sociometry, anecdotal record, attitude scale, critical incident technique ❑ Question bank-preparation, validation, moderation by panel, utilization ❑ Developing a system for maintaining confidentiality
VI	8	5	Administration, Scoring and Reporting ❑ Administering a test; scoring, grading versus marks ❑ Objective tests, scoring essay test, methods of scoring, Item analysis.
VII	12	6	Standardized Tools ❑ Tests of intelligence aptitude, interest, personality, achievement, socio-economic status scale, tests for special mental and physical abilities and disabilities.
VIII	5	6	Nursing Educational programs ❑ Perspectives of nursing education: Global and national. ❑ Patterns of nursing education and training programmes in India. Non-university and University programs: ANM, GNM, Basic B.Sc. Nursing, Post Certificate B.Sc. Nursing, M.Sc(N) programs, M.Phil and Ph.D) in Nursing, post basic diploma programs, nurse practitioner

			programs.
IX	12	25	Continuing Education in Nursing ❑ Concepts – Definition, importance, need scope, principles of adult learning, assessments of learning needs, priorities, resources. ❑ Program planning, implementation and evaluation of continuing education programs. ❑ Research in continuing education. ❑ Distance education in nursing.
X	10	10	Curriculum Development ❑ Definition, curriculum determinants, process and steps of curriculum development, Curriculum models, Types and framework. ❑ Formulation of philosophy, objectives, selection and organization of learning experiences; master plan, course plan, unit plan. ❑ Evaluation strategies, process of curriculum change, role of students, faculty, administrators, statutory bodies and other stakeholders. ❑ Equivalency of courses: Transcripts, credit system.
XI	8	4	Teacher preparation ❑ Teacher – roles & responsibilities, functions, characteristics, competencies, qualities, ❑ Preparation of professional teacher ❑ Organizing professional aspects of teacher preparation programs ❑ Evaluation: self and peer ❑ Critical analysis of various programs of teacher education in India.
XII	10	5	Guidance and counseling ❑ Concept, principles, need, difference between guidance and counseling, trends and issues. ❑ Guidance and counseling services: diagnostic and remedial. ❑ Coordination and organization of services. ❑ Techniques of counseling: Interview, casework, characteristics of counselor, problems in counseling. ❑ Professional preparation and training for counseling.

XIII	15	10	Administration of Nursing Curriculum ❑ Role of curriculum coordinator – planning, implementation and evaluation. ❑ Evaluation of educational programs in nursing-course and program. ❑ Factors influencing faculty staff relationship and techniques of working together. ❑ Concept of faculty supervisor (dual) position. ❑ Curriculum research in nursing. ❑ Different models of collaboration between education and service
XIV	10		Management of nursing educational institutions ❑ Planning, organizing, staffing, budgeting, recruitment, discipline, public relation, performance appraisal, welfare services, library services, hostel,
XV	5	5	❑ Development and maintenance of standards and accreditation in nursing education programs. ❑ Role of Indian Nursing Council, State Registration Nursing Councils, Boards and University. ❑ Role of Professional associations and unions.

Course Outcomes (Cos)

CO1	Remember is remembering, recognizing and recalling important concepts. It includes factual information with right and wrong answers.
CO2	Understand is the thought processes of interpreting, exemplifying, classifying, summarizing, inferring, comparing, and explaining of interpreting, translating from one medium to another and describing in one's own words.
CO3	Apply the various aspects of curriculum development,
CO4	Analyze the standardized tools
CO5	Develop curriculum for various nursing programmes
CO6	Create the new teaching learning strategies

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	2	1		2			2	2			2	1	2
CO2						1					1	1	2		2
CO3				1			2			1					2
CO4	2		3			1			1		1		1	2	2
CO5	1		1		3		1	2		2		2			
CO6		2	2	2	2		3	2		2		2	2	2	2

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

Activities:

- Framing philosophy, aims and objectives.
- Lesson Planning.
- Microteaching-2.
- Conduct practice teachings using different teaching strategies -10 (like lecture cum discussion, demonstration- lab method, field trips, seminars, project, role play, panel discussion, clinical method etc)
- Preparation and utilization of instructional Aids using different media.
- Develop course plans, unit plans, rotation plans.
- a continuing education workshops.
- Annotated bibliography.
- Critical evaluation of any nursing education program offered by a selected institution.
- Planning and Organizing field visits
- Educational visits.
- Field visits (INC/SNRC) to get familiar with recognition/registration process.
- Construct, administer and evaluate tools (objective & essay type test, observation checklist, rating scale etc.)

- Observe and practice application of various non-standardized tests (intelligence, Aptitude, Personality, Sociometry, physical & mental disabilities tests.)

Methods of Teaching

- Lecture cum discussion
- Demonstration/ Return demonstration
- Seminar / Presentations
- Projectwork
- Field visits
- Workshop

Methods of evaluation

- Tests
- Presentation
- Projectwork
- Written assignments

Internal Assessment

Techniques	Weightage
Test- (2 tests)	50
Assignment	25
Seminar/presentation	25

	100

Practical – Internal assessment	
Learning resource material	25
Practice Teaching	50
Conduct Workshop	25
/Short Term Course	
Practical – external assessment	
Practice teaching- 1-	50
Preparation/use of learning resource material-1	25
Construction of tests/rotation plan.	25

(19ANP02) ADVANCE NURSING PRACTICE

PLACEMENT-IYEAR

Hours of instruction	
Theory:150hours	Credit:7.5
Practical:200hours	Credit:10

Course Description

The course is designed to develop an understanding of concepts and constructs of theoretical basis of advance nursing practice and critically analyze different theories of nursing and other disciplines.

Objectives:

At the end of the course the students will be able to:

1. Appreciate and analyze the development of nursing as a profession.
2. Describe ethical, legal, political and economic aspects of health care delivery and nursing practice.
3. Explain bio- psycho- social dynamics of health, life style and health care delivery system.
4. Discuss concepts, principles, theories, models, approaches relevant to nursing and their application.
5. Describe scope of nursing practice.
6. Provide holistic and competent nursing care following nursing process approach.
7. Identify latest trends in nursing and the basis of advance nursing practice.
8. Perform extended and expanded role of nurse.
9. Describe alternative modalities of nursing care.
10. Describe the concept of quality control in nursing.
11. Identify the scope of nursing research.
12. Use computer in patient care delivery system and nursing practice.
13. Appreciate importance of self-development and professional advancement.

Unit	Hours	Content
I	10	Nursing as a Profession ❑ History of development of nursing profession, characteristics, criteria of the profession, perspective of nursing profession-national, global ❑ Code of ethics (INC), code of professional conduct (INC), autonomy and accountability, assertiveness, visibility of nurses, legal considerations, ❑ Role of regulatory bodies ❑ Professional organizations and unions-self-defense, individual and collective bargaining ❑ Educational preparations, continuing education, career opportunities, professional advancement & role and scope of nursing education. ❑ Role of research, leadership and management. ❑ Quality assurance in nursing (INC). ❑ Futuristic nursing.
II	5	Health care delivery ❑ Health care environment, economics, constraints, planning process, policies, political process vis a vis nursing profession. ❑ Health care delivery system- national, state, district and local level. ❑ Major stakeholders in the health care system-Government, non-govt, Industry and other professionals. ❑ Patterns of nursing care delivery in India. ❑ Health care delivery concerns, national health and family welfare programs, inter-sectoral coordination, role of non-governmental agencies. ❑ Information, education and communication (IEC). ❑ Tele-medicine.
III	10	Genetics ❑ Review of cellular division, mutation and law of inheritance, human genome project, The Genomic era. ❑ Basic concepts of Genes, Chromosomes & DNA. ❑ Approaches to common genetic disorders. ❑ Genetic testing – basis of genetic diagnosis, Pre symptomatic and predisposition testing, Prenatal diagnosis & screening, Ethical, legal & psychosocial issues in genetic testing. ❑ Genetic counseling. ❑ Practical application of genetics in nursing.

IV	10	Epidemiology ❑ Scope, epidemiological approach and methods, ❑ Morbidity, mortality, ❑ Concepts of causation of diseases and their screening, ❑ Application of epidemiology in health care delivery, Health surveillance and health informatics ❑ Role of nurse
V	20	Bio-Psycho social pathology ❑ Pathophysiology and Psychodynamics of disease causation ❑ Life processes, homeostatic mechanism, biological and psycho-social dynamics in causation of disease, lifestyle ❑ Common problems: Oxygen insufficiency, fluid and electrolyte imbalance, nutritional problems, hemorrhage and shock, altered body temperature, unconsciousness, sleep pattern and its disturbances, pain, sensory deprivation. ❑ Treatment aspects: pharmacological and pre- post-operative care aspects, ❑ Cardio pulmonary resuscitation. ❑ End of life Care ❑ Infection prevention (including HIV) and standard safety measures, bio-medical waste management. ❑ Role of nurse- Evidence based nursing practice; Best practices ❑ Innovations in nursing
VI	20	Philosophy and Theories of Nursing ❑ Values, Conceptual models, approaches. ❑ Nursing theories: Nightingale's, Henderson's, Roger's, Peplau's, Abdella's, Lewine's, Orem's, Johnson's, King's, Neuman's, Roy's, Watson's, etc and their applications, ❑ Health belief models, communication and management, etc ❑ Concept of Self health. ❑ Evidence based practice model.
VIII	10	Nursing process approach ❑ Health Assessment- illness status of patients/clients (Individuals, family, community), Identification of health-illness problems, health behaviors, signs and symptoms of clients. ❑ Methods of collection, analysis and utilization of data relevant to nursing process. ❑ Formulation of nursing care plans, health goals, implementation, modification and evaluation of care.

IX	30	Psychological aspects and Human relations ❑ Human behavior, Life processes & growth and development, personality development, defense mechanisms, ❑ Communication, interpersonal relationships, individual and group, group dynamics, and organizational behavior, ❑ Basic human needs, Growth and development, (Conception through preschool, School age through adolescence, Young & middle adult, and Older adult) ❑ Sexuality and sexual health. ❑ Stress and adaptation, crisis and its intervention, ❑ Coping with loss, death and grieving, ❑ Principles and techniques of Counseling.
X	10	Nursing practice ❑ Framework, scope and trends. ❑ Alternative modalities of care, alternative systems of health and complementary therapies. ❑ Extended and expanded role of the nurse, in promotive, preventive, curative and restorative health care delivery system in community. ❑ Health immunity and institutions. ❑ Health promotion and primary healthcare. ❑ Independent practice issues, - Independent nurse-midwifery practitioner. ❑ Collaboration issues and models-within and outside nursing. ❑ Models of Prevention, ❑ Family nursing, Home nursing, ❑ Gender sensitive issues and women empowerment. ❑ Disaster nursing. Geriatric considerations in nursing. ❑ Evidence based nursing practice- Best practices ❑ Trans-cultural nursing.
XI	25	Computer applications for patient care delivery system and nursing practice ❑ Use of computers in teaching, learning, research and nursing practice. ❑ Windows, MS Office: Word, Excel, PowerPoint, ❑ Internet, literature research, ❑ Statistical packages, ❑ Hospital management information system: software's.

Course outcomes (Cos)

CO1	Appreciate and analyze the development of nursing as a profession
CO2	Describe ethical, legal, political and economic aspects of health care delivery and nursing practice.
CO3	Explain bio-psycho-social dynamics of health, life style and health care delivery system
CO4	Discuss concepts, principles, theories, models, approaches relevant to nursing and their application
CO5	Describe scope of nursing practice.
CO6	Provide holistic and competent nursing care following nursing process approach

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1		2	2	2	3	3		2	2	2	2		2		2
CO2		2	2	1				1		2			2		2
CO3	1				2	2				2	1		2		2
CO4	2						2			2	1		2	2	2
CO5	2	2	2	1	2	2						2			2
CO6	2	2	2	1	2				2	2	2	2			2

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

Practical

Clinical posting in the following areas:

Specialty area- in-patient unit	- 2 weeks
Community health center/PHC	- 2 weeks
Emergency/ICU	- 2 weeks

Activities

- Prepare Case studies with nursing process approach and theoretical basis
- Presentation of comparative picture of theories
- Family case- work using model of prevention
- Annotated bibliography
- Report of field visits (5)

Methods of Teaching

- Lecture cum discussion
- Seminar
- Panel discussion
- Debate
- Case Presentations
- Exposure to scientific conferences
- Field visits

Methods of evaluation:

- Tests
- Presentation
- Seminar
- Written assignments

Advance nursing Procedures

Definition, Indication and nursing implications; CPR, TPN, Hemodynamic monitoring, Endotracheal intubation, Tracheostoma, mechanical ventilation, Pacemaker, Hemodialysis, Peritoneal dialysis, LP, BT Pleural and abdominal paracentesis OT techniques, Health assessment, Triage, Pulse oximetry.

Internal Assessment

Techniques	Weightage
Test- (2 tests)	50
Assignment	25
Seminar/presentation	25

	100

(19NRS03)- NURSING RESEARCH AND STATISTICS

PLACEMENT-IYEAR

**Theory:150hours
Practical:100hours**

**Credit:7.5
Credit:5**

PART – A- NURSING RESEARCH

**Theory:100hours
Practical:50hours**

**Credit:5
Credit:2.5**

Course Description

The course is designed to assist the students to acquire an understanding of the research methodology and statistical methods as a basis for identifying research problem, planning and implementing a research plan. It will further enable the students to evaluate research studies and utilize research findings to improve quality of nursing practice, education and management

General Objectives:

At the end of the course, the students will be able to:

1. Define basic research terms and concepts.
2. Review literature utilizing various sources
3. Describe research methodology
4. Develop a research proposal.
5. Conduct a research study.
6. Communicate research findings
7. Utilize research findings
8. Critically evaluate nursing research studies.
9. Write scientific paper for publication.

Content Outline

Unit	Hours		Course Content
	Theory	Practical	
I	10		Introduction: ❑ Methods of acquiring knowledge – problem solving and scientific method. ❑ Research – Definition, characteristics, purposes, kinds of research ❑ Historical Evolution of research in nursing ❑ Basic research terms ❑ Scope of nursing research: areas, problems in nursing, health and social research ❑ Concept of evidence-based practice ❑ Ethics in research ❑ Overview of Research process
II	5	5	Review of Literature ❑ Importance, purposes, sources, criteria for selection of resources and steps in reviewing literature.
III	12		Research Approaches and designs ❑ Type: Quantitative and Qualitative ❑ Historical, survey and experimental – Characteristics, types advantages and disadvantages ❑ Qualitative: Phenomenology, grounded theory, ethnography
IV	10	5	Research problem: ❑ Identification of research problem ❑ Formulation of problem statement and research objectives ❑ Definition of terms ❑ Assumptions and delimitations ❑ Identification of variables ❑ Hypothesis – definition, formulation and types.
V	5	5	Developing theoretical/conceptual framework. ❑ Theories: Nature, characteristics, Purpose and uses ❑ Using, testing and developing conceptual framework, models and theories.

VI	6		Sampling ❑ Population and sample ❑ Factors influencing sampling ❑ Sampling techniques ❑ Sample size ❑ Probability and sampling error ❑ Problems of sampling
VII	20	10	Tools and methods of Data collection: ❑ Concepts of data collection ❑ Data sources, methods/techniques quantitative and qualitative. ❑ Tools for data collection – types, characteristics and their development ❑ Validity and reliability of tools ❑ Procedure for data collection
VIII	5		Implementing research plan ❑ Pilot Study, review research plan (design)., planning for data collection, administration of tool/interventions, collection of data
IX	10	10	Analysis and interpretation of data ❑ Plan for data analysis: quantitative and qualitative ❑ Preparing data for computer analysis and presentation. ❑ Statistical analysis ❑ Interpretation of data ❑ Conclusion and generalizations ❑ Summary and discussion
X	10		Reporting and utilizing research findings: ❑ Communication of research results; oral and written ❑ Writing research report purposes, methods and style- Vancouver, American Psychological Association (APA), Campbell etc ❑ Writing scientific articles for publication: purposes & style
XI	3	8	Critical analysis of research reports and articles
XII	4	7	Developing and presenting a research proposal

Course Outcomes(Cos)

CO1	Remember the research process and significance of statistics
CO2	Understand the research problem and objectives and sampling methods
CO3	Apply or implement the nursing interventions to collect the data
CO4	Analyse and interpret the data using descriptive and inferential statistics
CO5	Develop and evaluate research proposal and prepare the data tabulation.
CO6	Create and conduct a group/individual research project and communicate the research findings.

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	2	2	1		2			2	2	2		2	1	2
CO2		2	2			1					2	1	2		2
CO3		3		1			2			1	2		2		2
CO4	2					1			1		1		2	2	2
CO5	1	2	2	2	2		2	2		2		2			
CO6		2	2	2	2		2	2		2		2	2	2	2

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

Activities:

- Annotated Bibliography of research reports and articles.
- Review of literature of selected topic and reporting
- Formulation of problem statement, objective and hypothesis
- Developing theoretical/conceptual framework.
- Preparation of a sample research tool

- Analysis and interpretation of given data
- Developing and presenting research proposal
- Journal club presentation
- Critical evaluation of selected research studies
- Writing a scientific paper

Method of Teaching

- Lecture-cum-discussion
- Seminar/Presentations
- Project
- Class room exercises
- Journal club

Methods of Evaluation

- Quiz, Tests (Term)
- Assignments/Term paper
- Presentations
- Project work

Internal Assessment

Techniques	Weightage (15 marks)
Term Test (2 tests)	40%
Assignment	20%
Presentation	20%
Project work	20%
Total	100%

PART – B- STATISTICS

Theory :50 hours Credit:2.5

Practical :50 hours Credit:2.5

Course Description

At the end of the course, the students will be able to develop an understanding of the statistical methods and apply them in conducting research studies in nursing.

General Objectives

At the end of the course the students will be able to:

1. Explain the basic concepts related to statistics
2. Describe the scope of statistics in health and nursing
3. Organize, tabulate and present data meaningfully.
4. Use descriptive and inferential statistics to predict results.
5. Draw conclusions of the study and predict statistical significance of the results.
6. Describe vital health statistics and their use in health-related research.
7. Use statistical packages for data analysis

Unit	Hours		Course Content
	Theory	Practical	
I	7	4	Introduction: ❑ Concepts, types, significance and scope of statistics, meaning of data, ❑ sample, parameter ❑ type and levels of data and their measurement ❑ Organization and presentation of data – Tabulation of data; ❑ Frequency distribution ❑ Graphical and tabular presentations.
II	4	4	Measures of central tendency: ❑ Mean, Median, Mode
III	4	5	Measures of variability; ❑ Range, Percentiles, average deviation, quartile

			deviation, standard deviation
IV	3	2	Normal Distribution: ☐ Probability, characteristics and application of normal probability curve; sampling error.
V	6	8	Measures of relationship: ☐ Correlation – need and meaning ☐ Rank order correlation; ☐ Scatter diagram method ☐ Product moment correlation ☐ Simple linear regression analysis and prediction.
VI	5	2	Designs and meaning: ☐ Experimental designs ☐ Comparison in pairs, randomized block design, Latin squares.
VII	8	10	Significance of Statistic and Significance of difference between two Statistics (Testing hypothesis) ☐ Non parametric test – Chi-square test, Sign, median test, Mann Whitney test. ☐ Parametric test – ‘t’ test, ANOVA, MANOVA, ANCOVA
VIII	5	5	Use of statistical methods in psychology and education: ☐ Scaling – Z Score, Z Scaling ☐ Standard Score and T Score ☐ Reliability of test Scores: test-retest method, parallel forms, split half method.
IX	4	2	Application of statistics in health: ☐ Ratios, Rates, Trends ☐ Vital health statistics – Birth and death rates. ☐ Measures related to fertility, morbidity and mortality
X	4	8	Use of Computers for data analysis ☐ Use of statistical package.

Activities

- Exercises on organization and tabulation of data,
- Graphical and tabular presentation of data
- Calculation of descriptive and inferential statistics (chi square, t-test, correlation)
- Practice in using statistical package
- Computing vital health statistics

Methods of Teaching:

- Lecture-cum-discussion
- Demonstration – on data organization, tabulation, calculation of statistics, use of statistical package, Classroom exercises, organization and tabulation of data,
- Computing Descriptive and inferential statistics; vital and health statistics and use of computer for data entry and analysis using statistical package.

Methods of Evaluation

- Test, Classroom statistical exercises.

Internal Assessment

Techniques

Weightage 10 marks

Test – (2 tests)

100%

(19PEN04) - CLINICAL SPECIALITY I PAEDIATRIC NURSING

PLACEMENT-IYEAR

Theory:150hours

Credit:7.5

Practical:650hours

Credit:32.5

Course Description

This course is designed to assist students in developing expertise and in- depth understanding in the field of Pediatric Nursing. It will help students to appreciate the child as a holistic individual and develop skill to function as neonatal and pediatric nurse specialist. It will further enable the student to function as educator, manager, and researcher in the field of Paediatric nursing

Objectives

At the end of the course the students will be able to:

1. Appreciate the history and developments in the field of pediatrics and pediatric nursing as a specialty
2. Apply the concepts of growth and development in providing care to the pediatric clients and their families.
3. Appreciate the child as a holistic individual
4. Perform physical, developmental, and nutritional assessment of pediatric clients
5. Apply nursing process in providing nursing care to neonates & children
6. Integrate the concept of family centered pediatric nursing care with related areas such as genetic disorders, congenital malformations and long term illness.
7. Recognize and manage emergencies in neonates
8. Describe various recent technologies and treatment modalities in the management of high risk neonates
9. Appreciate the legal and ethical issues pertaining to pediatric and neonatal nursing
10. Prepare a design for layout and management of neonatal units
11. Incorporate evidence based nursing practice and identify the areas of research in the field of pediatric/neonatal nursing
12. Recognize the role of pediatric nurse practitioner and as a member of the pediatric and neonatal health team
13. Teach pediatric nursing to undergraduate students & in-service nurses

Course Content

Unit	Hours	Content
I	10	Introduction □ Historical development of Pediatrics and Pediatric Nursing in India; □ Current status of child health in India; □ Trends in Pediatrics and Pediatric Nursing, □ Ethical and cultural issues in pediatric care □ Rights of children □ National health policy for children, special laws and ordinances relating to children. □ National goals, □ Five year plans, □ National health programs related to child health.
II	10 Hrs	Assessment of pediatric clients □ History taking □ Developmental assessment □ Physical assessment □ Nutritional assessment □ Family assessment
III	10	Hospitalized child □ Meaning of hospitalization of the child, preparation for hospitalization, effects of hospitalization on the child and family □ Stressors and reactions related to developmental stages, play activities for ill hospitalized child. □ Nursing care of hospitalized child and family -principles and practices
IV	15	Pre-natal Pediatrics □ Embryological and fetal development, Prenatal factors influencing growth and development of fetus, □ Genetic patterns of common pediatric disorders, chromosomal aberrations, genetic assessment and counseling legal and ethical aspects of genetic, screening and counseling role of nurse in genetic counseling, □ Importance of prenatal care and role of pediatric nurse.
V	15	Growth and Development of children □ Principles of growth and development, □ Concepts and theories of growth and development, □ Developmental tasks and special needs from infancy to adolescence, developmental milestones, □ Assessment of growth and development of pediatric clients, □ Factors affecting growth and development.
VI	15	Behavioral Pediatrics and Pediatric Nursing □ Parent child relationship, □ Basic behavioral pediatric principles and specific behavioral pediatric concepts/disorders- maternal deprivation, failure

Unit	Hours	Content
		to thrive, child abuse, the battered child, □ Common behavioral problems and their management, □ Child guidance clinic.
VII	15	Preventive Pediatrics and Pediatric Nursing □ Concept, aims and scope of preventive pediatrics, □ Maternal health and its influence on child health antenatal aspects of preventive pediatrics, □ Immunization, expanded program on immunization/ universal immunization program and cold chain, □ Nutrition and nutritional requirements of children, changing patterns of feeding, baby- friendly hospital initiative and exclusive breast feeding, □ Health education, nutritional education for children □ Nutritional programs □ National and international organizations related to child health, Role of pediatric nurse in the hospital and community.
VIII	30	Neonatal Nursing □ New born baby- profile and characteristics of the new born, □ Assessment of the new born, □ Nursing care of the new born at birth, care of the new born and family, □ High risk newborn- pre term and term neonate and growth retarded babies, □ Identification and classification of neonates with infections, HIV & AIDS, Ophthalmia neonatorum, congenital syphilis. □ High risk new born- Identification, classification and nursing management □ Organization of neonatal care, services (Levels), transport, neonatal intensive care unit, organization and management of nursing services in NICU.
IX	30	IMNCI (Integrated management of neonatal and childhood illnesses)

Course Outcomes (Cos)- Clinical Speciality-I (PAEDIATRIC NURSING)

CO1	Remember the understanding of the History and Modern concepts of Child Health and Child Care.
CO2	Understand the Normal growth and development of children at different age.
CO3	Apply nursing process in providing nursing care to neonates & children.
CO4	Analyse and Describe the etiological, pathophysiology, clinicalmanifestation and nursing Management of children with various disorders.
CO5	Evaluate and identify the child as a holistic individual
CO6	Create the concept of family centered pediatric nursing care with related areas such as genetic disorders, congenital malformations and long term illness

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2				1	2		1	1	2	1	1		1	1
CO2						3						2		1	2
CO3	1	3	1			2		1	3	1	3	1		2	1
CO4	3	1	2			1	2	1	3	1	1	3			1
CO5										2					3
CO6	1	1	3		2	1	3	1		1	1	2	1	2	1

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

Practical

Total = 960 Hours
1 Week = 30 Hours

S.No.	Deptt./Unit	No. of Week	Total Hours
1	Pediatric Medicine Ward	4	120 Hours
2	Pediatric Surgery Ward	4	120 Hours
3	Labor Room/Maternity Ward	2	60 Hours
4	Pediatric OPD	2	60 Hours
5	NICU	4	120 Hours
6	Creche	1	30 Hours
7	Child Guidance Clinic	1	30 Hours
8	Community	4	120 Hours
	Total	22 Weeks	660 Hours

Student Activities

- ☐ Clinical presentations
- ☐ Growth & developmental assessment
- ☐ Assessment & prescription of nursing interventions for sick children
- ☐ Health education related to disease conditions
- ☐ Nutritional assessment
- ☐ Project work
- ☐ Field visits

ELECTIVE COURSE

19ECPCN01 CLINICAL NUTRITION

Introduction: This course examines the application of nutrition and dietetics knowledge in the field of child and family health and nutrition, with an emphasis on rural issues. The course aims to develop a holistic approach to optimizing the nutritional health of this group.

COURSE OBJECTIVE

1. Demonstrate a thorough knowledge of the theory of human nutrition and dietetics as it applies to paediatrics.
2. Apply knowledge of food, nutrition, dietetics and health to the nutritional management to child and adolescents.
- 3 Discuss the pediatrics feeding problem in hospital..

Unit	Learning Objective	Content	Hrs
I	Demonstrate the nutritional and growth assessment.	ASSESSMENT a)Nutritional and Growth Assessment b)Breastfeeding, infant formula preparation and introducing solids c)Common Nutrition-Related Problems	T (10) P (10)
II	Apply knowledge of food, nutrition, dietetics and health to the nutritional management to child and adolescents.	NUTRITION MANAGEMENT a)Nutrition Support b)Child and Adolescent Obesity c) Managing Paediatric	T (10)

		Nutrition and Dietetics in the Rural Context.	
III	Discuss the pediatrics feeding problem in hospital.	HOSPITAL AND DIETS a)Routine hospital diets b)problems in feeding children in Hospitals c)Communicating Nutrition messages to children, adolescents and families	T (10)

Teaching- Learning Strategies

- (i) Lecture cum Discussion
- (ii) Seminar
- (iii) Lab – Nutritional and Growth Assessment , formula preparation
- (iv) Demonstration
- (v) Assignments

Assessment Techniques of each topic of the course

S.No	Topic	Assessment Techniques
1.	ASSESSMENT	Short answer,nutritional and growth assessment, demonstration on formula preparation.
2.	NUTRITION MANAGEMENT	Short answers, Descriptive type, nutrition support
3.	HOSPITAL AND DIETS CHALLENGES	Descriptive type, Health Education, Return demonstration

19ECL02 LACTATION

Introduction: This course is designed for developing an understanding and supporting the new mothers to initiate the breast feeding. A lactation nurse is a nurse that specializes in the clinical management of lactation and breastfeeding. Lactation nurse are specialists in training mothers how to breastfeed their babies. The lactation nurse provides the majority of breastfeeding education during the postpartum period but may begin their consultation and education during a woman's pregnancy. A lactation nurse provides breastfeeding support, assists with lactation care, and educates patients to overcome obstacles and concerns with breastfeeding.

Course objective

- a) Explain the importance of assessment Assist families with initiation, establishment and continuation of breastfeeding.
- b) Describe the management related to breastfeeding
- c) Discuss the various breastfeeding challenges.

Unit	Learning Objective	Content	Hrs
I	Explain the importance of assessment	ASSESSMENT a)Structure of the Female Adult breast and infant oral anatomy b)Stages of Lactation c)Infant Reflexes and Sucking d)Growth monitoring	T (10) P (5)
II	Describe the management related to breastfeeding	MANAGEMENT a)Breastfeeding Support b)Positioning and attachment c)Expressing breast milk d)Storage and use of EBM (Expressed breast Milk) e)Skin to skin care f)Breastfeeding mother meals	T (10) P (5)

III	Discuss the various breastfeeding challenges.	BREASTFEEDING CHALLENGES a) Absence of Mother b) No EBM available c) Low breast milk supply d) EBM for Procedural Pain Management e) Maternal Considerations	T (10)

Teaching- Learning Strategies

- a) Lecture cum Discussion
- b) Seminar
- c) Lab – Assessment, breastfeeding support and lactation techniques
- d) Demonstration
- e) Assignments

Assessment Techniques of each topic of the course

S.No	Topic	Assessment Techniques
1.	ASSESSMENT	Short answer, Female Adult breast and infant oral assessment, Stages of Lactation, Infant Reflexes and Sucking assessment, Growth monitoring
2.	MANAGEMENT RELATED TO BREASTFEEDING	Short answers, Descriptive type, breast feeding support, poisoning and attachment, demonstration of Expressing breast milk.
3.	BREASTFEEDING CHALLENGES	Descriptive type, Health Education, Return demonstration

19ECCD03- CHILD DEVELOPMENT

Introduction: This course is designed to study of child development generally observes five specific areas: motor and physical, cognitive, social and emotional, communication, and adaptive abilities. In assessing child development, child behavior is monitored through multiple child development stages – from baby development up until adolescence. Specific developmental milestones are tracked at various stages, with close attention paid to baby milestones. Academic work in child development also seeks to determine the effects of child care, parenting traits, and early childhood education on a person's overall development. Research in these areas is the backbone of many child development theories.

Course Objective

1. Summarize principles of growth and development.
2. Concept of Inclusive Education and Understanding Children with Special Needs.
3. Learning and Pedagogy

UNIT	LEARNING OBJECTIVES	SUMMARY OF COURSE CONTENT	HRS
I.	Explain about the principles of growth and development	Principles of growth and development. • Theories of Development(.Psychosocial Development, Biosocial Development, Cognitive Development, Psychosocial Development) • Heredity and Environment. • Embryological and fetal development, Prenatal factors influencing growth and development of fetus, • Genetic patterns of common pediatric disorders, chromosomal aberrations, genetic assessment and counselling legal and ethical aspects of genetic, screening and counselling role of nurse in genetic counselling, • Importance of prenatal care and role of pediatric nurse.	T(10)
II.	Describe the Concept of	Concept of Inclusive Education and Understanding Children with Special Needs	T(10) P(5)

	Inclusive Education and Understanding Children with Special Needs.	- Addressing the Creative, Talented, specially abled Learners, - Addressing the requirements of children with learning difficulties 'impairment', etc - Addressing learners from diverse backgrounds including the Deprived and Disadvantaged	
III.	Discuss the Learning and Pedagogy	Learning and Pedagogy - Basic processes of teaching and learning ; Children's Strategies of Learning; Learning as a Social Activity; Social Context of Learning - Child as a problem solver and and a 'scientific investigator' - Factors contributing to learning – Personal and environmental - Motivation Learning - Cognition and Emotions - Alternative Conceptions of Learning in Children; Understanding children 'errors' as significant steps in the learning process	T(10) P (5)

1. Teaching- Learning Strategies

- (i) Lecture cum Discussion
- (ii) Seminar
- (iii) Case Presentations
- (iv) Research projects
- (v) Class room Exercises
- (vi) Demonstration
- (vii) Assignments

1. Assessment Techniques of each topic of the course

S.No	Topic	Assessment Techniques
1.	Principles of growth and development.	Short answer
2.	Concept of Inclusive Education and Understanding Children with Special Needs	Assignment, Paediatric assessment, Short answers
3.	Learning and Pedagogy	Descriptive type, Short answer

19ECP04- PARENTING

Introduction of the Course: This course is designed for the primary goal of [parenting classes and] parent support programs is to provide support and information in ways that help parents become more capable and competent. In-person parenting classes provide a great deal of support and community by connecting you with parents and advisors who can help you navigate the hardest phases you'll go through while raising kids.

Course Objective

1. Introduction to Parenting Skills.
2. Temperament.
3. Communicating with Kids.

UNIT	LEARNING OBJECTIVES	SUMMARY OF COURSE CONTENT	HRS
I.	Explain about the parenting skills.	Introduction to Parenting Skills • What are parenting skills? • What makes for a good parent? • What is the mission of a parent? • Raising responsible kids who will be responsible adults. • Cultural differences in parenting. • Understanding Child Development. • Overview of how a child develops mentally. • Having realistic expectations in accordance with age. • Separations and attachment parenting	T(15)
II.	Describe about the understanding of Temperament.	Understanding Temperament • Define Temperament. • Parenting those with difficult personalities, strong-willed personalities, or personality disorders (including issues such as ADD/ADHD) • Parenting teenagers. Encouraging Intellectual Development • Teaching habits to encourage learning	T(15)

		• Handling homework and studying • Motivating children to study, do chores, etc. • Practice in the arts. • Modeling achievements. • Setting expectations	
III.	Enumerate about the communicating with kids.	Communicating with Kids • Listening. • Respecting their feelings. • Teaching them how to effectively communicate and handle their anger • Identifying and handling power struggles. The Dynamics of Discipline • What is discipline? • Having consequences, consistency and accountability. • Using positive discipline. • Uniting parents, caregivers, relatives, etc. • Addressing sibling rivalry. • Take-charge techniques for parents Instilling Self Esteem In Your Child • Empowering children • Effective praise. • Avoiding over-praise and why it is important. • Character building. • Teaching your child tolerance	T(10)

1. Teaching- Learning Strategies

- (viii) Lecture cum Discussion
- (ix) Seminar
- (x) Case Presentations
- (xi) Research projects
- (xii) Class room Exercises
- (xiii) Assignments.

2. Assessment Techniques of each topic of the course

S.No	Topic	Assessment Techniques
1.	Introduction to Parenting Skills	Short answer, Assignments.
2.	Describe temperament and explain the Intellectual Development.	Assignment, Short answers
3.	Describe Communicating with Your Kids and The Dynamics of Discipline.	Descriptive type, Short answer

19ECCP03 - CHILD PSYCHIATRY

Introduction

This course is designed to familiarize the student with the range of child, psychological disorders seen in clinical practice across the lifespan. Emphasis will be placed on developmental factors, diagnostic issues, theoretical formulations, etiology, evidence-based treatments, and research findings related to each of these conditions. Issues such as comorbidity (simultaneous presentation of two or more disorders), cultural influences on the expression of mental disorders, and psychological factors related to physical conditions will also be considered. The clinical manifestations of each of these conditions will be illustrated through the use of case examples and or video presentation

Course Objective:

1. To develop an understanding of child psychiatry
2. To examine the effects of mind-body relaxation techniques in treating mental disorders
3. To develop a healthy habit and lifestyle.
4. To develop humane values in child psychiatry
5. To develop physical, emotional and mental health through yogic activities.

Unit	Learning Objective	Content	Hrs
I	Explain the importance of diagnostic procedures in child Psychiatry	Diagnostic procedures and etiological factors MRI, CT scan lab findings	T (10) P (3)

II	Describe developmental factors related to manifestation of these disorders	➤ implement the knowledge of the relevance of developmental factors as they are related to the manifestations of these disorders across the life span	T (10) P (5)
III	Discuss the various treatment methods and create class format over the course	Analyze the knowledge of current research findings relevant to these disorders Develop the relevance of cultural factors to the development, diagnosis, outcome and treatment of these conditions Create Class Format Over the course Relaxation techniques Music ➤ Play therapy ➤ Therapeutic play ➤ Mindfulness Music therapy ➤ Evidence based studies ➤ Issues and importance	T (10) P (2)

4. Teaching- Learning Strategies

1. Lecture cum Discussion
2. Seminar
3. Lab – yoga and relaxation techniques particles
4. Demonstration
5. Assignments

1. Assessment Techniques of each topic of the course

S.No	Topic	Assessment Techniques
1.	Diagnostic procedures and etiological factors MRI, CT scan lab findings	Short answer Demonstration
2.	Implement the knowledge of the relevance of developmental factors as they are related to the manifestations of these disorders across the life span	Short answers, Descriptive type, Mental Assessment Test
3.	Analyse the knowledge of current research findings relevant to these disorders Develop the relevance of cultural factors to the development, diagnosis, outcome and treatment of these conditions Create Class Format Over the course	Descriptive type, Health Education Return demonstration

(19NM05)- NURSING MANAGEMENT

PLACEMENT-II YEAR

Hours of instruction

Theory:150hours Credit:7.5

Practical:150hours Credit:7.5

Course Description

This course is designed to assist students to develop a broad understanding of Principles, concepts, trends and issues related to nursing management. Further, it would provide opportunity to students to understand, appreciate and acquire skills in planning, supervision and management of nursing services at different levels to provide quality nursing services.

Objectives

At the end of the course, students will be able to:

1. Describe the philosophy and objectives of the health care institutions at various levels.
2. Identify trends and issues in nursing
3. Discuss the public administration, health care administration vis a vis nursing administration
4. Describe the principles of administration applied to nursing
5. Explain the organization of health and nursing services at the various levels/institutions.
6. Collaborate and co-ordinate with various agencies by using multi-sectoral approach
7. Discuss the planning, supervision and management of nursing workforce for various health care settings.
8. Discuss various collaborative models between nursing education and nursing service to improve the quality of nursing care
9. Identify and analyze legal and ethical issues in nursing administration
10. Describe the process of quality assurance in nursing services.
11. Demonstrate leadership in nursing at various levels

Course Content

Unit	Hours	Content
I	10	Introduction ❑ Philosophy, purpose, elements, principles and scope of administration ❑ Indian Constitution, Indian Administrative system vis a vis health care delivery system: National, State and Local ❑ Organization and functions of nursing services and education at National, State, District and institutions: Hospital and Community ❑ Planning process: Five-year plans, Various Committee Reports on health, State and National Health policies, national population policy, national policy on AYUSH and plans,
II	10	Management ❑ Functions of administration ❑ Planning and control ❑ Co-ordination and delegation ❑ Decision making – decentralization basic goals of decentralization. ❑ Concept of management Nursing management ❑ Concept, types, principles and techniques ❑ Vision and Mission Statements ❑ Philosophy, aims and objective ❑ Current trends and issues in Nursing Administration ❑ Theories and models Application to nursing service and education
III	15	Planning ❑ Planning process: Concept, Principles, Institutional policies ❑ Mission, philosophy, objectives, ❑ Strategic planning ❑ Operational plans ❑ Management plans ❑ Programme evaluation and review technique (PERT), Gantt chart, Management by objectives (MBO) ❑ Planning new venture ❑ Planning for change ❑ Innovations in nursing Application to nursing service and education

IV	15	Organization ❑ Concept, principles, objectives, Types and theories, Minimum requirements for organization, Developing an organizational Structure, levels, organizational Effectiveness and organizational Climate, ❑ Organizing nursing services and patient care: Methods of patient assignment- Advantages and disadvantages, primary nursing care, ❑ Planning and Organizing: hospital, unit and ancillary services (specifically central sterile supply department, laundry, kitchen, laboratory services, emergency etc) ❑ Disaster management: plan, resources, drill, etc Application to nursing service and education
V	15	Human Resource for health ❑ Staffing • Philosophy • Norms: Staff inspection unit (SIU), Bajaj Committee, High power committee, Indian nursing council (INC) • Estimation of nursing staff requirement- activity analysis • Various research studies ❑ Recruitment: credentialing, selection, placement, promotion ❑ Retention ❑ Personnel policies ❑ Termination ❑ Staff development programme ❑ Duties and responsibilities of various category of nursing personnel Applications to nursing service and education
VI	15	Directing ❑ Roles and functions ❑ Motivation: Intrinsic, extrinsic, Creating motivating climate, Motivational theories ❑ Communication: process, types, strategies, Interpersonal communication, channels, barriers, problems, Confidentiality, Public relations ❑ Delegation; common delegation errors ❑ Managing conflict: process, management, negotiation, consensus ❑ Collective bargaining: health care labour laws, unions,

		professional associations, role of nurse manager ❑ Occupational health and safety Application to nursing service and education
VII	10	Material management ❑ Concepts, principles and procedures ❑ Planning and procurement procedures: Specifications ❑ ABC analysis, ❑ VED (very important and essential daily use) analysis ❑ Planning equipments and supplies for nursing care: unit and hospital ❑ Inventory control ❑ Condemnation Application to nursing service and education
VIII	15	Controlling ❑ Quality assurance – Continuous Quality Improvement • Standards • Models • Nursing audit ❑ Performance appraisal: Tools, confidential reports, formats, Management, interviews ❑ Supervision and management: concepts and principles ❑ Discipline: service rules, self-discipline, constructive versus destructive discipline, problem employees, disciplinary proceedings- enquiry etc ❑ Self-evaluation or peer evaluation, patient satisfaction, utilization review Application to nursing service and education
IX	15	Fiscal planning ❑ Steps ❑ Plan and non-plan, zero budgeting, mid-term appraisal, capital and revenue ❑ Budget estimate, revised estimate, performance budget ❑ Audit ❑ Cost effectiveness ❑ Cost accounting ❑ Critical pathways ❑ Health care reforms ❑ Health economics ❑ Health insurance ❑ Budgeting for various units and levels Application to nursing service and education

X	10	Nursing informatics □ Trends □ General purpose □ Use of computers in hospital and community □ Patient record system □ Nursing records and reports □ Management information and evaluation system (MIES) □ E- nursing, Telemedicine, telenursing □ Electronic medical records
XI	10	Leadership □ Concepts, Types, Theories □ Styles □ Manager behavior □ Leader behavior □ Effective leader: Characteristics, skills □ Group dynamics □ Power and politics □ lobbying □ Critical thinking and decision making □ Stress management Applications to nursing service and education
XII	10	Legal and ethical issues Laws and ethics □ Ethical committee □ Code of ethics and professional conduct □ Legal system: Types of law, tort law, and liabilities □ Legal issues in nursing: negligence, malpractice, invasion of privacy, defamation of character □ Patient care issues, management issues, employment issues □ Medico legal issues □ Nursing regulatory mechanisms: licensure, renewal, accreditation □ Patients' rights, Consumer protection act (CPA) □ Rights of special groups: children, women, HIV, handicap, ageing □ Professional responsibility and accountability □ Infection control □ Standard safety measures

COURSE OUTCOMES (Cos)

CO1	Describe the philosophy and objectives of the Health care institution at various level
CO2	Identify trends and issues in Nursing
CO3	Discuss the public administration, health care administration vis a vis Nursing administration
CO4	Describe the Principles of administration applied to Nursing
CO5	Explain the organization of Health and Nursing services at the various level
CO6	Identify and analyse legal and ethical issues in Nursing Administration

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	2	2	1		2			2	2	2		2	1	2
CO2		2	2			1					2	1	2		2
CO3		3		1			2			1	2		2		2
CO4	2					1			1		1		2	2	2
CO5	1	2	2	2	2		2	2		2		2			
CO6		2	2	2	2		2	2		2		2	2	2	2

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

PRACTICALS

- Prepare prototype personal files for staff nurses, faculty and cumulative records
- Preparation of budget estimate, Revised estimate and performance budget
- Plan and conduct staff development programme
- Preparation of Organization Chart
- Developing nursing standards/protocols for various units
- Design a layout plan for specialty units /hospital, community and educational institutions
- Preparation of job description of various categories of nursing personnel
- Prepare list of equipment and supplies for specialty units
- Assess and prepare staffing requirement for hospitals, community and educational institutions
- Plan of action for recruitment process
- Prepare a vision and mission statement for hospital, community and educational institutions
- Prepare a plan of action for performance appraisal
- Identify the problems of the specialty units and develop plan of action by using problem solving approach
- Plan a duty roster for specialty units/hospital, community and educational institutions
- Prepare: anecdotes, incident reports, day and night reports, handing and taking over reports, enquiry reports, nurses notes, Official letters, curriculum vitae, presentation etc
- Prepare a plan for disaster management
- Groupwork
- Field appraisal report

**(19PEN06) - CLINICAL SPECIALTY –II
PEDIATRIC (CHILD HEALTH) NURSING**

Hours of Instruction

Theory 150 hours Credit: 7.5

Practical 950hours Credit: 47.5

COURSE DESCRIPTION:

This course is designed to assist students in developing expertise and indepth understanding in the field of Pediatric Nursing. It will help students to develop advanced skills for nursing intervention in various pediatric medical and surgical conditions. It will enable the student to function as pediatric nurse practitioner/specialist. It will further enable the student to function as educator, manager, and researcher in the field of Paediatric nursing

OBJECTIVES:

At the end of the course the students will be able to:

1. Apply the nursing process in the care of ill infants to pre adolescents in hospital and community
2. Demonstrate advanced skills/competence in nursing management of children with medical and surgical problems
3. Recognize and manage emergencies in children
4. Provide nursing care to critically ill children
5. Utilize the recent technology and various treatment modalities in the management of high risk children
6. Prepare a design for layout and describe standards for management of pediatric units/hospitals
7. Identify areas of research in the field of pediatric nursing

COURSE CONTENT:

Units	Hours	Content
I	5	INTRODUCTION: ● Current principles, practices and trends in Pediatric Nursing ● Role of pediatric nurse in various settings -Expanded and extended
II	35	● Patho-physiology, assessment (including interpretation of various invasive and non-invasive diagnostic procedures), treatment modalities and nursing intervention in selected pediatric medical disorders ● Child with respiratory disorders: - Upper respiratory tract: choanal atresia, tonsillitis, epistaxis, aspiration. - Lower respiratory tract: Broncheolitis, Bronchopneumonia, Asthma, cystic fibrosis ● Child with gastro-intestinal disorders: - Diarrheal diseases, gastro-esophageal reflux. - Hepatic disorders: Hepatitis, Indian childhood cirrhosis, liver transplantation. - Malabsorption syndrome, Malnutrition ● Child with renal/ urinary tract disorders: Nephrotic syndrome, Nephritis, Hydronephrosis, hemolytic-uremic syndrome, kidney transplantation ● Child with cardio-vascular disorders: - Acquired: Rheumatic fever, Rheumatic heart disease, - Congenital: Cyanotic and acyanotic ● Child with endocrine/metabolic disorders: Diabetes insipidus, Diabetes Mellitus – IDDM, NIDDM, hyper and hypo thyroidism, phenylketonuria, galactosemia ● Child with Neurological disorders: Convulsions, Meningitis, encephalitis, guillian- Barre syndrome ● Child with oncological disorders: Leukemias, Lymphomas, Wilms' tumor, neuroblastomas, Rhabdomyosarcoma, retinoblastoma, hepatoblastoma, bone tumors ● Child with blood disorders: Anemias, thalassemias, hemophilia, polycythemia, thrombocytopenia, and disseminated intravascular coagulation ● Child with skin disorders ● Common Eye and ENT disorders ● Common Communicable diseases
III	35	● Assessment (including interpretation of various invasive and non-invasive diagnostic procedures), treatment modalities including cosmetic surgery and nursing interventions in selected pediatric surgical problems/ Disorders ● Gastrointestinal system: Cleft lip, cleft palate and conditions requiring plastic surgery, Tracheo esophageal fistula/atresia, Hirschsprungs' disease/megacolon, malrotation, intestinal obstruction, duodenal atresia, gastrochisis, exomphalus,

		anorectal malformation, omphalocele, diaphragmatic hernia • Anomalies of the nervous system: Spina bifida, Meningocele, Myelomeningocele, hydrocephalus • Anomalies of the genito-urinary system: Hypospadias, Epispadias, Undescended testes, Exstrophy bladder • Anomalies of the skeletal system • Eye and ENT disorders • Nursing management of the child with traumatic injuries: General principles of managing Pediatric trauma - Head injury, abdominal injury, poisoning, foreign body obstruction, burns - & Bites • Child with oncological disorders: Solid tumors of childhood, Nephroblastoma, Neuro blastoma, Hodgkin's/Non Hodgkin's Lymphoma, Hepatoblastoma, Rhabdomyosarcoma • Management of stomas, catheters and tubes • Management of wounds and drainages
IV	10	INTENSIVE CARE FOR PEDIATRIC CLIENTS: ● Resuscitation, stabilization & monitoring of pediatric patients ● Anatomical & physiological basis of critical illness in infancy and childhood ● Care of child requiring long-term ventilation ● Nutritional needs of critically ill child ● Legal and ethical issues in pediatric intensive care ● Intensive care procedures, equipment and techniques ● Documentation
V	20	HIGH RISK NEWBORN: ● Concept, goals, assessment, principles. ● Nursing management of • Post-mature infant and baby of diabetic and substance use mothers. • Respiratory conditions, Asphyxia neonatorum, neonatal apnoea meconium aspiration syndrome, pneumo thorax, pneumo mediastinum • Icterus neonatorum. • Birth injuries. • Hypoxic ischaemic encephelopathy • Congenital anomalies. • Neonatal seizures. • Neonatal hypocalcaemia, hypoglycemia, hypomagnesaemia. • Neonatal heart diseases. • Neonatal hemolytic diseases • Neonatal infections, neonatal sepsis, ophthalmia neonatorum, congenital syphilis, HIV/AIDS • Advanced neonatal procedures. • Calculation of fluid requirements. • Hematological conditions – erythroblastosis fetalis, hemorrhagic disorder in the newborn • Organization of neonatal care, services(Levels), transport,

		neonatal intensive care unit, organization and management of nursing services in NICU
VI	10	DEVELOPMENTAL DISTURBANCES AND IMPLICATIONS FOR NURSING: ● Adjustment reaction to school, ● Learning disabilities ● Habit disorders, speech disorders, ● Conduct disorders, ● Early infantile autism, Attention deficit hyperactive disorders (ADHD), depression and childhood schizophrenia.
VII	10	CHALLENGED CHILD AND IMPLICATIONS FOR NURSING: ● Physically challenged, causes, features, early detection & management ● Cerebral palsied child, ● Mentally challenged child. ● Training & rehabilitation of challenged children
VIII	5	CRISIS AND NURSING INTERVENTION: ● The hospitalized child, ● Terminal illness & death during childhood ● Nursing intervention-counseling
IX	5	DRUGS USED IN PEDIATRICS: ● Criteria for dose calculation ● Administration of drugs, oxygen and blood ● Drug interactions ● Adverse effects and their management
X	10	ADMINISTRATION AND MANAGEMENT OF PEDIATRIC CARE UNIT:: ● Design & layout ● Staffing, ● Equipment, supplies, ● Norms, policies and protocols ● Practice standards for pediatric care unit ● Documentation
XI	5	EDUCATION AND TRAINING IN PEDIATRIC CARE: ● Staff orientation, training and development, ● In-service education program, ● Clinical teaching programs.

Course Outcomes (Cos)- Clinical Speciality-II (Pediatric nursing)

CO1	Remember the nursing process in the care of ill infants to pre adolescents in hospital and community
CO2	Understand the advanced skills/competence in nursing management of Children with medical and surgical problems.
CO3	Apply and Manage emergencies in children
CO4	Analyse and Provide nursing care to critically ill children.
CO5	Evaluate and Utilize the recent technology and various treatment modalities in the management of high risk children. Identify areas of research in the

	field of pediatric nursing.
CO6	Create and Prepare a design for layout and describe standards for management of Pediatric units/hospitals.

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	2	2	1		2			2	2	2		2	1	2
CO2		2	2			1					2	1	2		2
CO3		3		1			2			1	2		2		2
CO4	2					1			1		1		2	2	2
CO5	1	2	2	2	2		2	2		2		2			
CO6		2	2	2	2		2	2		2		2	2	2	2

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

PRACTICAL:

Total = 960 Hours
1 Week = 30 Hours

FIELD VISITS:

S. No.	Department / Unit	No. of Week	Total Hours
1	Pediatric medicine ICU	4	120 Hours
2	Pediatric surgical ICU	4	120 Hours
3	NICU	4	120 Hours
4	Pediatric OT	2	60 Hours
5	Pediatric medicine ward	6	180 Hours
6	Pediatric surgery ward	6	180 Hours
7	Emergency/Casualty	4	120 Hours
8	Field visits*	2	60 Hours
Total		32 +1Weeks	960Hours.

*Child care center, Anganwadi, play school, Special schools for challenged children, Juvenile court, UNICEF, Orphanage, Creche, SOS village

I. PROCEDURES OBSERVED:

- ❖ Echo cardiogram
- ❖ Ultrasound head
- ❖ ROP screening (Retinopathy of prematurity)
- ❖ Any other

II. PROCEDURES ASSISTED

- ❖ Advanced neonatal life support
- ❖ Lumbar Puncture
- ❖ Arterial Blood Gas
- ❖ ECG Recording
- ❖ Umbilical catheterization – arterial and venous
- ❖ Arterial B P monitoring
- ❖ Blood transfusion- exchange transfusion full and partial
- ❖ IV cannulation & therapy
- ❖ Arterial catheterization
- ❖ Chest tube insertion
- ❖ Endotracheal intubation
- ❖ Ventilation
- ❖ Insertion of long line
- ❖ Assist in surgery

III. PROCEDURES PERFORMED:

- ❖ Airway Management
 - Application of Oro Pharyngeal Airway
 - Oxygen therapy
 - CPAP(Continuous Positive Airway Pressure)
 - Care of Tracheostomy
 - Endotracheal Intubation
- ❖ Neonatal Resuscitation
- ❖ Monitoring of Neonates – clinically & with monitors, CRT(Capillary Refill Time), assessment of jaundice, ECG
- ❖ Gastric Lavage
- ❖ Setting of Ventilators
- ❖ Phototherapy
- ❖ Assessment of Neonates: Identification & assessment of risk factors, APGAR Score, gestation age, Anthropometric assessment, Weighing the baby, Newborn examination, detection of life threatening congenital abnormalities,
- ❖ Admission & discharge of neonates
- ❖ Feeding - management of breast feeding, artificial feeding, expression of breast milk, OG(Orogastric) tube insertion, gavage feeding, TPN, Breast feeding counseling
- ❖ Thermoregulation- Axillary temperature, Kangaroo Mother Care (KMC), Use of Radiant warmer, incubators, management of thermoregulation & control
- ❖ Administration of Drugs: I/M, IV injection, IV Cannulation & fixation infusion pump, Calculation of dosages, Neonatal formulation of drugs, use of tuberculin/ insulin syringes, Monitoring fluid therapy, Blood administration.
- ❖ Procedures for prevention of infections: Hand washing, disinfections & sterilization, surveillance, fumigation
- ❖ Collection of specimens

- ❖ Setting, Use & maintenance of basic equipment: Ventilator, O₂ analyzer, monitoring equipment, Photo therapy unit, Flux meter, Infusion pump, Radiant warmer, incubator, Centrifuge machine, Bilimeter, Refractometer, laminar flow

ELECTIVE COURSE

19ECIS01- IMMUNIZATION SKILL

Introduction:

Immunization is the process by which an individual's immune system becomes fortified against an agent (known as the immunogen). Immunization is done through various techniques, most commonly vaccination. Vaccines against microorganisms that cause diseases can prepare the body's immune system, thus helping to fight or prevent an infection. Immunizations are often widely stated as less risky and an easier way to become immune to a particular disease than risking a milder form of the disease itself. They are important for both adults and children in that they can protect us from the many diseases out there. Immunization not only protects children against deadly diseases but also helps in developing children's immune systems.

Course Objective

1. Use rational criteria for decisions related to evidence-based introduction of new vaccines into immunization programs;
2. Identify requirements for vaccination strategies to be used in special conditions: eradication strategies, vaccination of neonates, elderly, immune compromised and HIV infected persons;
3. Deal with issues regarding vaccine trials and identify recent developments towards new or improved vaccines and new vaccination strategies;
4. Appraise all aspects of vaccines and vaccination safety, including vaccine delivery and reporting of adverse events following immunization.

Unit	Learning Objective	Content	Hrs
I	Appreciate introduction of new vaccines into immunization programs	INTRODUCTION: Target diseases and vaccines • Diphtheria • Haemophilus influenzae type b disease • Hepatitis • Human papillomavirus infection and	T(15)

		cervical cancer • Japanese encephalitis • Measles • Meningococcal disease • Mumps • Pertussis • Pneumococcal disease • Poliomyelitis • Rotavirus gastroenteritis • Rubella and congenital rubella syndrome • Seasonal influenza • Tetanus • Tuberculosis Yellow fever	
II	Describe the cold chain equipment and Basic maintenance of cold chain equipment and vaccine strategies	THE VACCINE COLD CHAIN The cold chain • Health facility cold chain equipment • Temperature monitoring devices • Monitoring cold chain temperatures • Arranging vaccines inside cold chain equipment • Basic maintenance of cold chain equipment and vaccine strategies	T(5) P(5)
III	Discuss the principle strategies available for developing a vaccine	ENSURING SAFE INJECTIONS • Using safe injection equipment and techniques • Preventing needle-stick injuries • Disposing of used syringes and needles • Unsafe immunization practices	T(10) P(5)

	Explain all aspects of vaccines and vaccination safety and adverse events following immunization;	Vaccines And Vaccination Safety - vaccine delivery and reporting of adverse events following immunization - vaccine program	T(5)

1. Teaching- Learning Strategies

- (i) Lecture cum Discussion
- (ii) Seminar
- (iii) Case Presentations
- (iv) Research projects
- (v) Class room Exercises
- (vi) Demonstration
- (vii) Assignments

2. Assessment Techniques of each topic of the course

S.No	Topic	Assessment Techniques
1.	Introduction	Short answer
2.	The Vaccine Cold Chain	Assignment, Paediatric assessment, Short answers
3.	Ensuring Safe Injections	Descriptive type, Short answer
4.	Vaccines And Vaccination Safety	Descriptive type, Short answer

(19ECAHP02) - ADOLESCENT HEALTH PROBLEMS

Introduction

The most common problems among adolescents relate to growth and development, school, childhood illnesses that continue into adolescence, mental health disorders, and the consequences of risky or illegal behaviors, including injury, legal consequences, pregnancy, infectious diseases, and substance use disorders. In order to be considered as meeting the definition of a mental disorder, there must be a pattern of symptoms that leads to some level of distress, disability or interference with daily functioning, and an increase in risk for pain, suffering, or loss of freedom (e.g., institutionalization). In addition, the symptoms are not consistent with the norms of the culture, though they may appear to be exaggerations of normal behavior or can occur in adaptation to some unusual circumstance.

Course Objective and Summary

- Understand the nature of abnormal behavior in children and adolescents.
- Understand the process of assessing such behavior and the most commonly used system for classifying psychological disorders.
- Be familiar with and able to discuss several different theoretical perspectives on psychological disorders.
- Be familiar with the research methods used and research findings on various psychological disorders.
- Understand the causes and be able to identify the symptoms of various psychological disorders.
- Be familiar with effective treatment approaches to different psychological disorders.

Unit	Learning Objective	Content	Hrs
I	Understand the nature of abnormal behavior in children and adolescents	Nature of abnormal behavior in children and adolescents • Nature and Theories of Child Psychopathology • Childhood Phobias • Child Abuse, neglect. • Loss and anxiety during childhood.	T(8)
II	Understand the process of assessing such behavior and the most commonly used system for classifying psychological disorders.	Understand the process of assessment and classifying psychological disorders • Developmental problems and concerns. • Parenting and relationship to Psychopathology. • Best Practices • Social policies to protect children. • Pedophilia • Use of medications with children. • Suicide.	T(12) P(5)
III	• Understand the causes treatment approaches to identify the symptoms of various psychological disorders	psychological disorders and effective treatment approaches to different • Early childhood trauma and Psychopathology • Aggression during childhood. • Family dynamics and psychopathology. • Diagnostic issues. • Ethnicity and culture in diagnosis and treatment. • Substance Abuse • Sexuality	T(10) P(5)

		• Theories of child psychopathology • Treatment approaches of various psychological disorders	

1. Teaching- Learning Strategies

1. Lecture cum Discussion
2. Seminar
3. Case Presentations
4. Research projects
5. Class room Exercises
6. Demonstration
7. Assignments

2. Assessment Techniques of each topic of the course

S.No	Topic	Assessment Techniques
1.	Theories of Child Psychopathology	Short answer
2.	Developmental problems and concerns.	Assignment, Paediatric assessment, Short answers
3.	Early childhood trauma and Psychopathology	Descriptive type, Short answer

19ECCP03 - CHILD PSYCHIATRY

Introduction: This course is designed to familiarize the student with the range of child, psychological disorders seen in clinical practice across the lifespan. Emphasis will be placed on developmental factors, diagnostic issues, theoretical formulations, etiology, evidence-based treatments, and research findings related to each of these conditions. Issues such as comorbidity (simultaneous presentation of two or more disorders), cultural influences on the expression of mental disorders, and psychological factors related to physical conditions will also be considered. The clinical manifestations of each of these conditions will be illustrated through the use of case examples and or video presentation.

Course Objective

- 1.To develop an understanding of child psychiatry
- 2.To examine the effects of mind-body relaxation techniques in treating mental disorders
- 3.To develop a healthy habit and lifestyle.
- 4.To develop humane values in child psychiatry
- 5.To develop physical, emotional and mental health through yogic activities.

Unit	Learning Objective	Content	Hrs
I	Explain the importance of diagnostic procedures in child Psychiatry	Diagnostic procedures and etiological factors MRI, CT scan lab findings	T (10) P (3)
II	Describe developmental factors related to manifestation of these disorders	➤ implement the knowledge of the relevance of developmental factors as they are related to the manifestations of these disorders across the life span	T (10) P (5)
III	Discuss the various treatment methods and	Analyze the knowledge of current research findings relevant to these disorders	T (10) P (2)

	create class format over the course	Develop the relevance of cultural factors to the development, diagnosis, outcome and treatment of these conditions Create Class Format Over the course Relaxation techniques Music ➤ Play therapy ➤ Therapeutic play ➤ Mindfulness Music therapy ➤ Evidence based studies ➤ Issues and importance	

3. Teaching- Learning Strategies

- (viii) Lecture cum Discussion
- (ix) Seminar
- (x) Lab – yoga and relaxation techniques particles
- (xi) Demonstration
- (xii) Assignments

2. Assessment Techniques of each topic of the course

S.No	Topic	Assessment Techniques
1.	Diagnostic procedures and etiological factors MRI, CT scan lab findings	Short answer Demonstration
2.	Implement the knowledge of the relevance of developmental factors as they are related to the manifestations of these disorders across the life span	Short answers, Descriptive type, Mental Assessment Test
3.	Analyse the knowledge of current research findings relevant to these disorders	Descriptive type, Health Education Return demonstration

	Develop the relevance of cultural factors to the development, diagnosis, outcome and treatment of these conditions Create Class Format Over the course	

19ECA04 AUTISM

Introduction : This course is designed to assist students in developing expertise and in depth understanding in the field of paediatric Nursing. It will help students to appreciate the client as a holistic individual and develop skill to function as an independent paediatric nurse. It will further enable the student to function as educator, manager, and researcher in the field of autism.

Course Objective a

- a) Explain the autism
- b) Describe the social communication and language interaction for autistic child
- c) Discuss the thought and behaviour in autism
- d) Mention self help skill for autistic child
- e) Specify pre-academic & academic skills for child with autism
- f) Explain occupational skills related to the job chosen by autistic child

S.NO	LEARNING OBJECTIVE	SUMMARY OF COURSE CONTENT	HRS
1.	Explain the autism	INTRODUCTION AUTISM • Concept • Definition And Characteristics • Historical Perspective – Cultural • Perspective, Myths	5

		• Prevalence And Incidence • Etiology • Screening, Diagnosis & treatment	
2.	Describe the social communication and language interaction for autistic child	SOCIAL COMMUNICATION & LANGUAGE • Non-Verbal Communication • Verbal Communication • Social emotional reciprocity • Interpersonal relationships	5
3.	Discuss the thought and behaviour in autism	THOUGHT AND BEHAVIOUR IN AUTISM • Motor and Verbal Stereotypes • Unusual Sensory Behaviours • Routines and Rituals • Play behaviours	5
4	Mention self help skill for autistic child	SELF HELP SKILLS • Dressing and privacy • Grooming: • Meal time • Toileting: Indication • Hygiene & self care	T-(5) P-(2)
5	Specify pre-academic & academic skills for child with autism	PRE-ACADEMIC & ACADEMIC SKILLS • Reading and writing • Math and Computation	T-(5) P-(3)

		• Environmental awareness	
6	Explain occupational skills related to the job chosen by autistic child	OCCUPATIONAL SKILLS: RELATED TO THE JOB CHOSEN • Teach Independent Work Skills, • Health/Safety Skills • First Aid. • Vocational Rehabilitation • Self Information – • General Knowledge & Awareness	T-(5) P-(5)

Teaching- Learning Strategies

- (xiii) Lecture cum Discussion
- (xiv) Seminar
- (xv) Lab – Self Help, Academic And vocational Skills
- (xvi) Demonstration
- (xvii) Assignments

Assessment Techniques of each topic of the course

S.No	Topic	Assessment Techniques
1.	INTRODUCTION AUTISM	Short answer
2.	SOCIAL COMMUNICATION & LANGUAGE	Assignment, Paediatric assessment, Short answers

3.	THOUGHT AND BEHAVIOUR IN AUTISM	Descriptive type, Short answer
4.	SELF HELP SKILLS	Assessment, Short answers, Demonstration
5.	PRE-ACADEMIC & ACADEMIC SKILLS	Assignment, Paediatric assessment, Demonstration
6.	OCCUPATIONAL SKILLS: RELATED TO THE JOB CHOSEN	Assessment, Short answers, Demonstration

19ECDD05

DEVELOPMENTAL DISORDER

Introduction: The main emphasis of the course is designed for developing an understanding of the Paediatric Developmental problems and to achieve competence in independent and collaborative in clinical practice, education and research to forward the care of children with Developmental disorders.

Course Objective and Summary

- 1 To identify the Developmental disorders and abnormalities in brain
2. Describe the Causes, and Symptoms of common developmental disorders
3. Understand the Theoretical perspectives on Developmental disorder
4. Describe the special programs in developmental disorders.

Unit	Learning Objective	Content	Hrs
I	Explain Introduction about the developmental disorders:	Introduction about the developmental disorders: • Abnormalities in brain • Persistent issues in	T (10)

		social interactions and communications • Repetitive behavioural patterns	
II	Describe the causes, symptoms of common developmental disorders	Theoretical perspectives on Developmental disorder Explain about the causes, symptoms of common developmental disorders • Autism or Autism spectrum disorders (ASD) • Behavioural and Mood Disorders • Developmental Delay • Learning disabilities • Developmental coordination disorders • Genetic disorders • Tics disorders Recent approach in developmental Disorders.	T (10) P (5)
III	Describe about the therapeutic management and special programs of developmental disorders	MANAGEMENT AND SPECIAL PROGRAMS IN DEVELOPMENTAL DISORDERS: • Applied behavioral analysis • Specialized physical or occupational therapy • An IEP (individualized education program), or special education services, • Medication • Dietary and behavioral modifications • Special Programs	T (10) P (5)

4. Teaching- Learning Strategies

1. Lecture cum Discussion
2. Seminar
3. Case presentation
4. Clinical assessment of the children
5. Demonstration of procedures
6. Assignments
7. Journal club

S.No	Topic	Assessment Techniques
1.	Introduction about the developmental disorders: • Abnormalities in brain • Persistent issues in social interactions and communications • Repetitive behavioral patterns	Short answer.
2.	• Theoretical perspectives on Developmental disorder. • Explain about the causes,sypmtoms of common developmental disorders • Recent approach in developmental Disorders.	Short answers, Descriptive type, Assessment and demonstration .
3.	Management and special programs in developmental disorders.	Descriptive type, Return demonstration

Syllabus

Post Basic B.Sc. Nursing

(Revised Regulations -2019)



Bharath Institute of Higher Education and Research
(Deemed To Be University) Chennai

Revised on 2019

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH TAMILNADU, CHENNAI



The motto of the BIHER is winning the world by innovation. To the stars by hard work. The emblem of the Bharath Institute of Higher Education and Research is a symbolic expression of equality, knowledge, enlightenment, expression of peace and love and all this based as a source of all medicines

The main aim of establishing the institute was to provide high quality education to students from across the world in several relevant fields. The institute was developed to become a premier university for Teaching, Learning, Research, and Innovation. Students here are trained to create a better society with ethics and morals.

Bharath Institute of Higher Education & Research (Tamil Nadu) earlier known as **Bharath University**, commonly referred to as BIHER, commenced its establishment in the academic year of 1984. Bharath University has been given the status of 'Deemed to be University'. The institute is approved and recognized by the All-India Council for Technical Education (AICTE) and the University Grants Commission (UGC) respectively. It has also been accredited with grade 'A' by the National Assessment and Accreditation Council (NAAC).

PHILOSOPHY

Bharath University of Higher Education and Research believes that: Health is a state of wellbeing that enables a person to lead a psychologically, socially and economically productive life. Health is not a privilege but a right of all the people. Individuals, families and communities have a responsibility towards maintaining their health

Nursing contributes to the health services in a vital and significant way in the health care delivery system. It recognizes national health goals and is committed to participate in the implementation of National health policies and programmes. It aims at identifying health needs of the people planning and providing quality care in collaboration with other health professionals and community groups.

Scope of nursing practice encompasses provision of promotive, preventive, curative and rehabilitative aspects of care to people across their life span in wide variety of health care settings. Practice of nursing is based upon application of basic concepts and principles derived from the physical, biological, behavioral sciences.

Nursing is based on values of caring and aims to help individuals to attain independence in self-care. It necessitates development of compassion and understanding of human behavior among its practitioners to provide care with respect and dignity and protect the rights of individuals & groups

Undergraduate nursing program at the post basic level is a broad-based education within an academic framework, which builds upon the skills and competencies acquired at the diploma level. It is specifically directed to the upgrading of critical thinking skills, competencies & standards required for practice of professional nursing and midwifery as envisaged in National Health Policy 2002.

The teachers have the responsibility to be role models and create learning environment that enables students to acquire inquiry driven, self-directed learning and foster an attitude of lifelong learning.

Undergraduate nursing education program at the post basic level prepares its graduates to become exemplary citizen by adhering to code of ethics and professional conduct at all times in fulfilling personal, social and professional obligations so as to respond to national aspirations.

VISION

Bharath Institute of Higher Education & Research (BIHER) envisions and constantly strives to provide an excellent academic and research ambience for students and members of the faculties to acquire professional competence along with human dignity, and spearhead the transformation of community through continuous discovery in science and technology.

MISSION

- To develop as a Premier University for Teaching, Learning, Research and Innovation on par with leading global universities
- To impart education and training to students for creating a better society with ethics and morals
- To foster an interdisciplinary approach in education, research and innovation by supporting lifelong professional development, enriching knowledge banks through scientific research, promoting best practices and innovation, industry-driven and institute-oriented cooperation, globalization and international initiatives.
- To develop as a multi-dimensional institution contributing immensely to the cause of societal advancement through spread of literacy, an ambience that provides the best of international exposures, provide health care, enrich rural development and most importantly impart value-based education
- To establish benchmark standards in professional practice in the fields of innovative and emerging areas in medicine, dentistry, nursing, physiotherapy, allied sciences, engineering, and management.
- To launch new programmes with innovative curriculum design by provide multi-faceted exposure in various subjects
- To provide flexibility to students - options / add-ons to core subjects, develop Device Agnostic Technology to access online content
- Funding / incubation entrepreneurial ideas flipped class room – Integrated Courses & Need based learning

Programmed Educational Objectives (PEOs)

To become a competent nurse qualified to practice in a variety of settings in either public/ government or private healthcare
To prepare nurses for generalist nursing practice. Knowledge acquisition related to wellness, health promotion, illness, disease management and care of the dying is core to nursing practice
To ordinate/manage care by being active participant of inter-professional team and member of a profession demonstrating self-responsibility and accountability for practice as well as to support the profession.
To participate national health problems, national health programs and national health policy directives to achieve universal health care for all citizens of India.
To become exemplary citizens by adhering to code of ethics and professional conduct at all times in fulfilling personal, social and professional obligations so as to respond to national aspirations

Programmed Objectives

PO1	Provide holistic care recognizing individual patient's preferences, values and needs, that is compassionate, coordinated, age and culturally appropriate safe and effective care.
PO2	Demonstrate accountability for the delivery of standard-based nursing care that is consistent with moral, altruistic, legal, ethical, regulatory and humanistic principles
PO3	Influence the behaviour of individuals and groups within their environment and facilitate establishment of shared goals
PO4	Demonstrate awareness and responsiveness to the context of healthcare system and ability to manage resources essential to provide optimal quality of care
PO5	Use technology and synthesize information and collaborate to make critical decisions that optimize patient outcomes
PO6	Interact effectively with patients, families and colleagues fostering mutual respect and shared decision making to enhance patient satisfaction and health outcomes
PO7	Function effectively within nursing and interdisciplinary teams, fostering open communication, mutual respect, shared decision making, team learning and development.
PO8	Minimize risk of harm to patients and providers through both system effectiveness and individual performance
PO9	Use data to monitor the outcomes of care processes and utilize improvement methods to design and test changes to continuously improve the quality and safety of healthcare system

PO10	Identify, evaluate and use the best current evidence coupled with clinical expertise and consideration of patient's preferences, experience and values to make practical decisions
PO11	To become Nurse Researcher and demonstrate skill in conducting research and integrate Evidence based practice in health care.
PO12	To become Nurse Educator to understand the process to understand the process of curriculum development and the methodology of curriculum change, innovation and integration.

Programmed Specific Outcome

PSO1	To become qualified nurse and midwife to work in various health care settings.
PSO2	To prepare the nursing students to collaborate with health team members to provide preventive, curative and rehabilitative services.
PSO3	To develop leadership qualities and managerial skills to meet challenges/goals of an Institution or a health care organization.

(** PSO- 2 or 3)

MAPPING / ALIGNMENT OF PEO VS PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
PEO1		✓									✓				
PEO2			✓							✓					
PEO3							✓					✓			
PEO4		✓												✓	
PEO5									✓						

MAPPING BETWEEN COURSE OUTCOMES (COs) AND PROGRAMME OUTCOMES (POs)

Year	Courses/ SOs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
I ST	THEORY												
	Nursing foundation									✓			
	Nutrition & Dietetics				✓		✓						
	Biochemistry & Biophysics		✓						✓				

	Psychology			✓								
	Microbiology							✓				
	Maternal nursing		✓									
	Child Health Nursing						✓					
	Medical & Surgical Nursing									✓		
	English (Qualifying)											✓
	PRACTICAL											
	Medical & Surgical Nursing		✓				✓		✓			
	Maternal Nursing	✓				✓						
	Child Health Nursing				✓							✓
II ND	THEORY											
	Sociology		✓						✓			
	Community Health Nursing				✓					✓		
	Mental Health Nursing	✓										
	Introduction to Nursing Education					✓				✓		
	Introduction to Nursing Administration			✓								✓
	Nursing Research & Statistics**		✓									
	PRACTICAL											
	Community Health Nursing				✓				✓			✓
	Mental Health Nursing	✓				✓						
	Research Project **							✓				✓

MAPPING BETWEEN PROGRAMME ELECTIVES (PEs) AND PROGRAMME OUTCOMES (POs)

Year	Elective Courses/ SOs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
I	Nursing informatics	✓											
	Reproductive technology			✓				✓					
	Trauma in life support												✓
	Pediatric ortho pediatrics				✓				✓				
	Hospital administration	✓						✓			✓		
II	Substance abuse			✓									✓
	Mental health challenges												
	Behavior disorder among children							✓					
	Community psychiatry			✓								✓	
	Gynecological cancer	✓						✓					✓

Course categories with Courses

P.B.B.Sc. Nursing I Year						
CourseCode	Course Category	Course Title	L	T	P	C
THEORY						
19NFO1	CC	Nursing foundation	3	0	3	2.25
19ND02	FC	Nutrition & Dietetics	3	0	2	1.5
19BCBP03	FC	Biochemistry & Biophysics	3	0	0	3
19P04	FC	Psychology	3	0	0	3.75
19M05	FC	Microbiology	3	0	1	4.5
19MN06	CC	Maternal Nursing	3	0	3	15
19CHN07	CC	Child Health Nursing	3	0	3	15
19MSN08	CC	Medical & Surgical Nursing	3	0	3	18
19E09	FC	English (Qualifying)*	3	0	0	3
PRACTICAL						
19MSN08	CC	Medical & Surgical Nursing	0	0	3	13.5
19MN06	CC	Maternal Nursing	0	0	3	12
19CHN07	CC	Child health nursing	0	0	3	12

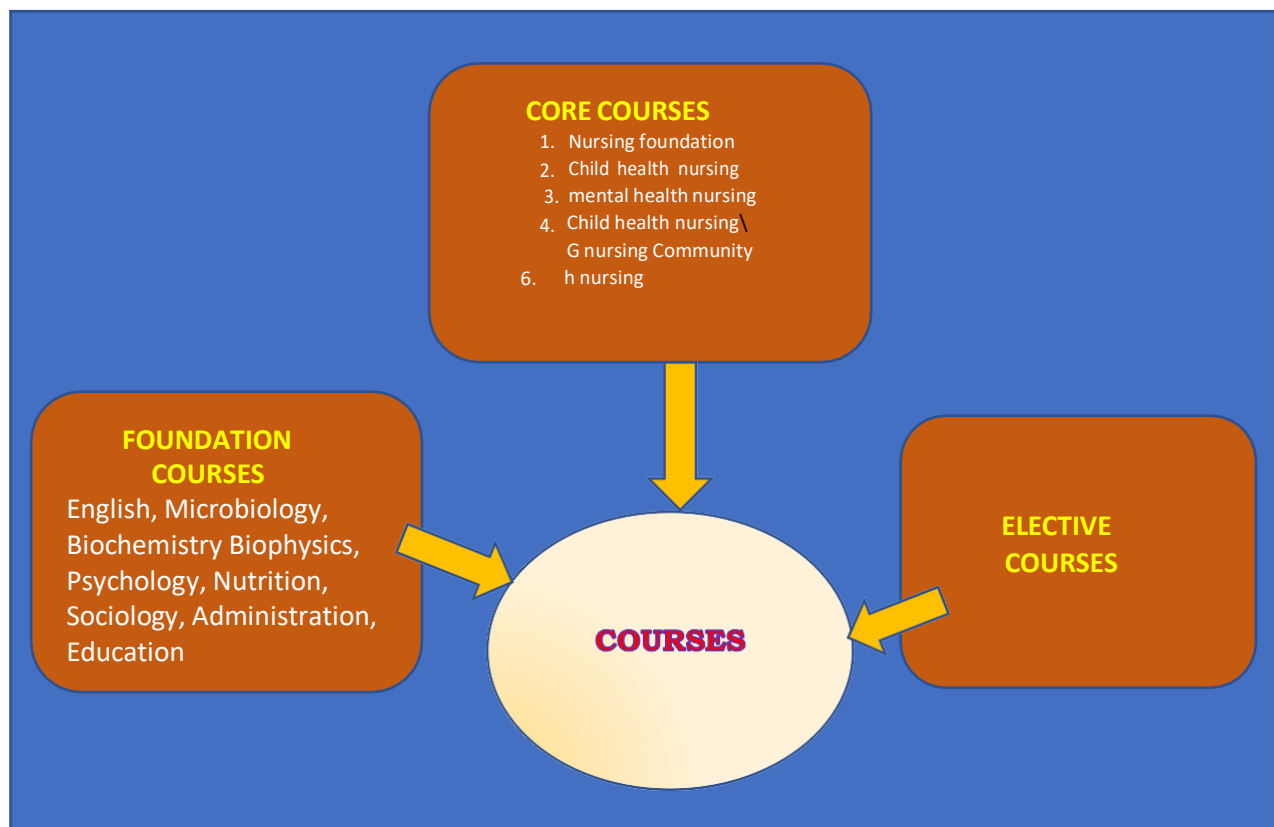
P.B.B.Sc. Nursing II Year						
CourseCode	Course Category	Course Title	L	T	P	C
THEORY						
19S010	FC	Sociology	3	0	0	3
19CHN11	CC	Community Health Nursing	3	0	3	3
19MHN12	CC	Mental Health Nursing	3	0	3	3
19NE13	CC	Introduction to Nursing Education	3	0	0	6.75
19NA14	CC	Introduction to Nursing Administration	3	0	1	12
19NRS15	CC	Nursing Research & Statistics**	3	0	2	8.25
Practical's						
19CHN11	CC	Community Health Nursing	0	0	3	12
19MHN12	CC	Mental Health Nursing	0	0	3	12
19NRS15	CC	Research Project **	0	0	3	6

Course Code	Elective courses	L	T	P	C
I YEAR					
19ECNI01	Nursing informatics	3	0	0	2
19ECRT02	Reproductive technology	3	0	2	2
19ECTLS03	Trauma in life support	3	0	2	2
19ECP004	Pediatric ortho pediatrics	3	0	3	2
19ECHA05	Hospital administration	3		3	2
II YEAR					
19ECSA06	Substance abuse	3	0	1	2
19ECMHC07	Mental health challenges	3	0	1	2
19ECBDC08	Behavior disorder among children	3	0	1	2
19ECCPS09	Community psychiatry	3	0	1	2
19ECGC10	Gynecological cancer	3	0	2	2
	5 courses Mandatory 2 credits = 40hrs				

SUMMARY OF CURRICULUM STRUCTURE AND CREDIT & CONTACT HOUR DISTRIBUTION

S. No	Sub Area	Credit As per Year		No. ofCredit
		I	II	
1	Foundational Courses	17.25	3	20.25
2	Core Courses	87.75	63	150.75
3	Elective Courses	10	10	20
	TOTAL CREDITS			191

**POST BASIC B.SC NURSING PROGRAM-
TWO YEARS CHOICE BASED CREDIT
SYSTEM (CBCS)**



STAFFING PATTERN

S.NO	DESIGNATION	P.B.B.Sc.(N) 20-60 (students' intake)
1	Professor cum PRINCIPAL	1
2	Professor cum VICE- PRINCIPAL	1
3	Professor	
4	Associate Professor	
5	Assistant Professor	2
6	Tutor	2-10

QUALIFICATIONS & EXPERIENCE OF TEACHERS OF COLLEGE OF NURSING

Sr. No.	Post	Qualification & Experience
1	Professor-cum-Principal	Master's Degree in Nursing 14 years' experience after M.Sc. (N) in College of Nursing. 3 years' experience in administration (Years of experience is relax able if suitable candidate is not available) (If a candidate is not available, minimum 5 years of experience in college of nursing, with an aggregate of 14 years teaching experience)
Desirable: Independent published work of high standard / doctorate degree / M. Phil.		
2	Professor-cum-Vice Principal	Master's Degree in Nursing 14 years' experience after M.Sc. (N) in College of Nursing. 3 years' experience in administration (Years of experience is relax able if suitable candidate is not available) (If a candidate is not available, minimum 5 years of experience in college of nursing, with an aggregate of 14 years teaching experience)
Desirable: Independent published work of high standard / doctorate degree / M. Phil.		
3	Reader / Associate Professor	Master Degree in Nursing. 10 years' experience after M.Sc. (N) in a College of Nursing. (If a candidate is not available, 5 years of experience in College of Nursing with an aggregate of 10 years teaching experience.
Desirable: Independent published work of high standard /doctorate degree / M. Phil.		
4	Lecturer	Master Degree in Nursing. 3 years teaching experience after M.Sc. (N)

STAFFING PATTERN

Qualifications & Experience of Teachers of College of Nursing

Sr. No.	Post, Qualification & Experience
1	Professor-cum-Principal Master's Degree in Nursing 10 years of experience and minimum of 5 years of teaching experience [Desirable: Independent published work of high standard / doctorate Degree / M.Phil.]
2	Professor-cum-Vice Principal Master's Degree in Nursing 10 years of experience and minimum of 5 years of teaching experience [Desirable: Independent published work of high standard / doctorate Degree / M.Phil.]
3	Reader / Associate Professor Master Degree in Nursing. 7 years of experience and minimum of 3 years teaching experience [Desirable: Independent published work of high standard / doctorate Degree / M.Phil.]
4	Assistant Professor /Lecturer Master Degree in Nursing. 3 years' experience

External /Guest faculty may be arranged for the selected units in different subjects as required

NOTE:

1. No part time nursing faculty will be counted for calculating total no. of faculty required for a college.
2. Irrespective of number of admissions, all faculty positions (Professor to Lecturer) must be filled.
3. For P.B. Bask. (N) Programmed appropriate number of P.B. Bask. faculty in each specialty be appointed subject to the condition that total number of teaching faculty ceiling is maintained.
4. All nursing teachers must possess a basic university or equivalent qualification. They shall be registered under the State Nursing Registration Act.
5. Nursing faculty in nursing college except tutor/clinical instructors must possess the requisite recognized postgraduate qualification in nursing subjects.
6. All teachers of nursing other than Principal and Vice-Principal should spend at least 4 hours in the clinical area for clinical teaching and/or supervision of care every day.

Part time Teachers / External Teachers**

1. Microbiology
2. Bio –Chemistry
3. Sociology
4. Bio –Physics
5. Psychology
6. Nutrition
7. English
8. Computer
9. Hindi / Any other language
10. Any other – clinical disciplines
11. Physical Education.

**** (The above teachers should have post graduate qualification with teaching experience in respective area)**

Other Staff (Minimum requirements)

(To be reviewed and revised and rationalized keeping in mind the mechanization and contractservice) Ministerial

a.	Administrative Officer	1
b.	Office Superintendent	1
c.	PA to Principal	1
d.	Accountant/Cashier	1
e	Upper Division clerk	2
f	Lower Division Clerk	2
g	Store Keeper	1
	a. Maintenance of store	1
	b. Classroom attendants	2
	c. Sanitary staff	As per the physical space
h	d. Security Staff Peons/Office attendants	As per the requirement 4
i	Library	
	a. Librarian	2
	b. Library Attendants	As per the requirement
J	Hostel	

1. Wardens	2
2. Cooks, Bearers,	As per the requirement
3. Ayes/Peons	As per the requirement
4. Security Staff	As per the requirement
5. Gardeners & Dhobi	Depends on structural facilities

ADMISSION STRENGTH

Annual admission strength for P.B.BSc. (N) Programmed should have prior sanction/permission from the Indian Nursing Council on the basis of clinical, physical facilities and teaching faculty.

HEALTH SERVICES

There should be provisions for the following health services for the students.

- I. An annual medical examination.
- II. Vaccination against Tetanus, hepatitis B or any other communicable disease as considered necessary.
- III. Free medical care during illness and / provision of health insurance should be made.
- IV. A complete health record should be kept in respect of each individual student. The question of continuing the training of a student, with long term chronic illness, will be decided by the individual college

ELECTIVE COURSES

(Standard National/ International Modules can be used)

I Year	
1.	Nursing informatics
2.	Reproductive technology
3.	Trauma in life support
4.	Pediatric ortho pediatrics
5.	Nursing hospital administration
II Year	
6.	Substance abuse
7.	Mental health challenges
8.	Behavior disorder among children
9.	Community psychiatry
10.	Gynecological cancer
	(5 Courses Mandatory) Every Module = 2 Credit = 40 hours)

REGULATIONS

1. **Title of the course:** The course of study shall be called Post Basic B.Sc. in Nursing or B.Sc. Nursing (Post Basic)
2. **Eligibility:** A candidate seeking admission must:
 - Hold A Diploma In General Nursing & Midwifery (GNM)
 - Be A Registered nurse
 - Have a minimum of two years' experience in a hospital or community health nursing.
 - Have Passed Pre-University Examination in Arts/Science/Commerce Conducted by Department of Pre-University Education, Tamilnadu State or Its Equivalent Recognized by MGR University Of Health sciences.
 - Have Working Knowledge Of English
 - Be Medically fit
 - Have Good Personal And Professional record

Eligibility Certificate

- Candidate from Tamil Nadu as well as other state needs to obtain as eligibility certificate from the Bharath University by remitting the prescribed fees along with the application form.
 - Candidate from other states must produce the migration certificate at the time of admission.
1. **Age:** No candidate who is above 48 years of age on 31st December of the year of admission shall be eligible.
 2. **Duration of Study:** The course of study shall be for two academic years from the date of commencement of term notified by the university.
 3. **Medium of Instruction:** English shall be the medium for the course as well as for the examination.
 4. **Registration:** The candidate admitted to the programmed shall register with the Bharath University by remitting the prescribed fees along with the application form for registration duly filled in and forwarded to the Bharath University through the head of the Institution with in the stipulated date.

Selection of the Candidate:

- Candidate will be selected on the basis of merit and experience in Specialty areas by college selection committee member
- After scrutiny of application eligible candidate will be called for an Interview/entrance test before admission.
- Admission notification will intimate the date of commencements of course

Course of Study: Candidates shall undergo course of instruction in the subjects, mentioned in Table1

FIRST YEAR

S.NO	SUBJECT	THEORY (HRS)	CREDIT	PRACTICAL (HRS)	CREDIT
1.	Nursing foundation	45	2.25		
2.	Nutrition & dietetics	30	1.5	15	0.75
3.	Biochemistry & Biophysics	60	3		
4.	Psychology	60	3	15	0.75
5.	Microbiology	60	3	30	1.5
6.	Maternal nursing	60	3	240	12
7.	Child Health Nursing	60	3	240	12
8.	Medical & Surgical Nursing	90	4.5	270	13.5
9.	English (Qualifying)	60	3		
	TOTAL	525	26.5	810	40.5

NOTE: Hindi/local language as per the need of the institution

SECOND YEAR

S.NO	SUBJECT	THEORY (HRS)	CREDIT	PRACTICAL (HRS)	CREDIT
1.	Sociology	60	3		
2.	Community healthnursing	60	3	240	12
3.	Mental Health Nursing	60	3	240	12
4.	Introduction to Nursing Education	60	3	75	3.75
5.	Introduction to Nursing Administration	60	3	180	9
6.	Introduction to Nursing Research & Statistics	45	2.25	120	6
	TOTAL	345	17.25	855	42.75

Note: 1.

- Teaching of Anatomy, Physiology, Pharmacology and Pathology will be integrated with clinical subjects.
- English is a qualifying subject
- Introduction to Nursing Research and Statistics is a subsidiary subject.

3.Attendance: A minimum of not less than 80 % attendance in theory and practical / clinical separately in each subject in each academic year is essential for appearing in the examination. A candidate pursuing in the courses shall study in the college for the entire period as a full-time student. No candidate is permitted to work in a hospital / nursing home / laboratory / college while studying this course. No candidate should join any other course of study or appear for any other examination conducted by this university or any other university in India or abroad during the period of registration. Each academic year shall be taken as a unit for calculating the attendance.

4.Internal assessment: Regular periodic assessment shall be conducted throughout the course. Although the question of number of tests is left to the institution, at least three tests in theory and practical each year are held. The test preceding the university examination may be similar to the pattern of university examination. Average of the marks of the three tests for theory and practical separately, shall be sent to the university. Two assignments are given in the first year. Marks obtained in the assignments shall be added to theory marks for internal assignment. A candidate shall secure at least 35% of marks in internal assessment to be eligible to appear in the university examination.

5.Scheme of examination: The University shall conduct two examinations annually at an interval of not less than 4 to 6 months as notified by the university from time to time. A candidate who satisfies the requirement of attendance, progress and conduct as stipulated by the university shall be eligible to appear for the university examination. Certificate to that effect shall be produced from the Head of the institution along with the application for examination and the prescribed fee.

6.Schedule of Examination: For the Post Basic B.Sc. Nursing course, there shall be two university examinations, one at the end of I year of the course and the other at the end of II year of the course.

7.Criteria for Pass: A candidate shall secure at least 50 % of total marks in each subject in theory paper and practical separately except in English. The marks obtained in the internal assessment shall be added to the marks obtained in the university examination for each subject for computing the 50 % minimum marks required for passing. In case of English, a candidate shall secure at least 33% of maximum marks for passing (inclusive of internal assessment and university examination).

8.Carry Over Benefit: A candidate is permitted to carry over a maximum of three main subjects provided he/she has passed in five other main subjects in the year. The candidate has to pass the carried over subjects before appearing in the II-year university examination

Scheme of examination:

FIRST YEAR

S. No	Theory Paper Subject	Duration Hrs.	Internal Assessment	External Assessment	Total Marks
1.	Nursing foundation	2	15	35	50
2.	Nutrition & Dietetics	2	15	35	50
3.	Biochemistry & Biophysics	3	25	75	100
4.	Psychology	3	25	75	100
5.	Microbiology	3	25	75	100
6.	Maternal Nursing	3	25	75	100
7.	Child Health Nursing	3	25	75	100
8.	Medical & Surgical Nursing	3	25	75	100
9.	English (Qualifying)*	3	25	75	100
	Practical's				
1.	Medical & Surgical Nursing		50	50	100
2.	Maternal Nursing		50	50	100
3.	Child Health Nursing		50	50	100

SECOND YEAR

S. No	Theory Paper Subject	Duration Hrs.	Internal Assessment	University Examination	Total Marks
1.	Sociology	3	25	75	100
2.	Community Health Nursing	3	25	75	100
3.	Mental Health Nursing	3	25	75	100
4.	Introduction to Nursing Education	3	25	75	100
5.	Introduction to Nursing Administration	3	25	75	100
6.	Nursing Research & Statistics**	2	50	-	50
	Practical's				
1.	Community Health Nursing		50	50	100
2.	Mental Health Nursing		50	50	100
3.	Research Project **		50	50	50

* English is a qualifying subject

** Respective colleges will conduct the examination for this subject. It will not be University examination

POST BASIC B.SC. NURSING YEAR- I (19NF01) - NURSING FOUNDATION

Placement: First Year

Time Allotted: - 45 Hrs

Credit:2.5

COURSE DESCRIPTION:

This course will help students develop an understanding of the philosophy, objectives and responsibilities of Nursing as a Profession. The purpose of the course is to orient to the current concepts involved in the practices of Nursing and developments in the Nursing Profession.

OBJECTIVES

At the end of the course, the student will:

1. Identify Professional aspects of Nursing.
2. Explain theories of Nursing.
3. Identify ethical aspects of Nursing Profession.
4. Utilize steps of Nursing Process.
5. Identify the role of the Nurse in various levels of health services.
6. Appreciate the significance of quality assurance in Nursing.
7. Explain current trends in health and Nursing.

COURSE CONTENTS

UNIT I

- Development of Nursing as a Profession:
- Its philosophy
- Objectives and responsibilities of a graduate Nurse.
- Trends influencing Nursing Practices.
- Expanded role of the Nurse.
- Development of Nursing Education in India and trends in Nursing Education.
- Professional organization, career planning.
- Code of ethics & Professional conduct for Nurse

UNIT II

- Ethical, legal and other issues in Nursing.
- Concept of health and illness, effects on the person.
- Stress and adaptation.
- Health care concept and Nursing care concept.
- Development concept, needs, roles and problems of the development stages of individual new born, infant, toddler, pre-adolescent, adolescent, adulthood, middle age, old age.

UNIT III

- Theory of Nursing practices.
- Meta-paradigm of Nursing – characterized by four central concepts i.e., Nurse, person (client/patient), health and environment.

UNIT IV

- Nursing process.
- Assessment: Tools for assessment, methods, recording.
- Planning: Teaching for planning care, types of care plans.
- Implementation: Different approaches to care, organizations and implementation of care, record.
- Evaluation: tools for evaluation, process of evaluation, types of evaluation.

UNIT V

- Quality assurance: Nursing Standards, Nursing audit, total quality management.
- Role of council and Professional bodies in maintenance of standards.

UNIT VI

- Primary health care concept:
- Community oriented Nursing
- Holistic Nursing
- Primary Nursing.
- Family oriented Nursing concept:
- Problem oriented Nursing
- Progressive patient care
- Team Nursing.

Course Outcomes (Cos)

CO1	Describe values, code of ethics and professional conduct for nurses in India
CO2	Describe the nursing standard and professional bodies' roles.
CO3	Describe theory of nursing practices and apply in Nursing process
CO4	Describe nursing process and apply in clinical setting
CO5	Explain the nursing standard and maintenance of standards in council
CO6	Describe the concept of primary health and family-oriented nursing Describe the concept of primary health and family oriented nursing.

Mapping /Alignment of Cos with PO&PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	2	2	3	3		2					2	2		1
CO2	2			1				3		2			2	3	
CO3	1	3			2		1		2		2	2			2
CO4	2	2	2	2				1			3		2	2	2
CO5	2			2			3			3			2		2
CO6	2	2				2		2		1		2	1		1

(Tick mark or level of correlation: 3-High,2-Medium, 1-Low)

(19ND02) - NUTRITION AND DIETICS

Placement: First Year

Time Allotted:

Theory - 45 Hrs Credit:2.5

Practical-15 Hrs Credit :0.75

COURSE DESCRIPTION:

This course is designed to provide the students with a wide knowledge of dietetics in Indian setting, that the practices of teaching optimum and realistic dietary planning can become an integral part of Nursing Practices.

OBJECTIVES

At the end of the course, the student will:

1. Explain the principles and practices of nutrition and dietetics.
2. Plan therapeutic diets in different settings.
3. Identify nutritional needs of different age groups and plan diet accordingly.
4. Prepare meals using different methods utilizing cookery rules.

COURSE CONTENTS

UNIT I

- Introduction to nutrition and dietetics.
- Balanced diet, factors on which it depends.
- Factors to be considered in planning.
- Guidelines available for planning.
- Food hygiene, preparation and preservation.
- Review of nutrients – micro & macro.

UNIT II

- Introduction to diet therapy.
- Routine hospital diets.
- Therapeutic diet under each unit i.e., cardiovascular diseases, gastrointestinal diseases, renal disorders, endocrine and metabolic disorders, allergy, infections and fevers, pre- and post-operative stages, deficiency diseases and malnutrition, overweight and underweight.

Unit III

- Infant and child nutrition.
- Feeding of normal infants: factors to be considered in planning nutritional requirements.
- Feeding of premature infants: factors to be considered in planning nutritional requirements.
- Supplementary feeding of infants: Advantage and method of introduction.
- Weaning, effects on mother and child.
- Psychology of infant and child feeding.

- Feeding the sick child. Diet in diseases of infancy and childhood.
- Deficiency states – Malnutrition and under nutrition.
- Feeding pre-school child: Nutritional needs, factors to be considered in planning diets. Problems in feeding.
- School lunch programme: Advantage, need in India.

Unit IV

- Community nutrition: need for community nutrition programme.
- Nutritional needs for special groups: Infant, child, adolescent, pregnant woman, lactating mother and old people.
- Substitutes for non-vegetarian foods.
- Selection of cheap and nutritious foods. Nutrition education needs and methods.
- Methods of assessing nutritional status of individual / group / community.
- Current nutritional problems and national programmes.

PRACTICUM

I. Methods of cooking and cookery rules.

1. Simple preparation of beverages, soups, cereals and pulses, eggs, vegetables, meat.
2. Menu plans.

II. Preparation of supplementary food for infants.

1. Foods for toddlers.
2. Low-cost nutritious dishes for vulnerable groups.
3. Dietary case study of patient on special diet planning of low-cost dietary instructions for home adaptations.
4. Planning of therapeutic diet

Course Outcomes (Cos)

CO1	To enable students to understand and gain theory & practical knowledge on.
CO2	Different food groups and their nutritive value, biological cycles involved in metabolism.
CO3	Importance of Balanced Diet and its components.
CO4	Utilize knowledge from the physical and biological sciences as a basis for understanding the role of food and nutrients in health and disease processes.
CO5	Able to provide nutrition counseling and education to individuals, groups, and Communities throughout the lifespan using a variety of communication strategies.
CO6	Able to understand the physiological processes and functions as applicable to human nutrition

Mapping /Alignment of Cos with PO&PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	3					3		3	3		3	3	3
CO2				2		3		3		3	3		3		2
CO3		2			3		3	2				3	2	2	3
CO4		3			3	3			1	2	2	3	2	3	
CO5	3		3				3	2		2		2			3
CO6	3	3	1	1	2	3	3		3		3		2		3

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

(19BCBP03) - BIOCHEMISTRY AND BIOPHYSICS

Placement: First Year

Time Allotted

Section A (Biochemistry)-Theory 30 hrs Credit 1.5

Section B (Biophysics) -Theory 30 hrs Credit 1.5

Course Description:

This course introduces the basic principles of Biochemistry and Biophysics related to Nursing.

OBJECTIVES

At the end of the course, the student will:

1. Identify the basic principles of Biochemistry and Biophysics.
2. Synthesize the knowledge of these principles in various Nursing situations.

Section A: Biochemistry

Course Contents

Theory – 30 hrs

UNIT I

- Introduction: Importance of Biochemistry in Nursing.
- Study of cell and its various components.

UNIT II

- Water and Electrolytes: Water – Sources, property & functions in human body.
- Water and fluid balance.
- Electrolytes of human body, functions, sources.

UNIT III

- Enzymes
- Mechanism of action
- Factors affecting enzyme activity
- Diagnostic applications
- Precautions for handling specimens for enzyme estimation.
- Digestion and absorption of carbohydrates, proteins and fats
- Various factors influencing the digestion and absorption, mal-absorption syndrome.

UNIT IV

- Carbohydrates: Catabolism of carbohydrates for energy purposes.
- Mitochondrial oxidation and oxidation phosphorylation.
- Fats of glucose in the body. Storage of glucose in the body, glycogenesis, glycogenolysis and neoglucogenesis, blood glucose and its regulation.
- Glucose tolerance test, hyperglycaemia, hypoglycaemia, glycemia.

UNIT V

- Protein: Amino acids, hormones.
- Essential amino acids. Biosynthesis of protein in the cells.

- Role of nucleic acid in protein synthesis.
- Nitrogenous constituents of urine, blood, their origin – urea cycle, uric acid formation, gout.
- Plasma proteins and their functions.

UNIT VI

- Fat: Biosynthesis of fats and storage of fats in the body.
- Role of liver in fat metabolism.
- Biological importance of important lipids and their functions
- Cholesterol and lipoprotein
- Sources, occurrence and distribution
- Blood level and metabolism
- Ketone bodies and utilization.
- Inter relationship in metabolism and cellular control of metabolic processes.

Section B: Biophysics

Course Contents

Theory – 30 hrs

UNIT I

- Introduction: Concepts of unit and measurements.
- Fundamental and derived units. • Units of length, weight, mass, time.

UNIT II

- Vector and scalar motion, speed, velocity and acceleration.

UNIT III

- Gravity: Specific gravity, centre of gravity, principles of gravity.
- Effect of gravitational forces on human body.
- Application of principles of gravity in Nursing.

UNIT IV

- Force, work, energy: their units of measurement.
- Type and transformation of energy, forces of the body, static forces.
- Principles of machines, friction and body mechanics.
- Simple mechanics – lever and body mechanics, pulley and traction, incline plane, screw.
- Application of these principles in Nursing.

UNIT V

- Heat: Nature, measurement, transfer of heat.
- Effects of heat on matter.
- Relative humidity, specific heat.
- Temperature scales.
- Regulation of body temperature.

- Use of heat for sterilization.
- Application of these principles in Nursing.

UNIT VI

- Light: Laws of reflection.
- Focusing elements of the eye, defective vision and correction, use of lenses.
- Relationship between energy, frequency and wavelength of light.
- Biological effects of light.
- Use of light in therapy.
- Application of these principles in Nursing.

UNIT VII

- Pressures: Atmospheric pressure, hydrostatic pressure, osmotic pressure.
- Measurements of pressures in the body
- Arterial and venous blood pressures
- Ocular pressure
- Intracranial pressure
- Application of these principles in Nursing.

UNIT VIII

- Sound: Frequency, velocity and intensity.
- Vocalization and hearing.
- Use of ultrasound. Noise pollution and its prevention.
- Application of these principles in Nursing.

UNIT IX

- Electricity and electromagnetism: Nature of electricity, voltage, current, resistance and their units. •
Flow of electricity in solids, electrolytes, gases and vacuum.
- Electricity and human body.
- ECG, EEG, EMG, ECT.
- Pace makers and defibrillation.
- Magnetism and electricity.
- M.R.I. Scanning, C.A.T scan.

UNIT X

- Atomic energy: Structure of atom, isotopes and isobars.
- Radioactivity: Use of radioactive isotopes.
- Radiation protection units and limits, instruments used for detection of ionizing radiation. X Rays.

UNIT XI

- Principles of electronics: Common electronic equipment's used in patient care.

PRACTICUM

- Experiments and tests should be demonstrated wherever applicable

Course Outcomes (Cos)

CO1	Describe the structure, composition and functions of cell, Differentiate between prokaryote and eukaryote cell, identify techniques of microscopy and Describe the structure and functions of cell membrane
CO2	Explain the metabolism of carbohydrates
CO3	Explain the metabolism of Lipids
CO4	Explain the metabolism of Amino acids and Proteins
CO5	Describe types, composition and utilization of Vitamins & minerals
CO6	Describe Immune-chemistry

Mapping /Alignment of Cos with PO&PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	3	3	3	3	3	3	3		3	3	3	3	3
CO2	3			3		3		3		3		3	3	2	2
CO3	3	2		2	3			2		3	3	3		2	
CO4			3	3		3		2	1		2	1	1		3
CO5	3	3			3	3				2	3	2		3	
CO6	3	3	1	1	2	3	3	2	3		3	2	2	3	3

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

(19P04) - PSYCHOLOGY

Placement: First Year

Time Allotted: - 60 Hrs Credit: 3

Practical: -15 hrs Credit :0.75

COURSE DESCRIPTION:

This course is designed to reorient and widen the student's knowledge of fundamentals of psychology. The student is offered an opportunity to apply the theoretical concepts in the clinical setting and thereby understand the psychodynamics of patient behaviours. This course would also help the student to develop an insight into her own behaviour

OBJECTIVES

At the end of course, the student will:

1. Apply psychological principles while performing Nursing duties.
2. Distinguish the psychological processes during health and sickness.
3. Analyse own behaviour patterns.
4. Tabulate the psychological needs of the patients for planning Nursing care.
5. Participate in psychometric assessment of the client

COURSE CONTENTS

UNIT I

- Introduction: Definition of psychology, scope and methods of psychology.
- Relationship with another subject.

UNIT II

- Sensation, Attention and Perception: Definitions.
- Sensory processes: Normal and abnormal.
- Attention and distraction: Contributory factors.
- Characteristics of perception, Perception: normal and abnormal.

UNIT III

- Motivation: Definition and nature of motivation.
- Biological and social motives.
- Frustration and conflicts.
- Self- actualization.

UNIT IV

- Emotions: Definition of emotions, Expression and perception.
- Emotions in sickness.

UNIT V

- Personality: Definition, constituents of personality.

- Personality in sickness and Nursing.

UNIT VI

- Psychological aspects of Nursing.
- Behaviour and sickness. Psychological needs of:
 - Child and adolescents
 - Adult
 - Aged
 - Attendants
 - Chronically ill individual.

UNIT VII

- Individual differences.
- Significance of individual differences.
- Heredity and environment.
- Role of individual differences both in health and sickness.
- Implications of individual differences in Nursing.

Unit VIII

- Intelligence and abilities: Definition.
- Intelligence and abilities during sickness.
- Measurement of intelligence and abilities.

UNIT IX

- Learning: Definition, Conditions of learning.
- Laws of learning.
- Learning during health and sickness.

UNIT X

- Memory and forgetting: Definition and nature of memory.
- Memory during health and sickness.
- Forgetting during health and sickness.

UNIT XI

- Attitudes: Definition, development and modification.
- Role of attitudes in health and sickness.

UNIT XII

- Concept of mental hygiene & mental health.
- Characteristics of a mentally healthy person.
- Defence mechanisms.

PRACTICUM

1. Simple experiments on (i) perception (ii) measuring thresholds (iii) reaction time.
2. Administration of psychological tests.
3. Observation and recording data: (i) field observation (ii) interview (iii) Case study (iv) Self rating

Course Outcomes (Cos)

CO1	Describe the history, scope and methods of psychology
CO2	Explain the biology of Human behavior
CO3	Describe various cognitive processes and their applications
CO4	Describe motivation, emotions, stress, attitudes and their influence on Behavior
CO5	Explain the concepts of personality and its influence on behavior
CO6	Describe psychology of people during the life cycle

Mapping /Alignment of Cos with PO&PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	3		3	3	3	3	3	3	3	3	3	3	3
CO2	3	3	3		3	3	2	3	3	3	3	3		2	2
CO3	3	2	3		3	3	3		2	3		3	2	2	3
CO4	3	3	3			3	3	2	1	2	2	3	2	3	3
CO5	3	3	3		3	3	3	2	3	2	3	2	3	3	3
CO6	3	3	1	1	2	3	3	2	3	2	3	2	2	3	3

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

(19M05) – MICROBIOLOGY

Placement: - First Year

Time Allotted

Theory -60 hrs	Credit: 3
Practical-30 hrs	Credit: 1.5

COURSE DESCRIPTION:

This course reorients the students to the fundamentals of Microbiology and its Various sub-divisions. It provides opportunities to gain skill in handling and use of microscope for identifying various micro-organisms. It also provides opportunities for safe handling of materials containing harmful bacteria and methods of destroying microorganisms.

OBJECTIVES

At the end of course the student will:

1. Identify common disease producing micro- organisms.
2. Explain the basic principles of microbiology and their significance in health and disease.
3. Demonstrate skill in handling specimens.
4. Explain various methods of dis-infection and sterilization.
5. Identify the role of the Nurse in hospital infection control system.

COURSE CONTENTS

UNIT I

- Structure and classification of microbes.
- Morphological types.
- Size and form of bacteria.
- Motility.
- Classification of micro-organisms.

Practical:

- Use and care of microscope.
- Common examination: Smear Blood, Moulds, and Yeasts.

UNIT II

- Identification of micro-organisms.
- Discussion of laboratory methods.
- Diagnosis of bacterial diseases.

Practical:

- Staining techniques- gram staining, acid fast staining.
- Hanging drop preparation.

UNIT III

- Growth and nutrition of microbes.
- Temperature.
- Moisture.
- Blood. Practical
- Preparation of media culture techniques.
- Collection, handling and transportation of various specimens.

UNIT IV

- Destruction of micro- organisms.
- Sterilization and disinfection.
- Chemotherapy and antibiotics.
- Effects of heat and cold.
- Hospital infection control procedure & role of Nurses.

Practical:

Sterilization methods – Physical, Chemical and Mechanical

UNIT V

- Disease producing micro- organisms.
- Gram positive bacilli.
- Tuberculosis and leprosy.
- Anaerobes.
- Cocci.
- Spirochaete.
- Rickettsia.

Practical:

Identification and study of the following bacteria: streptococci, Pneumococci, and Staphylococci Corynebacterium, Spirochetes and gonococci. Enteric bacteria, Posting in infection control department

UNIT VI

- Pathogenic Fungi.
- Dermatophytes.
- Systemic Mycotic infection.
- Laboratory diagnosis of Mycotic infection.

UNIT VII

- Immunity.
- Immunity and hypersensitivity - Skin test.
- Antigen and antibody reaction.
- Immunization in disease.

Practical:

Demonstration of serological methods.

UNIT VIII

- Parasites and vectors.
- Characteristics and classification of parasites.
- Protozoal infection including amoebiasis.
- Helminthes infection.
- Diagnosis of parasitic infection.
- Vectors and diseases transmitted by them.

Practical:

Identification of Parasites and Vectors.

UNIT IX

- Viruses.
- Classification and general character of viruses.
- Diseases caused by viruses in man and animal and their control.

UNIT X

- Micro-organisms transmitted through food.
- Food poisoning. Food borne infections.

PRACTICUM

Each student will practice in the laboratory as indicated in each unit of the courses outline

While giving nursing care in the wards they will practice collection and processing of specimens, prevention and control of hospital infections, sterilization, immunization, chemotherapy and maintenance of personal and environmental hygiene. Observation visits to incinerator, posting in CSSD and infection control department.

Course Outcomes (Cos)

CO1	Explain the structure and classification of microbes
CO2	Identify the micro-organisms
CO3	Describe the growth and nutrition of microbes.
CO4	Describe the different disease producing micro-organisms
CO5	Explain the pathogenic Fungi
CO6	Describe the immunity and hypersensitivity

Mapping /Alignment of Cos with PO&PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	O10	O11	O1 2	SO1	SO2	SO3
CO1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
CO2	3	3	3	3	3	3	2	3	3	3	3	3	3	2	2
CO3	3	2	3	3	3	3	3	2	2	3	3	3	2	2	3
CO4	3	3	3	3	3	3	3	2	1	2	2	3	2	3	3
CO5	3	3	3	2	3	3	3	2	3	2	3	2	3	3	3
CO6	3	3	1	1	2	3	3	2	3	2	3	2	2	3	3

(Tickmarkorlevelofcorrelation:3-High,2-Medium, 1-Low)

(19MN06) - MATERNAL NURSING

Placement: - First Year

Time Allotted

Theory -60 hrs Credit: 3

Practical-240 hrs Credit: 12

COURSE DESCRIPTION:

This course is designed to widen the student's knowledge of obstetrics during pregnancy, labour and puerperium. It also helps to acquire knowledge and develop skill in rendering optimum Nursing care to a child bearing mother in a hospital or community and help in the management of common gynaecological problems.

OBJECTIVES

At end of the course, the student will:

1. Describe the Physiology of pregnancy, labour and puerperium.
2. Manage normal pregnancy, labour and puerperium.
3. Explain the Physiology of lactation and advice on management of breast feeding.
4. Be skilled in providing pre- and post-operative Nursing care in obstetric conditions.
5. Identify and manage high risk pregnancy including appropriate referrals.
6. Propagate the concept and motivate acceptance of family planning methods.
7. Teach, guide and supervise auxiliary midwifery personnel.

COURSE CONTENTS

UNIT I

- Introduction and historical review.
- Planned Parenthood.
- Maternal morbidity and mortality rates.
- Legislations related to maternity benefits, MTP acts, incentives for family planning etc.

UNIT II

- Review of the Anatomy and Physiology of female reproductive system.
- Female pelvis (normal and contracted).
- Review of Foetal development.

UNIT III

- Physiology and management of pregnancy, labour and puerperium.
- Signs and symptoms and diagnosis of pregnancy.
- Antenatal care.
- Pregnant woman with HIV/ AIDS.
- Management of common Gynaecological problems.

UNIT IV

- The new born body.
- Care of the baby at birth including resuscitation.
- Essential new-born care:
- Feeding • Jaundice and infection
- Small & large for date babies.
- Intensive care of the new born
- Trauma and haemorrhage.

UNIT V

- Management of abnormal pregnancy, labour and puerperium.
- Abortion, ectopic pregnancy and vesicular mole.
- Pregnancy induced hypertension, gestational diabetes, anaemia, heart disease.
- Urinary infection, Antepartum haemorrhage.
- Abnormal labour (malposition & malpresentation):
- Uterine inertia
- Disorders of puerperium
- Management of engorged breast, cracked nipples, breast abscess and mastitis
- Puerperal sepsis
- Postpartum haemorrhage
- Inversion and prolapsed of uterus, obstetrical emergencies
- Obstetrical operation i.e., forceps, vacuum, episiotomy, caesarean section.

UNIT VI

- Drugs in obstetrics.
- Effects of drugs during pregnancy, labour and puerperium on mother & baby.

UNIT VII

- National Welfare Programmes for Women.
- National Family Welfare Programme.
- Infertile Family.
- Problems associated with unwanted pregnancy.
- Unwed mothers.

PRACTICUM

1. The student will:
 - a. Be posted in antenatal Clinic, MCH clinic, antenatal ward, labour room, postnatal ward, maternity OT, MTP room.
 - b. Visit welfare agencies for woman and write observation report.
 - c. Follow Nursing process in providing care to 3-6 patients.
 - d. Write at least two Nursing care studies and do a presentation.

- e. Give at least one planned health teaching to a group of mothers.
2. Practices following Nursing procedures –
 - a. Antenatal & Post-natal examination, per vaginal exam.
 - b. Conduct normal delivery, stitching of episiotomy, (for male candidate minimum conduct of 5 deliveries)
 - c. Motivation of family for adopting family planning methods.
 - d. Motivate family for Planned Parenthood.
 - e. Assist in various diagnostic and therapeutic procedures including IUD insertion and removal.

Course Outcomes (Cos)

CO1	Describe the physiology of pregnancy, labour and puerperium
CO2	Manage normal pregnancy, labor and puerperium.
CO3	Explain the physiology of lactation and advice on management of breastfeeding
CO4	Be skilled in providing pre and post-operative nursing care in obstetric conditions.
CO5	Identify and manage high risk pregnancy, labor, puerperium and neonates including appropriate referrals.
CO6	Propagate the concept and motivate acceptance of family planning methods.

Mapping /Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	2	3			2				1	2	2		
CO2	2	1						3		2			2		3
CO3			1		2	3			2		2	2			2
CO4	2	2	2	2	1			1		3			2	2	2
CO5	2			2			1		3				2		2
CO6	2	2	1			2	1	2		3	3	2	1	3	

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

(19CHN07) - CHILD HEALTH NURSING

Placement: - First Year

Time Allotted

Theory -60 hrs Credit: 3

Practical-240 hrs Credit: 12

COURSE DESCRIPTION:

This course is aimed at developing an understanding of the modern approach to child care, the common health problems of children and neonates in health and sickness.

OBJECTIVES

At the end of the course, the student will:

1. Explain the modern concept of child care and the principles of Paediatric Nursing.
2. Describe the normal growth and development of children at different ages.
3. Manage sick as well as healthy neonates and children.
4. Identify various aspects of preventive Paediatric Nursing and apply them in providing Nursing care to children in hospital and community.

COURSE CONTENTS

UNIT I

- Introduction.
- Modern concept of child care.
- Internationally accepted rights of the child.
- National policy and legislations in relation to child health and welfare.
- National programmes related to child health and welfare.
- Changing trends in hospital care, preventive, promotive and curative aspects of child health.
- Child morbidity and mortality rates.
- Differences between an adult and child.
- Hospital environment for a sick child.
- The role of a Paediatric Nurse in caring for a hospitalized child.
- Principles of Pre- and Post-operative care of infants and children. • Paediatric Nursing procedures.

UNIT II

- The healthy child.
- Growth and development from birth to adolescence.
- The needs of normal children through the stages of development and parental guidance.
- Nutritional needs of children & infants' breast- feeding, supplementary/ artificial feeding and weaning.
- Accidents, causes and prevention.

- Value of play selection of play material.
- Preventive immunization.

UNIT III

- Nursing care of a neonate.
- Nursing care of a normal new-born.
- Neonatal resuscitation.
- Nursing management of a low-birth-weight baby.
- Nursing management of common neonatal disorders.
- Organization of neonatal unit. Preventive of infections in the nursery.

UNIT IV

- Nursing management in common childhood diseases.
- Nutritional deficiency disorders.
- Respiratory disorders and infections.
- Gastrointestinal infections, infestations and congenital disorders.
- Cardio vascular problem-congenital defects and rheumatic fever.
- Genito-urinary disorder – Nephrotic syndrome, Wilms' tumour, infection and congenital disorders.
- Neurological infections and disorders- convulsions, epilepsy, meningitis, hydrocephalus, spinabifida.
- Haematological disorders – Anaemias, Thalassemia, ITP, Leukaemia, haemophilia.
- Endocrine disorders – Juvenile Diabetes Mellitus.
- Orthopaedic disorders – club foot, hip dislocation and fracture.
- Disorders of skin eye and ears.
- Common Communicable Diseases in children, their identification, Nursing management in hospital and home and prevention.
- Paediatric emergencies – poisoning, foreign bodies, haemorrhage, burns and drowning.

UNIT V

- Management of behavioural disorders in children.
- Management of challenged children:
 - Mentally challenged
 - Physically challenged
 - Socially challenged.

PRACTICUM

The student will:

1. Be posted in Paediatric Medical and Surgical wards, OPD in hospital, health centre and neonatal units.
2. Visit a centre for handicapped children and child welfare centre and write observation report.

3. Write an observational study of normal children of various age groups in home/ nursery school/ crèche.
4. Follow Nursing process in providing care to 3-6 children.
5. Write at least two Nursing care studies and do a presentation.
6. Give two planned health teachings, one in hospital and one in OPD / health centre.
7. Practice the following Nursing procedures: - Taking paediatric history - Physical assessment of children - Baby bath - Feeding - Restraining.
8. Calculation of dosage of drugs and administration of medications and injections.
9. Collection of specimens.
10. Enema, bowel wash, colostomy irrigation.
11. Steam and oxygen inhalation.
12. Preparation to assist with diagnostic tests and operations.
13. Examination / Assessment of a new-born.
14. Neonatal resuscitation.
15. Care of a baby in incubator and on ventilator.
16. Photo Therapy.
17. Assist in exchange transfusion and other therapeutic procedures

Course Outcomes (Cos)

CO1	Remember is remembering, recognizing and recalling important concepts. It includes factual information with right and wrong answers.
CO2	Understand is the thought processes of interpreting, exemplifying, classifying, summarizing, inferring, comparing, and explaining of interpreting, translating from one medium to another and Describing in one's own words.
CO3	Apply is executing and implementing, showing the practical use of information in one's environment. It is problem solving and applying information to produce a result.
CO4	Analyze is the processing, researching and guessing of problems or situations. It is differentiating, organizing, and attributing and includes subdividing concepts in order to show how they are put together in an effort to find the underlying structure. It allows for conclusions to be made about client care.
CO5	Evaluate is checking and critiquing. It is the examination of the plan of care and determination of its effectiveness.
CO6	Create is generating, planning, and producing. It allows for the creation of individualized plans of care.

Mapping/Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
CO2	3	3	3	3	3	3	2	3	3	3	3	3	3	2	2
CO3	3	2	3	3	3	3	3	2	2	3	3	3	2	2	3
CO4	3	3	3	3	3	3	3	2	1	2	2	3	2	3	3
CO5	3	3	3	2	3	3	3	2	3	2	3	2	3	3	3
CO6	3	3	1	1	2	3	3	2	3	2	3	2	2	3	3

(Tick mark or level of correlation:3-High,2-Medium,1-Low)

(19MSN08) - MEDICAL SURGICAL NURSING

Placement: - First Year

Time Allotted

Theory-90 hrs Credit: 4.5

Practical-270 hrs Credit: 13.5

COURSE DESCRIPTION:

The purpose of this course is to widen the students' knowledge and develop proficiency in caring for patients with medical surgical problems. This course includes review of relevant Anatomy and Physiology, Pathophysiology in Medical Surgical disorders and Nursing management of these conditions.

OBJECTIVES

At the end of the course, the student will:

1. Explain relevant Anatomy and Physiology of various systems of the body.
2. Explain Pathophysiology of various disorders.
3. Explain the actions, side effects and Nursing implications in administering drugs for various disorders.
4. Discuss the recent advancement in the treatment and care of patients with medical surgical conditions.
5. Develop skill in giving comprehensive Nursing care to patients following the steps of Nursing process.
6. Assist the patients and their families in identifying and meeting their own health needs.
7. Appreciate the role of the nurse in the medical surgical health term.

COURSE CONTENTS

UNIT I

- Introduction to Medical Surgical Nursing.
- Review of concepts of comprehensive Nursing care in medical surgical conditions.
- Nurse, patient and his/ her family.
- Functions of Nurse in the Outpatient Department.
- Intensive care unit.

UNIT II

- Nursing management of patient with specific problems:
- Fluid and electrolyte imbalance.
- Dyspnoea and cough, Respiratory obstruction
- Fever
- Shock
- Unconsciousness
- Pain • Acute illness
- Chronic illness
- Terminal illness

- Age related illness
- Patient undergoing surgery
- Incontinence.

UNIT III

- Nursing management of patient with Neurological and Neurosurgical conditions.
- Review of Anatomy and Physiology of the Nervous System.
- Pathophysiology, diagnostic procedures and management of.
- Cerebro-vascular accident.
- Cranial spinal and peripheral Neuropathies.
- Headache and intractable pain.
- Epilepsy.
- Infectious and inflammatory diseases and trauma of the Nervous System.
- Common disorders of the system.
- Recent advances in diagnostic and treatment modalities.
- Drugs used in these disorders.
- Tumours of brain & Spinal cord, congenital malformations, degenerative diseases.

UNIT IV

- Nursing management of patient with Cardiovascular problems.
- Review of relevant Anatomy and Physiology of Cardiovascular system.
- Pathophysiology, diagnostic procedures and management of:
- Ischemic Heart diseases
- Cardiac arrhythmias
- Congestive heart failure
- Rheumatic and other valvular heart diseases
- Endocarditis, cardiomyopathies, congenital heart diseases, hypertension, heart block
- Cardiac emergencies: Cardiac Arrest, acute pulmonary oedema, cardiac tamponade, cardiogenic shock, aneurysms and peripheral vascular disorders, recent advancement in cardiology.

Unit V

- Nursing management of patient with respiratory problems.
- Review of Anatomy and Physiology of respiratory system Pathophysiology, diagnostic procedures and management of upper respiratory tract infections:
- Bronchitis
- Asthma
- Emphysema, Empyema, Atelectasis, COPD
- Bronchiectasis
- Pneumonia

- Pulmonary tuberculosis
- Lung abscess • Pleural effusion
- Tumours and cysts
- Chest injuries
- Respiratory arrest and insufficiency
- Pulmonary embolism
- Drugs used in the management of these patients
- Special respiratory therapies.

UNIT VI

- Nursing management of patient with Genito-urinary problems.
- Review of Anatomy and Physiology of the Genito-urinary System
- Nephritis
- Renal calculus
- Acute renal failure
- Chronic renal failure
- End stage renal disease.
- Special procedures, dialysis, renal transplant.
- Drugs used in management of these patients.
- Congenital disorders, urinary infections.
- Benign prostate hypertrophy.

UNIT VII

- Nursing management of patients with problems of the digestive systems.
- Review of Anatomy and Physiology of gastrointestinal system and accessory organs.
- Pathophysiology, diagnostic procedures and management of:
- G.I. Bleeding
- Peptic ulcer
- Infections
- Acute abdomen
- Colitis, diarrhoea, dysentery & mal-absorption syndrome.
- Cholecystitis
- Hepatitis, hepatic coma and cirrhosis of liver
- Portal hypertension
- Pancreatitis
- Tumours, Hernias, Fistulas, Fissures, Haemorrhoids.
- Drugs used in the management of these patients.

UNIT VIII

- Nursing management of patients with endocrine problems.
- Review of Anatomy and physiology and Pathophysiology of patients with:
- Thyroid disorders
- Diabetes mellitus
- Diabetes insipidus
- Adrenal tumour
- Pituitary disorders
- Diagnostic procedures.
- Nursing management of patient with above problems.
- Drug used in Endocrine problems.

UNIT IX

- Nursing management of patients with musculoskeletal problems.
- Review of anatomy, Physiology and Pathophysiology:
- Arthritis Osteomyelitis, Bursitis
- Fractures, dislocation and trauma
- Prolapsed disc
- Osteomalacia and osteoporosis
- Tumour
- Amputation.
- Diagnostic procedures
- Nursing management of patients with above problems.
- Prosthesis and Rehabilitation.
- Transplant & replacement surgeries.

UNIT X

- Nursing management of patient with disorders of female reproductive tract.
- Disorder of menstruation.
- Infections of the genital tract.
- Benign and malignant tumors of the genital tract.
- R.V.F., V.V.F.
- Climatic changes and associated problems.

UNIT XI

- Nursing management of patients with Oncological disorders.
- Types of Neoplasms and related Pathophysiology.
- Diagnostic procedures.
- Modalities of treatment and nurse's role.
- Special therapies – Chemotherapy and Radiotherapy

- Preventive measures, other therapies.

UNIT XII

- Nursing management of patient with burns.
- Nursing management of patient with reconstructive surgeries.

UNIT XIII

- Nursing management of patient with common communicable diseases & STD'S.
- Nursing management of patient with immunological disorders including HIV/AIDS.

UNIT XIV

- Nursing management of patient with diseases of eye, ear, nose, throat & skin.

UNIT XV

- Nursing management of patient with blood disorders
- Review of Anatomy & Physiology of Blood & Blood products.
- Pathophysiology, diagnostic procedures and management of blood disorders:
 - Anaemia
 - Leukaemia
 - Bleeding disorders
 - Haemophilia
 - Purpura etc.
- Blood transfusion, safety checks, procedure and requirements. Management of adverse transfusion reaction, records for blood transfusion.
- Management and counselling of blood donors, phlebotomy procedure, and post donation management.
- Blood bank functioning and hospital transfusion committee
- Bio-safety and waste management in relation to blood transfusion.

UNIT XVI

- Nursing in emergencies.
- Cardiac emergencies.
- Trauma. • Poisoning.
- Crisis management: Thyroid crisis, Hypertensive crisis and Adrenal crisis.

PRACTICUM

1. Students should be rotated in the selected medical & surgical areas, like Cardio Thoracic, Neurology, Urology, Orthopaedics, Gynaecology, Oncology, and Burns and Reconstructive surgical units.
2. The students should be given patient assignment. They have practices patient centered comprehensive Nursing.
3. Each student is requested to give planned health teachings, conduct clinical teaching, case presentation and drug study.

Course Outcomes (Cos)

CO1	Explain relevant anatomy and physiology of various systems of the body.
CO2	Explain pathophysiology of various disorders.
CO3	Explain the actions, side effects and nursing implications in administering drugs for various disorders.
CO4	Discuss the recent advancement in the treatment and care of patients with medical surgical conditions.
CO5	Develop skill in giving comprehensive nursing care to patients following the steps of nursing process.
CO6	Assist the patients and their families in identifying and meeting their own health needs.

Mapping /Alignment of Cos with PO&PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3		3	3	3		3	3	3	3	3	3	3	3
CO2	3	3	3	3	3	3	2	3	3	3	3	3	3	2	2
CO3	3	2		3	3		3	2	2		3	3	2		3
CO4	3	3	3	3	3			2		2		3	2	3	3
CO5	3	3	3	2	3	3	3	2	3	2	3	2	3	3	3
CO6	3	3	1	1		3	3	2		2	3	2	2	3	

(Tick mark or level of correlation: 3-High,2-Medium,1-Low)

(19E09) – ENGLISH

Placement: -First Year

Time Allotted

Theory -60 hrs Credit: 3

COURSE DESCRIPTION:

This course is designed to help the students understand and use skills of English language required for their professional work.

OBJECTIVES

After the course the student will develop:

1. Ability to speak and write grammatically correct English.
2. Effective skill in reading and understanding the English language.
3. Skill in reporting.

COURSE CONTENTS

UNIT I

- Remedial study of Grammar.
- Review of grammar, vocabulary and effective use of dictionary. • Prepare task-oriented seminars. • Symposia and panel discussion.

UNIT II

- The ability to understand selected passage and express meaning in one's own words.
- Reading and comprehension of the prescribed books.

UNIT III

- The study of various forms of composition:
- Note taking
- Diary
- Nurse notes, Anecdotal records
- Writing of summary
- Nurses' reports on health problems. The student will submit one sample of each item from his/her own practical experience.

UNIT IV

- Verbal communication.
- Oral reports.
- Summarizing of the discussion.
- Debate.
- Listening comprehension- film, cassette and radio.

PRACTICUM

1. The clinical experience in the wards and bed side nursing will provide opportunity for students to fulfil the objectives of learning language.
2. Assignment on writing and conversation through participation in Discussion, Debates, Seminars and Symposia. The students will gain further skill in task-oriented communication

Course Outcomes

CO1	Ability to Speak and write grammatically correct English.
CO2	Ability to understand select passage and express words.
CO3	Study of various forms of composition...
CO4	Develop verbal communications.
CO5	Analyze various forms of composition
CO6	Create comprehension- film, cassette and radio.

Mapping /Alignment of Cos with PO&PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	O10	O11	O1 2	SO1	SO2	SO3
CO1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
CO2	3	3	3		3	3			3			3		2	2
CO3	3		3		3	3	3	2	2		3	3	2		3
CO4	3	3	3	3	3	3	3		1	2	2	3	2	3	3
CO5	3		3	2		3	3		3	2			3	3	3
CO6	3	3	1	1	2	3	3	2	3	2	3	2	2	3	3

(Tick mark or level of correlation: 3-High,2-Medium, 1-Low)

ELECTIVE COURSES

19ECN101 - NURSING INFORMATICS

Introduction: This course introduces the basic principles of NURSING INFORMATICS Challenges related to Nursing. It is further, structured to Synthesize the knowledge of these principles in various Nursing situations

Course Objectives

1. Discuss nursing and healthcare informatics competencies as they relate to the goals of clinical practice.
2. Recognize the use and importance of nursing data for improving practice.
3. Analyze web-based health content for literacy level, accuracy, and reliability of information for clinical populations.
4. Describe examples of information technologies to expand information communication among nurses, health disciplines and health consumers.
5. Assess the elements of effective electronic health records (EHR) to support and manage nursing practice.
6. Describe the key role of clinician's involvement in the design, selection, implementation and evaluation of applications/systems in Healthcare.
7. Utilize a variety of electronically accessible, credible resources applicable for nursing practice, including evidence-based practice

SL NO	Nursing informatics	Hrs.	Alignment to Cos
1	Introduction: 1: Introduction to Informatics What is Informatics? Informatics Competencies Language of Informatics	4(T)	CO1
2	Information Resources for Nurses and Consumers Behaviors of health information seekers Introduction to the Internet Health Literacy	5(T)	CO2 CO4

	Behaviors of health information seekers Introduction		
3	Electronic Records Introduction & Background of EHR EHR's Impact on quality and EBP	5(T)	CO1 CO3
4	Nursing Practice Applications Clinical Practice Nursing Education Nursing Systems Management/ Administration	4(T)	CO4
5	Effective Electronic Communication Guidelines	4(T)	CO4
6	Sources application	4(T)	CO4
7	Disability: Definition and classification of disability; psychosocial models of disability; impact, needs and problems; issues related to assessment/certification of disability – areas and measures.	4(T)	CO4

Teaching- Learning Strategies

1. Lecture cum Discussion
2. Seminar
3. Class room Exercises
4. Demonstration
5. Assignments
6. Experiments

Assessment Techniques of each topic of the course

S. No	Topic	Assessment techniques
1.	Introduction	Short answer and objective type
2.	Nursing data	Short answer and objective type
3.	Literacy level	Short answer and objective type
4.	Health consumers	Seminar
5.	Health care	Presentations,
6.	Manage nursing practice	Short answer& presentation, Objective type,

Course Outcomes (Cos)

CO1	Remember the course layout and overall expectations
CO2	Understand the making technology work for success.
CO3	Apply know meeting course expectations
CO4	Analayze the students and faculty and with a wide variety of electronically available resources.
CO5	Evaluate the collaborative learning with peer and small group.
CO6	Create the aspects of the course may be invited to participate in discussions.

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	1	1	3	1	2	2	2	1	1	2	1	2	1
CO2	1	1	1	1	2	1	1	1	1	1	1	1	1
CO3				1	1	1				1	1	2	1
CO4	1	1	1	1	2	1			2	2	1	1	1
CO5	1	2	1	1	1	1	1	1	1	3	1		
CO6	1	1	1	3	1	1	1	1	1	2	1	1	1

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

19ECRT02 - REPRODUCTIVE TECHNOLOGY

Introduction: This course introduces the basic principles of reproductive technology related to Nursing. It is further, structured to Synthesize the knowledge of these principles in various Nursing situations

Course Objective and Summary

1. Reproductive anatomy and physiology of the male and the female.
2. Reproductive endocrinology.
3. Gametogenesis.
4. Fertilization in vivo.
5. Implantation and early embryogenesis.
6. Pathology of infertility - Causes of infertility namely the ovarian, tubal, uterine, male factors, pathology that reduces fertility namely endometriosis, fibroid, adenomyosis uterine anomaly, etc.
7. Approach to investigate and diagnose sub-fertility.
8. Clinical decision making and choice of treatment.
9. Pharmacology - Pharmacological effects of the various drugs including the pharmacokinetics and pharmacodynamics of the commonly used drugs

SL NO	REPRODUCTIVE TECHNOLOGY	Hrs.
1	Introduction to Ovulation induction protocols	3(T)
2	Identification on Ultrasound and other imaging	3(T) 5(P)
3	Introduction Clinical Embryology, Embryo disposition	3(T)
4	Behavior analysis and behavioral intervention of far adults	3(T)
5	Surgical training ,ART ,IVF & Surrogacy	4(T) 4(P)
6	Sterilization, Sperm donation, Genomic and stem cell technologies	2(T) 3(P)

Teaching- Learning Strategies

7. Lecture cum Discussion
8. Seminar
9. Class room Exercises
10. Demonstration
11. Assignments
12. Experiments

Assessment Techniques of each topic of the course

S. No	Topic	Assessment techniques
7.	Introduction	Short answer and objective type
8.	Fertilization	Short answer and objective type
9.	adenomyosis uterine	Short answer and objective type
10.	endometriosis	Seminar
11.	fibroid,	Presentations,
12.	pharmacodynamics	Short answer& presentation, Objective type,

Course Outcomes (Cos)

CO1	Remember Reproductive endocrinology.
CO2	Understand Pathology of infertility
CO3	Apply Clinical decision making
CO4	Analyze Pharmacological effects of the various drugs
CO5	Evaluate the investigate and diagnose sub-fertility
CO6	Create the Fertilization in vivo.

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	1	1	3	1	2	2	2	1	1	2	1	2	1
CO2	1	1	1	1	2	1	1	1	1	1	1	1	1
CO3	1	1	1	1				1	1			2	1
CO4	1			1				1	2			1	1
CO5	1	2	1	1	1	1	1	1	1	3	1	1	1
CO6	1	1	1	3	1	1	1	1	1	2	1	1	1

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

19ECTLS03 - TRAUMA LIFE SUPPORT

Introduction: This course introduces the basic principles of Trauma Life Support related to Nursing. It is further, structured to Synthesize the knowledge of these principles in various Nursing situations

Course Objectives

1. Epidemiology of Trauma cases in India
2. Trauma Systems in India
3. Pre-hospital care
4. Initial Assessment
5. Airway management and Ventilation
6. Shock Management
7. Diagnostic and Interventional radiology in trauma
8. Principles of Anesthesia and pain management in trauma
9. Transfer to Definitive Care.

SL NO	TRAUMA LIFE SUPPORT	Hrs.
1	Introduction - Traumatic Injuries Head Trauma	6(T)
2	Spinal Trauma Thoracic Trauma	6(T)
3	Abdominal Trauma Musculoskeletal Trauma	6(T)
4	Treatment of Burns Special Populations Civilian Tactical EMS Support (TEMS)	6(T)
5	Geriatric Trauma Pediatric Trauma Environmental Emergencies	6(T)

Teaching- Learning Strategies

13. Lecture cum Discussion
14. Seminar
15. Class room Exercises
16. Demonstration
17. Assignments
18. Experiments

Assessment Techniques of each topic of the course

S. No	Topic	Assessment techniques
13.	Introduction	Short answer and objective type
14.	Airway Management	Short answer and objective type
15.	Hospital Care	Short answer and objective type
16.	Shock Management	Seminar
17.	Patient Management	Presentations,
18.	Definitive Care	Short answer& presentation, Objective type,

Course Outcomes (Cos)

CO1	Remember the establish a system for managing a trauma patient.
CO2	Understand the focus the principles of primary and secondary assessment to the acutely unwell trauma patient.
CO3	Apply Know appreciate the clinical anatomy of life saving interventions in the trauma patient.
CO4	Analyze Know Understand management of Head & Spinal injuries.
CO5	Evaluate the Understand initial management of Thermal injuries.
CO6	Create strategies for environmental emergencies

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	1	1	3	1	2	2	2	1	1	2	1	2	1
CO2	1	1	1	1			1	1	1	1	1	1	1
CO3	1	1	1			1			1	1			1
CO4	1	1	1	1	2	1	1	1	2		1	1	1
CO5	1			1		1	1			3	1	1	1
CO6	1	1	1		1	1	1	1	1	2			1

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

19ECOP04-PAEDIATRIC ORTHOPAEDIATRICS

Introduction: This course introduces the basic principles of Paediatric Orthopaedics related to Nursing. It is further, structured to Synthesize the knowledge of these principles in various Nursing situations

Course Objective

1. To develop a systemic approach to interact and examine paediatric patient and develop decision making skills in assessment and management of orthopaedic problems.
2. To develop and sharpen skills in interpretation of paediatric musculoskeletal radiology.
3. To attain basic knowledge of diagnosing and managing the problems specific to paediatric age group
4. To obtain experience in scientific data collection, analysis interpretation, publication and surgical audit.

SL NO	TRAUMA LIFE SUPPORT	Hrs.
1	Introduction Growth and Development. Gait analysis.	6(T)
2	Imaging a paediatric patient. Anatomic disorders.	6(T)
3	Scoliosis, kyphosis and other disorders of spine. Congenital deformities of upper limb.	6(T)
4	DDH, Perthes disease, SCFE and other disorders of Hip. Congenital dislocation of knees.	6(T)
5	Congenital disorders of ankle and foot. Limb length discrepancy – Causes, assessment and planning of treatment.	6(T)

Teaching- Learning Strategies

19. Lecture cum Discussion
20. Seminar
21. Class room Exercises
22. Demonstration
23. Assignments
24. Experiments

Assessment Techniques of each topic of the course

S. No	Topic	Assessment techniques
19.	Introduction	Short answer and objective type
20.	Airway Management	Short answer and objective type
21.	Hospital Care	Short answer and objective type
22.	Shock Management	Seminar
23.	Patient Management	Presentations,
24.	Definitive Care	Short answer& presentation, Objective type,

Course Outcomes (Cos)

CO1	Remember the Surgery for congenital and developmental disorders of hips.
CO2	Understand the Pelvic osteotomies.
CO3	Apply Know Deformity correction.
CO4	Analyze Know CP reconstructive surgeries and Botox injection.
CO5	Evaluate the Congenital and adolescent scoliosis surgery.
CO6	Create nursing measures for child with congenital anomalies of ankle & foot .

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	1	1	3	1	2	2	2	1	1	2	1	2	1
CO2	1	1	1	1	2	1	1	1	1	1	1	1	1
CO3							1	1	1			2	1
CO4	1	1	1	1	2	1	1	1	2	2	1	1	1
CO5	1	2	1			1				3	1	1	1
CO6	1	1	1	3	1	1	1	1	1	2			

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

19ECHA05 - Hospital administration

Introduction: The program prepares them to deal with the finance, marketing, and operations that are important in the hospital industry. The program focuses on developing knowledge, skill, and attitude that are required in Hospital Managers.

Course Objective

1. To have an idea about management concepts, theories, functions and process
2. To describe the roles and levels of Hospital Administration
3. It offers the students a solid background in business management and
4. It also provides the knowledge of healthcare administration to the students
5. The students are prepared to deal with social, ethical, political, economic, and legal challenges that form a part of the hospital administration.
6. The program provides the students with training in planning, project and operational management, financial, material and human resource management to help them grow astute leadership and management skills.

SL NO	Hospital administration	Hrs.
1	• Hospital Organisation • Process of Hospital Planning, • Hospital Design –Guiding Principles in Planning and Designing –planning of different types of hospitals –Equipment planning –Operations Planning- • Hospital Building - Space requirements –Hospital project management. Hospitals for tomorrow.	6(T)
2	• Biomedical Waste Management – Meaning, Categories of Biomedical Wastes, Disposal of biomedical wastes, Incineration and its importance. Standards for waste autoclaving, microwaving and deep burial, Segregation, Packaging, Transportation and Storage., Modern sewage treatment methods, Solid and Liquid wastes and their treatment. Waste disposal, State and Government Regulations, Colour code practices , Waste segregation, Agencies appointment for waste disposal, Environmental safety	7(T)
3	• Concept of Budget, • Budgeting and Budgetary Control, • Types of Budgets and their preparation and Advantages and Limitations of Budgetary Control	4(T)
4	• . Inventory - Definition, need, scope, objective and importance of for inventory control, impact of inventory control on profitability of the organization Different items in hospital inventory and their categories.	5(T)

5	• Definition of Quality, • Dimensions of Quality, • Quality Planning, • Quality costs - Analysis of Quality Costs, • Basic concepts of Total Quality Management	8(T)
6	• Hospital infection control committee's – Infrastructure facilities, & types of Hospital infections Unit II Identification of high risk areas of infection	3(T)

Teaching- Learning Strategies

1. Lecture cum Discussion
2. Seminar
3. Class room Exercises
4. Demonstration
5. Assignments
6. Experiments

Assessment Techniques of each topic of the course

S. No	Topic	Assessment techniques
1.	hospital administration-define	Short answer and objective type
2.	Process of Hospital Planning	Short answer and objective type
3.	Biomedical Waste Management	Short answer and objective type
4.	Budgeting and Budgetary Control	Seminar
5.	types of Hospital infections	Presentations,
6.	Quality costs - Analysis of Quality Costs	Short answer& presentation, Objective type,
7.	Basic concepts of Total Quality Management	Short answer

Course Outcomes (Cos)

CO1	Remember the process of hospital planning.
CO2	Understand the biomedical waste management and environmental safety
CO3	Apply the concept of budget control
CO4	Analyze of quality costs.
CO5	Develop the variety of quality of planning
CO6	Create and Identification of high risk areas of infection prevention

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	1	1	3	1	2	2	2	1	1	2	1	2	1
CO2	1			1	2	1			1	1	1	1	1
CO3	1	1			1	1		1				2	1
CO4	1			1	2			1	2	2	1		1
CO5	1	2	1				1			3	1		
CO6	1			3	1	1			1	2	1	1	1

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

POST BASIC B.SC. NURSING YEAR – II (19SO10) -SOCIOLOGY

Placement: - Second Year

Time Allotted

Theory -60 hrs Credit: 3

COURSE DESCRIPTION:

This course is to reorient students to Sociological relation to community and social institution in India and its relationship with health, illness and Nursing.

OBJECTIVES

At the end of the course, the student will:

1. Describe Sociological concepts that are applicable to Nursing.
2. Determine role of Sociology in Nursing as related to social institutions in India.
3. Develop positive attitudes towards individual, family and community.

COURSE CONTENTS

UNIT I •

Introduction.

- Importance of study of Sociology in Nursing, relationship of Anthropology, Sociology, etc.

UNIT II

- Individual and the society.
- Socialization.
- Interdependence of the individual and society.
- Personal disorganization.

UNIT III

- Culture.
- Nature of culture.
- Evolution of culture.
- Diversity and uniformity of culture.

UNIT IV

- Social organization.
- Social groups, Crowds and Public groups, Nations, Race.
- Social Institutions: Family, Marriage, Education, Religion, Arts, Economic organization, Political organization.
- The Urban & Rural community in India: Ecology, characteristics of the village, characteristics of the town and city.
- Social stratification: Class and Caste.

UNIT V

- Social Process.
- Process of Social Interaction: Competition, Conflict- war, Cooperation, Accommodation and Assimilation.

UNIT VI

- Social Change.
- Nature and process of Social Change: Factors influencing cultural change.
- Cultural Lag.

UNIT VII

- Social Problems.
- Social disorganization control & planning: Poverty, Population Housing, Illiteracy, Food supplies, growth of urbanization, Prostitution, Minority groups, rights of woman & children, child labour, child abuse delinquency and crime, substance abuse

Course Outcomes (Cos)

CO1	Its studies society during a scientific way: Scientific, knowledge about human society is Required to realize progress in various fields.
CO2	Improve our understanding of society: Social groups, social institutions, their functions and the change in trends, etc. Help us to lead an effective meaningful social life.
CO3	Helps us to become broad-minded: Sociology has impressed upon its students to overcome their pre juices, egoistic ambitions, and call as sand religious hatreds. The study of societies has made people broad-minded.
CO4	English tenses regarding the major social institutions: Social institutions decide the strength and weaknesses of society. Institutions play a vital role in our social life. Knowledge of sociology may help to strengthen them to serve society better
CO5	Helps us to solve social problems: The study of sociology – helps to find out the causes of social ‘problems and suggests measures to solve social problems.
CO6	Social planning: Social planning has been made easier by sociology: it is often regarded as the vehicle of social reform and social reorganization.

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1		2	2	3			2					2	2		1
CO2	2		3		3		1			2			2	3	3
CO3		1	1		2				2		2	2			2
CO4	2	2	2	2		1		3		3			2	2	2
CO5	2	1		2			3		3			3	2		2
CO6	2	2	3			2		2	1	1		2			3

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

(19CHN11)- COMMUNITY HEALTH NURSING

Placement: - Second year

Time Allotted

Theory -60 hrs Credit: 3

Practical-240 hrs Credit: 12

COURSE DESCRIPTION:

The course enables the students to understand the national health care delivery system and to participate in the delivery of Community Health Nursing.

OBJECTIVES

At the end of the course, the student will:

1. Explain the concepts of various factors contributing to health of individual, family and Community.
2. Identify the role of a Community Health Nurse.
3. Describe National Health Care delivery system.
4. Describe Epidemiological methods and principles of prevention and control of illness in the community.
5. Identify the role of personnel working in the Community Health setting.
6. Plan the work of Community Health Nursing, and supervise and train health workers.

COURSE CONTENTS

UNIT I

- Introduction to Community Health – Concepts, Principles and Elements of Primary Health Care.
- Introduction to Community Health Nursing.
- Concept of Community Health Nursing – Community Nursing process.
- Objective, Scope and Principles of Community Health Nursing.

UNIT II

- Family Health Services.
- Concept, Objective, Scope and Principles.
- Individual, Family and Community as a unit of service.

- Principles and techniques of home visiting.
- Establishing working relationship with the family.
- Working with families in relation to prevention of diseases, promotion of health.
- Care of the sick in the home, physically handicapped and mentally challenged.
- Surveillance and Monitoring.

UNIT III

- Organization and Administration of health services in India.
- National Health Policy. • Health Care Delivery system in India.
- Health team concepts:
- Centre, State, District, Urban Health Services, Rural Health Services
- System of medicines
- Centrally sponsored health schemes
- Role of voluntary health organizations and International Health Agencies
- Role of health personnel in the community
- Public Health Legislation.

UNIT IV

- Health Education:
- Aims, Concepts and Scope of Health Education.
- National Plan for Health Education
- Communication Techniques
- Methods and media for health education programmes
- Planning for health education and role of nurse.

UNIT V

- Role of the Community Health Nurse.
- National Health Programmes:
- Maternal and child health programmes
- Family welfare and school health services

- Occupational health services.
- As a member of the health team.
- Training and supervision of health care workers.

UNIT VI

- Epidemiology
- Definition – concepts, aims, objectives, methods & principles,
- Epidemiology – theories and models.
- Application of Epidemiology, principles and concepts in community health.

UNIT VII

- Bio-Statistics and Vital Statistics.
- Introduction, definition and scope, legislation.
- Report, recording and compiling of vital statistics at the local, state, national and international level.
- Definition and methods of computing vital statistics.
- Methods of presenting data.
- Management information system.

PRASCTICUM

1. Each student will prepare a community profile.
2. The student will be allotted families for gaining experience in identifying family health needs, health counselling and guidance and family budgeting for optimum health.
3. The student will participate in the activities of primary health centre.
4. Sub-centre, MCH centre.
5. Visits will be made to selected health and welfare agencies, water purification plant and sewage disposal plant, infectious disease hospital, child welfare centre, old aged homes, orphanages and handicapped hospitals.
6. Conduct health educational programmes for individual/ groups/ community

Course Outcomes (Cos)

CO 1.	Explain the concept of various factors contributing to health of individual, family and community.
CO 2.	Identify the role of community health nurse.
CO 3.	Describe national health care delivery system.
CO 4.	Describe epidemiological methods and principles of prevention and control of illness in the community.
CO 5.	Identify the role of personnel working in the community health setup.
CO 6.	Plan the work of community health nurse and supervise and train health worker

Mapping /Alignment of Cos with PO&PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	2	3			2	3		1		2	2		3
CO2	2	1		3		2		1		2	1		2	3	
CO3		1	1		2	3	1		2		2	2			2
CO4	2	2	2	2			1		3		3		2	2	2
CO5	2	1		2		1		2			1		2		2
CO6	2	2		3		2		2	3			2			3

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

(19MHN12) - MENTAL HEALTH NURSING

Placement: - Second Year

Time Allotted

Theory -60 hrs Credit: 3

Practical-240 hrs Credit: 12

COURSE DESCRIPTION:

These courses enable the students to recognize and appreciate the causes, symptoms and process of abnormal human behaviour. It also introduces the student to the present-day treatment modalities in the light of psychological, social and cultural factors affecting human behaviour. This course helps the student to learn principles of Mental Health and Psychiatric Nursing and to develop beginning skills in the management of the mentally ill in hospital and community.

OBJECTIVES

At the end of course, the student will:

1. Identify and describe the Philosophy and Principles of Mental Health Nursing.
2. Describe the Historical Development of Mental Health and Psychiatric Nursing.
3. Classify Mental Disorders.
4. Develop skill in history taking and performing Mental status examination.
5. Describe etiological factors, Psychopathology, clinical features, diagnostic criteria and treatment methods used for mental disorders.
6. Manage the patients with various Mental disorders.
7. Communicate therapeutically with patients and their families.
8. Identify role of the Nurse in preventive psychiatry.
9. Identify the legal aspects in practice of Mental Health and Psychiatric Nursing.

COURSE CONTENTS

UNIT I

- Introduction and historical development.
- History of Psychiatry.
- Historical development of Mental Health Nursing.

- Philosophy, Principles of Mental Health Nursing and Psychiatric Nursing.
- Concept of normal and abnormal behaviour.
- Role and qualities of Mental Health and Psychiatric Nurse.
- Mental Health team and functions of team members.
- Legal aspects in Psychiatry and Mental Health services.

UNIT II

- Classification and assessment of mental disorders.
- Terminologies used in Psychiatry.
- Classification of mental disorders.
- Etiological factors and psychopathology of mental disorders.
- History taking and assessment method for mental disorders.

UNIT III

- Therapeutic communication.
- Communication process.
- Interview skills, therapeutic communication techniques. Nurse patient relationship, therapeutic impasse and its management process recording.

UNIT IV

- Management of mental disorders
- Etiological factors, psychopathology, types, clinical features, diagnostic criteria, treatment and Nursing management of patient with following disorders:
- Neurotic disorders: Anxiety Neurosis, Depressive Neurosis, Obsessive Compulsive Neurosis, Phobic Neurosis and Hypochondriacal Neurosis, stress related and somatoform disorders.
- Psychotic disorders: Schizophrenic form, Affective and Organic psychosis.
- Organic Brain syndromes • Psychosomatic disorders • Personality disorders • Disorders of Childhood and Adolescence.

UNIT V

- Management of patients with substance use disorders.

- Substance use and misuse.
- Dependence, Intoxication and Withdrawal
- Classification of Psychoactive Substances
- Etiological & Contributory factors
- Psychopathology
- Clinical features
- Diagnostic criteria.
- Treatment and Nursing management of patient with substance use disorders.
- Preventive and rehabilitative aspects in substance abuse.

UNIT VI

- Management of mental sub-normality.
- Classification of mental sub-normality.
- Etiological factors, psychopathology, psychometric assessment. Diagnostic criteria and management of sub-normality.

UNIT VII

- Psychiatric emergencies.
- Types of emergencies, psychopathology, clinical features, assessment and diagnosis, treatment and Nursing management of patient with Psychiatric emergencies.
- Crisis intervention therapy

Unit VIII

- Therapeutic modalities.
- Principles, indication, contraindications and role of Nurse in various treatment methods: Therapeutic community and Milieu therapy
- Occupational therapy
- Psychotherapy
- Behaviour therapy
- Group therapy

- Family therapy
- Pharmacotherapy
- Electro convulsive therapy
- Other miscellaneous therapies.

Unit IX

- Preventive Psychiatry.
- Model of prevention.
- Role of Nursing in preventive Psychiatry.
- Psychiatric social work.
- Community Mental Health Nursing.
- Community Mental Health agencies.
- National Mental Health programmes.

PRACTICUM

The student will be provided opportunity to:

1. Observe, Record and Report the behaviour of their selected patients.
2. Record the process of interaction.
3. Assess the Nursing needs of their selected patients, plan and implement the Nursing intervention.
4. Counsel the attendant and family members of patient.
5. Participate in the activities of Psychiatric team.
6. Write observation report after a field visit to the following places:
 - Child guidance clinic.
 - School / Special Schools (For mentally subnormal)
 - Mental Hospital,
 - Community Mental Health Centres.
 - De-addiction and Rehabilitation Centres.

Course Outcomes (Cos)

CO1	Identify and describe the philosophy and principles of mental health nursing
CO2	Describe the historical development of mental health and psychiatric nursing
CO3	Classify mental disorders
CO4	Develops skill in history taking and performing mental status examination
CO5	Describe etiological factors, psycho- pathology, clinical features, diagnostic criteria and treatment methods used for mental disorder.
CO6	Manage the patients with various mental disorders

Mapping /Alignment of Cos with PO&PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
CO2	3	3	3		3	3		3	3	3		3	3		2
CO3		2	3	3		3	3	2	2		3	3	2	2	3
CO4	3	3	3	3	3	3	3	2	1	2	2	3	2		3
CO5	3	3			3			2	3		3		3	3	3
CO6	3	3	1	1	2	3	3	2	3	2	3	2	2	3	3

(Tick mark or level of correlation: 3-High,2-Medium,1-Low)

(19NE13) -INTRODUCTION TO NURSING EDUCATION

Placement: - Second Year

Time Allotted

Theory -60 hrs Credit: 3

Practical-75 hrs Credit: 3.75

COURSE DESCRIPTION:

This course introduces the students to the principles and concepts of education, curriculum development, and methods and media of teaching. It also describes the steps in curriculum development and implementation of education programmes in Nursing.

OBJECTIVES

At the end of the course, the students will:

1. Describe the philosophy and principles of education.
2. Explain the teaching – learning process.
3. Develop the ability to teach using various methods and media.
4. Describe the process of assessment.
5. Describe the administrative aspects of school of Nursing.
6. Participate in planning and organizing an in-service education programme.
7. Develop basic skill of counselling and guidance.

COURSE CONTENTS

Unit I

- Introduction to education:
- Meaning of education, aims, function and principles.
- Philosophy of education:
- Factors influencing development of philosophy of Nursing Education.

UNIT II

- Teaching learning process.
- Nature and characteristics of learning.
- Principles and maxims of teaching

- Formulating objectives.
- Lesson planning.

UNIT III

- Methods of teaching:
- Teaching methods
- Lecturer
- Discussion
- Demonstration
- Group discussion
- Project
- Role play
- Panel discussion
- Symposium
- Seminar
- Field trip
- Workshop
- Exhibition
- Programmed instruction
- Computer assisted learning.
- Clinical teaching methods:
- Case methods • Case presentation
- Nursing rounds and reports
- Bedside clinic
- Conference (individual and group)
- Recording of interaction process.

UNIT IV

- Educational media.
- Communication Process: Factors Affecting Communication.
- Purpose and Types of Audio-Visual Aids.
- Graphics aids: Chalk-board, Charts, Graphs, Poster, Flash Cards, Flannel graph / Khadi graph, Bulletin, Cartoon,
- Three Dimensional Aids: Objects, Specimen, Models, Puppets.
- Printed Aids: Pamphlets and Leaflets.
- Projected Aids: Slides, Films and Television, VCR, VCP, Overhead Projector, Camera, Microscope.
- Audio Aids: Tape Recorder, Public address system, Computer.

UNIT V

- Methods of assessment.
- Purpose and Scope of evaluation and assessment.
- Criteria for selection of assessment techniques and methods.
- Assessment of knowledge: essay type question, SAQ (short answer questions).
- MCQ (multiple choice questions).
- Assessment of skills: observation, check list. Practical examination Viva, objective structured clinical examination.
- Assessment of attitude: Attitude scale.

UNIT VI

- Management of School of Nursing.
- Planning of school of Nursing, organization.
- Recruitment of teaching staff, budget, facilities for the school, student selection and admission procedure, administrative planning of students, welfare services for students, maintenance of school's records, preparation of annual reports, INC guidelines for schools of Nursing.

Unit VII

- Guidance and counselling: Definition.
- Basic principles of guidance and counselling.

- Organization of guidance and counselling services.
- Counselling process.
- Managing disciplinary problems.
- Management of crisis.

Unit VIII

- In-service education.
- Introduction to nature and scope of in-service education programme.
- Principles of adult learning.
- Planning for in-service programme.
- Techniques, and methods of staff education programme
- Evaluation of in- service programme.

PRACTICUM

Each student should:

1. Conduct five planned teaching using different methods and media.
2. Prepare different types of teaching aids.
3. Plan, organize and conduct in-service education programme
4. Conduct at least one counselling session.
5. Prepare rotation plan

Course Outcomes (Cos)

CO1	Describe the philosophy and principles of education
CO2	Explain the teaching–learning process and curriculum development
CO3	Develop the ability to teach, using various methods and media
CO4	Describe the process of assessment
CO5	Describe the administrative aspects of school of nursing
CO6	Participate in planning and organizing an in-service education programme

Mapping /Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C01		2	2	3			2					2	2		3
C02	2	1		3			3	1		2		1	2	3	
C03	3	1	2		2		2		2		2	2		1	2
C04	2	2	2	2		1		3	1		3	3	2	2	2
C05	2			2	1			1		3	2		2		2
C06	2	2		3		2		2		1		2			3

(Tick mark or level of correlation: 3-High,2-Medium,1-Low

(19NA14) - INTRODUCTION TO NURSING ADMINISTRATION

Placement: - Second Year

Time Allotted

Theory -60 hrs Credit: 3

Practical-180 hrs Credit: 9

COURSE DESCRIPTION:

This course is designed to give an opportunity to the student to gain an understanding of the principle of administration and its application to nursing service. It is also intended to assist the students to develop an understanding of professional leadership need.

OBJECTIVES

At the end of the course, the student will:

1. Identify the principles of administration.
2. Describe the principles and techniques of supervision.
3. Explain the principles and methods of personnel management.
4. Explain the principles of budgeting.
5. Organize and manage a Nursing unit effectively.
6. Identify dynamics of organizational behaviour, styles and functions of effective leadership.

COURSE CONTENTS

UNIT I

- Principles and Practices of administration.
- Significance, elements and principles of administration,
- Organization of Hospital – Definition, aims, functions, and classifications, health term.
- Policies of hospital, different departments with special emphasis to department of Nursing & office management.
- Responsibilities of the Nursing personnel especially of ward Sister, medico legal aspects, concept of cost effectiveness.

UNIT II

- Nursing Unit Management.

- Physical layout of a Nursing Unit and necessary facilities.
- Factors affecting the quality of Nursing care.
- Maintenance of a therapeutic environment
- Administration of the unit – management of patient care.
- Maintenance of physical environment.
- Assignment of duties and time plan.
- Patient assignment, safety measures, prevention of accidents and infections.
- Maintenance of patients' records and reports, legal responsibilities.
- Maintenance of quality Nursing care, Nursing audit.

UNIT III

- Personnel management.
- Staff recruitment and selection, appointment, promotions, personnel policies and jobs descriptions. • Job analysis.
- Staffing the unit, staffing norms, rotation plan, leave planning, performance appraisal, staff welfare and management of disciplinary problems.

UNIT IV

- Supervision.
- Principles of supervision, nature and objectives.
- Tools and techniques of supervision.
- Evaluation.
- Nursing audit.
- Staff development – orientation program.
- Skill training.
- Leadership development.
- Problem solving process.

UNIT V

- Material management.

- Principles of material management.
- Quality control.
- Inventory, care of equipment, safekeeping.
- Role of nursing personnel in material management.

UNIT VI

- Financial Management.
- Budgeting – principles of budgeting, audit.

UNIT VII

- Organizational Behaviour.
- Group dynamic and human relation, organizational communication (hospital information system).
- Public relation, leadership styles and functions.
- Methods of reporting.
- Maintaining records and reports.

PRACTICUM

1. Observe the functioning of Nursing administration at various level i.e., institution, Department, unit etc.
2. Each student will practice Ward Management under supervision.
3. Student will prepare rotation plan of the staff, write reports, give verbal reports of the ward and assist in maintaining the inventory of the Nursing unit.
4. Visit to private and government hospital and write observation reports.

Course Outcomes(Cos)

CO1	Identify the principles of administration
CO2	Describe the principles and techniques of supervision
CO3	Explain the principles and methods of personnel management
CO4	Explain the principles of budgeting
CO5	Organize and manage a nursing unit effectively
CO6	Identify dynamics of organizational behavior, styles and functions of effective leadership

Mapping /Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	2				2					2	2		3
CO2	2		3			1				2	1		2		
CO3					2		3		2		2	2			2
CO4	2	2	2	2	1	1			1	3		3	2	2	2
CO5	2			2									2		2
CO6	2	2	1		3	2		2			3	2		1	

(Tick mark or level of correlation:3-High,2-Medium,1-Low)

(19NRS15) - INTRODUCTION TO NURSING RESEARCH AND STATISTICS

Placement: - Second Year

Time Allotted

Theory -45 hrs Credit: 2.25

Practical-120 hrs Credit: 6

Course Description:

The course is designed to assist the students to develop an understanding of basic concepts of Research and Statistics, use the findings of Nursing Research in nursing practices, apply the knowledge in conducting project(S) and solve problems related to nursing using scientific method.

OBJECTIVES

At the end of the course, the students will:

1. Define the terms and concepts of Nursing Research.
2. Identify needs and scope of Nursing Research
3. Identify and define a Research problem
4. Locate and list sources of literature for a specific study
5. Describe different Research approaches, methods of data collection and sampling techniques with a special reference to survey method.
6. Develop tool for data collection.
7. Enumerate steps of data analysis and present data summary in tabular form.
8. Use descriptive and co-relational statistics in data analysis.
9. Conduct a group Research project.

COURSE CONSTANTS

A. INTRODUCTION TO RESEARCH METHODOLOGY

UNIT I

- Steps of scientific methods.
- Definition of Research.
- Need for Nursing Research.
- Characteristics of good research. Research process.

UNIT II

- Statement of Research problem.
- Statement of purpose and objectives.
- Definition of Research terms.
- Review of literature.

UNIT III

- Research approaches: historical, survey and experimental.

Unit IV

- Sampling techniques and methods of data collection.
- Sampling.
- Instrument-questionnaire, Interview.
- Observation schedule, records, measurements.
- Reliability and validity of instruments.

UNIT V

- Analysis of Data, Tabulation:
- Classification and summarization
- Presentation • Interpretation of data.

UNIT VI

- Communication of research findings.
- Writing report:
- Organizing materials for writing

- Format of the report • Use of computers.

B. INTRODUCTION TO STATISTICS

UNIT VII

- Descriptive Statistics.
- Frequency Distribution – Types of measure - frequencies, class interval, graphic methods of describing frequency.
- Measures of Central Tendency – Mode, Median, Mean.
- Measures of variability: Range, Standard deviation
- Introduction to normal probability.

UNIT VIII

- Correlation.
- Computation by rank difference methods.
- Uses of correlation co-efficient.

UNIT IX

- Biostatistics: Crude rates and standardized rates, ratio and estimation of the trends.

UNIT X

- Introduction to computers in Nursing.
- Introduction to Computer and disk – operating system
- Introduction to word processing
- Introduction to data base
- Window application: Word, Excel, Power point, Multimedia.
- Use of statistical packages.
- Introduction to internet & use of electronic mail.
- Computer aided teaching & testing.

PRACTICUM

Students will conduct research project in small groups in selected areas of Nursing and submit a report (group studies may include studying of existing health practices, improved practices of Nursing (procedures) health records, patient records and survey of Nursing (literature)

Course Outcomes (Cos)

CO1	Remember the research process
CO2	Understand the research problem and objectives
CO3	Apply or implement the nursing interventions to collect the data
CO4	Analyze and interpret the data
CO5	Develop and evaluate research proposal (based on Bloom's Taxonomy)
CO6	Create and conduct a group/individual research project

Mapping/ Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
CO2	2		2		2	1	2	2	2	2			2	2	3
CO3			2	2		3		2			2	2	2	2	2
CO4			2		2	2	2			2		3	1	2	2
CO5	2	2		1	2		2	2	2	2	2	3	2	2	1
CO6	3	2	2	2		2	2	1		2	2	2	2	2	2

(Tick mark or level of correlation: 3-High,2-Medium,1-Low

ELECTIVE COURSES

19ECSA06 - SUBSATANCE ABUSE

Introduction: This course introduces the basic principles of Subsatanance Abuse related to Nursing. It is further, structured to Synthesize the knowledge of these principles in various Nursing situations

Course Objective

1. Identify the basic principles of Subsatanance Abuse.
2. Synthesize the knowledge of these principles in various Nursing situations.
3. Understand the principles of various fields of Subsatanance Abuse.
4. Be able to work with others demonstrating leadership and collaborative skills
5. Apply modern instrumentation theory and practice to Subsatanance Abuse problems
6. Recognize potential laboratory safety concerns and address them using appropriate techniques
7. Produce scientific reports formatted for peer-reviewed publication, using the primary literature
8. Evaluate data and design experiments to test hypotheses relevant to the practice of Subsatanance Abuse.

SL NO	SUBSATANCE ABUSE	Hrs.
1	Introduction - Drug and Alcohol Abuse: Awareness, Counseling and Prevention Availability of Drugs	6(T)
2	Why do Humans Abuse Substances? Dependence and Addiction	6(T)
3	Effects of Use and Dependency - Potential Social Consequences of Substance Abuse Prevention in the Home	6(T)
4	Schools Workplace Prevention	6(T)
5	Assessment and Intervention Treatment Following Up	6(T)

Teaching- Learning Strategies

1. Lecture cum Discussion
2. Seminar
3. Class room Exercises
4. Demonstration
5. Assignments
6. Experiments

Assessment Techniques of each topic of the course

S. No	Topic	Assessment techniques
1	Introduction	Short answer and objective type
2	School	Short answer and objective type
3	Drug abuse	Short answer and objective type
4	Treatment	Seminar
5	Assessment and Intervention	Presentations,
6	Work Place in Home	Short answer& presentation, Objective type,

Course Outcomes (Cos)

CO1	Remember the Describe drug and alcohol abuse -- awareness, counseling, and prevention.
CO2	Understand the Describe why humans abuse substances.
CO3	Apply Know effects of use and dependency -- potential social consequences of substance abuse.
CO4	Analyze Know schools and drug use.
CO5	Evaluate the Determine assessment and intervention of drug abusers.
CO6	Create the Know workplace prevention techniques and policies of drug use.

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	1	1	3	1	2	2	2	1	1	2	1	2	1
CO2			1	1	2	1	1	1	1	1	1	1	1
CO3			1	1	1				1	1	1	2	1
CO4	1	1	1	1	2	1	1	1	2	2			1
CO5	1	2	1	1	1	1				3			1
CO6	1	1	1	3	1	1	1	1	1	2	1	1	1

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

19ECMHC07 - MENTAL HEALTH CHALLENGES

Introduction: This course introduces the basic principles of Mental Health Challenges related to Nursing. It is further, structured to Synthesize the knowledge of these principles in various Nursing situations

Course Objectives

1. Develop a critical understanding of the historical and contemporary perspectives on mental deviance or mental illness
2. Develop an appreciation of the subjective distress and/or experiences of individuals labeled as mentally deviant or mentally ill
3. Develop an appreciation of the dynamics of the institutional responses to mental deviance and of current conditions and programs
4. Develop an awareness of current classification and processing of the mentally disordered
5. Trace the history and current status of legal insanity, rights of patients, and related legal issues
6. Learn about the differential effects of mental disorder with regard to sex, age, race and socioeconomic status
7. Become familiar with research on mental conditions, treatments, and demographic variables in the mental health field
8. Become familiar with current issues in the field of mental health that affect research and practice

SL NO	MENTAL HEALTH CHALLENGES	Hrs.
1	Mental Illness and Society Concepts Definitions & Types of Mental Illness	5(T)
2	Environmental Theories of Mental Illness Schizophrenic, Delusional and Mood Disorders	5(T)
3	Medical Treatments – Medication and ECT Anxiety Disorders (Gallagher)	3(T) 2(P)
4	Treatment: The Inpatient Experience (Gallagher) After the Hospital (Gallagher)	5(T)
5	Epidemiology, Demographics, etc.(Gallagher) Personality Disorders (Gallagher)	5(T)
6	Substance Related Issues (Gallagher) Somatoform, Dissociative and Eating Disorders	3(T) 2(P)

Teaching- Learning Strategies

25. Lecture cum Discussion
26. Seminar
27. Class room Exercises
28. Demonstration
29. Assignments
30. Experiments

Assessment Techniques of each topic of the course

S. No	Topic	Assessment techniques
1.	Introduction	Short answer and objective type
2.	Schizophrenic	Short answer and objective type
3.	Delusional	Short answer and objective type
4.	Treatment	Seminar
5.	Eating Disorders	Presentations,
6.	Mental Illness	Short answer& presentation, Objective type,

Course Outcomes (Cos)

CO1	Remember the Mental health challenges of healthcare professionals.
CO2	Understand the Challenges in measuring for caregivers of people with mental health problems.
CO3	Apply Know Treatment for depression: challenges and opportunities.
CO4	Analyze the Grand challenges: improving HIV treatment by integrating interventions for co-morbid mental illness.
CO5	Evaluate the Managing mental health challenges faced by healthcare workers.
CO6	Create the The contemporary refugee crisis: an overview of mental health challenges.

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	1	1	3	1	2	2	2	1	1	2	1	2	1
CO2	1	1	1	1	2	1	1	1	1	1	1	1	1
CO3	1	1				1	1	1				2	1
CO4	1	1	1	1	2	1			2	2	1	1	1
CO5	1	2	1			1	1			3	1	1	1
CO6	1	1	1	3	1	1				2	1	1	1

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

19ECBDC08 - BEHAVIOURAL DISORDER AMONG CHILDREN

Introduction: This course introduces the basic principles of Mental Health Challenges related to Nursing. It is further, structured to Synthesize the knowledge of these principles in various Nursing situations

Course Objectives

1. Definition of Emotional Disturbance and Behavioral Disorders
2. Characteristics of Emotional Disturbance/Behavioral Disorders
3. Prevalence of Emotional Disturbance/Behavioral Disorders
4. Causes of Emotional Disturbance/Behavioral Disorders
5. Assessment And Diagnosis
6. Educational Placements and Services
7. Functional Behavioral Assessment
8. Applied Behavior Analysis and Positive Behavior Supports
9. Advocacy for Students with Emotional Disturbance and Behavioral Disorders
10. Collection of Current Event Articles and Issues in the Field

UNIT	BEHAVIOURAL DISORDER AMONG CHILDREN	Hrs.
1	Introduction: behavioral disorders, concept, Characteristics, behavioral problems in children	4(T)
2	Prevalence of emotional disturbance and behavioral disorders	5(T)
3	Assessment and diagnosis of behavioral disorders	5(T)
4	,Educational placement and services coping and social support.	4(T)
5	Functional behavioral assessment	4(T)
6	Societal influences: Applied behavioral analysisand positive behavioral support	4(T)
7	Advocacy for students with emotional disturbances and behavioral problems.	4(T)

Teaching- Learning Strategies

1. Lecture cum Discussion
2. Seminar
3. Class room Exercises
4. Demonstration
5. Assignments
6. Experiments

Assessment Techniques of each topic of the course

S. No	Topic	Assessment techniques
1.	Introduction	Short answer and objective type
2.	Behavioral disorders	Short answer and objective type
3.	Assessment and diagnosis Behavioral disorders	Short answer and objective type
4.	Positive behavioral support	Seminar
5.	Behavioral Disturbances	Presentations,
6.	Functional behavioral support	Short answer& presentation, Objective type,

Course Outcomes (Cos)

CO1	Remember the Safe, supportive and behavioral problems.
CO2	Understand the Physical education in primary schools: prevalence, Classroom teachers' perceptions of benefits.
CO3	Apply Know Elementary pre-service teacher preparation in the area of social, emotional, and behavioral problems.
CO4	Analyze the Effective Classroom Management: Teacher Preparation and Professional Development.
CO5	Evaluate the Effective treatment for mental disorders in children and adolescents.
CO6	Create the Improving for college students with disabilities: Ten strategies for instructors.

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	1	1	3	1	2	2	2	1	1	2	1	2	1
CO2	1			1	2	1	1	1			1	1	1
CO3	1	1	1			1	1	1			1	2	1
CO4	1	1	1	1	2				2	2	1	1	1
CO5	1	2	1	1	1	1	1	1	1	3	1		
CO6	1	1	1	3	1	1	1	1	1	2	1	1	1

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

19ECCPS09 - COMMUNITY PSYCHIATRIC

Introduction: This course introduces the basic principles of Community Psychiatry related to Nursing. It is further, structured to Synthesize the knowledge of these principles in various Nursing situations

Course Objectives

1. Identify the basic principles of Community Psychiatry.
2. Synthesize the knowledge of these principles in various Nursing situations.
3. Understand the principles of various fields of Community Psychiatry.
4. Be able to work with others demonstrating leadership and collaborative skills
5. Apply modern instrumentation theory and practice to Community Psychiatry problems
6. Recognize potential laboratory safety concerns and address them using appropriate techniques
7. Produce scientific reports formatted for peer-reviewed publication, using the primary literature
8. Evaluate data and design experiments to test hypotheses relevant to the practice of Community Psychiatry.

UNIT	Community Psychiatry	Hrs.
1	Introduction of Mental Health and Identification of Community Psychiatry	3(T)
2	Identification / Functional assessment of disability intellectual deficits and academic problems	3(T) 5(P)
3	Introduction of Basic Counseling skills	3(T)
4	Behavior analysis and behavioral intervention of far adults	3(T)
5	Psycho education and management regarding severe mental disorder inrectual and developmental disabilities	4(T) 4(P)
6	Identification and intervention for addictions	2(T) 3(P)

Teaching- Learning Strategies

1. Lecture cum Discussion
2. Seminar
3. Class room Exercises
4. Demonstration
5. Assignments
6. Experiments

Assessment Techniques of each topic of the course

S. No	Topic	Assessment techniques
1.	Introduction	Short answer and objective type
2.	Leadership	Short answer and objective type
3.	Potential Laboratory Safety	Short answer and objective type
4.	Primary Literature	Seminar
5.	Data and Design Experiments	Presentations,
6.	Ethical	Short answer& presentation, Objective type,

Course Outcomes (Cos)

CO1	Remember the structure, introduction to mental health and identification of Community Psychiatry
CO2	Understand assessment of disability intellectual deficits and academic problems
CO3	Apply or implement the various acquired knowledge in nursing profession
CO4	Analyze behavior analysis and behavior intervention
CO5	Evaluate the developmental disabilities
CO6	Create the concept of intervention for addictions

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	1	1	3	1	2	2	2	1	1	2	1	2	1
CO2	1			1	2	1	1	1	1	1	1	1	1
CO3	1	1	1				1	1	1			2	1
CO4	1	1	1	1	2	1	1	1	2	2	1	1	1
CO5	1	2	1				1	1	1	3			
CO6	1	1	1	3	1	1			1	2	1	1	1

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

19ECGC10 - GYNAECOLOGICAL CANCER

Introduction: This course introduces the basic principles of Mental Health Challenges related to Nursing. It is further, structured to Synthesize the knowledge of these principles in various Nursing situations

Course Objectives

1. To demonstrate the knowledge, skills and attitudes required to make an appropriate clinical assessment of a patient with a suspected or known gynaecological cancer.
2. Obtain an appropriate history perform an appropriate examination.
3. Communicate results of prior investigations. Instiate further investigations.
4. Communicate clinical plan to patient and relatives.

UNIT	GYNAECOLOGICAL CANCER	Hrs.
1	General Assessment of a Gynecological Oncology Patient Pre-, Peri- and Post-operative Care	3(T) 2(P)
2	General Surgical Skills In Gynecological Oncology Cancer of the Cervix	3(T) 2(P)
3	Ovarian Cancer Cancers of the Uterine corpus	3(T) 2(P)
4	Cancer of the Vulva Vaginal Cancer	3(T) 2(P)
5	Uro-oncological surgery Gastrointestinal/Colorectal surgery	3(T) 2(P)
6	Breast Cancer Surgery Radio-Diagnostics	3(T) 2(P)

Teaching- Learning Strategies

1. Lecture cum Discussion
2. Seminar
3. Class room Exercises
4. Demonstration
5. Assignments
6. Experiments

Assessment Techniques of each topic of the course

S. No	Topic	Assessment techniques
1.	Introduction	Short answer and objective type
2.	Pre-Operative Care	Short answer and objective type
3.	Post Operative Care	Short answer and objective type
4.	Surgical Skills	Seminar
5.	Uterine corpus	Presentations,
6.	Gastrointestinal	Short answer& presentation, Objective type,

Course Outcomes (Cos)

CO1	Remember the Provides quality maternal care in the diagnosis and management of antenatal, intra-natal and postnatal period of normal and abnormal pregnancy, capable to manage obstetrical and early neonatal emergencies.
CO2	Understand the Provides services for reproductive tract infections, including sexually transmitted diseases and screening for gynecological malignancies.
CO3	Apply Know Provides counseling and family welfare services including various methods of contraception and perform medical termination of pregnancy.
CO4	Analyze the Has knowledge for interpretation of various laboratory investigations and other diagnostic modalities in Obstetrics and Gynecology.
CO5	Evaluate the Trained in basic and advanced surgical skills for obstetrical, gynecological and allied surgeries.
CO6	Create the Trained in gynecological endocrinology and infertility, benign and malignant gynecological disorders.

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	1	1	3	1	2	2	2	1	1	2	1	2	1
CO2	1	1	1	1	2	1	1	1	1	1			1
CO3	1	1			1	1				1	1	2	1
CO4	1	1	1	1	2			1	2	2	1	1	1
CO5	1	2	1	1	1	1	1	1	1	3	1		
CO6	1	1	1	3	1					2	1	1	1

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

SYLLABUS M.SCNURSING

Medical Surgical Nursing

(Revised Regulations-2019)



Bharath Institute of Higher Education and Research
(Deemed To Be University)
Chennai

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH
TAMILNADU, CHENNAI



The motto of the BIHER is win the world by innovation. To the stars by hard work. The emblem of the Bharath Institute of Higher Education and Research is a symbolic expression of equality, knowledge, enlightenment, expression of peace and love and all this based as a source of all medicines

The main aim of establishing the institute was to provide high quality education to students from across the world in several relevant fields. The institute was developed to become a premier university for Teaching, Learning, Research, and Innovation. Students here are trained to create a better society with ethics and morals.

Bharath Institute of Higher Education & Research (TamilNadu) earlier known as **Bharath University**, commonly referred to as BIHER, commenced its establishment in the academic year of 1984. Bharath University has been given the status of 'Deemed to be University'. The institute is approved and recognized by the All-India Council for Technical Education (AICTE) and the University Grants Commission (UGC) respectively. It has also been accredited with grade 'A' by the National Assessment and Accreditation Council (NAAC).

PHILOSOPHY:

Bharath University of Higher Education and Research believes that:

Post Graduate programme is essential to prepare nurses to improve the quality of nursing education and practice in India. Post graduate programme in nursing builds upon and extends competence acquired at the graduate levels, emphasizes application of relevant theories into nursing practice, education, administration and development of research skills.

The programme prepares nurses for leadership position in nursing and health fields who can function as nurse specialists, consultants, educators, administrators and researchers in a wide variety of professional settings in meeting the National priorities and the changing needs of the society. This programme provides the basis for the post masteral programme in nursing. Further the programme encourages accountability and commitment to lifelong learning which fosters improvement of quality care.

AIM:

The aim of the postgraduate program in nursing is to prepare graduates to assume responsibilities as nurse specialists, consultants, educators, administrators in a wide variety of professional settings.

OBJECTIVES:

On Completion of the two years M. Sc Nursing programme, the graduate will be able to:

1. Utilize/apply the concepts, theories and principles of nursing science
2. Demonstrate advance competence in practice of nursing
3. Practice as a nurse specialist.
4. Demonstrate leadership qualities and function effectively as nurse educator and manager.
5. Demonstrate skill in conducting nursing research, interpreting and utilizing the findings from health related research.
6. Demonstrate the ability to plan and effect change in nursing practice and in the health care delivery system.
7. Establish collaborative relationship with members of other disciplines
8. Demonstrate interest in continued learning for personal and professional advancement.

VISION

Bharath Institute of Higher Education & Research (BIHER) envisions and constantly strives to provide an excellent academic and research ambience for students and members of the faculties to acquire professional competence along with human dignity, and spearhead the transformation of community through continuous discovery in science and technology.

MISSION

To develop as a Premier University for Teaching, Learning, Research and Innovation on par with leading global universities.

To impart education and training to students for creating a better society with ethics and morals.

To foster an interdisciplinary approach in education, research and innovation by supporting lifelong professional development, enriching knowledge banks through scientific research, promoting best practices and innovation, industry-driven and institute-oriented cooperation, globalization and international initiatives.

To develop as a multi-dimensional institution contributing immensely to the cause of societal advancement through spread of literacy, an ambience that provides the best of international exposures, provide health care, enrich rural development and most importantly impart value-based education.

To establish benchmark standards in professional practice in the fields of innovative and emerging areas in medicine, dentistry, nursing, physiotherapy, allied sciences, engineering, and management.

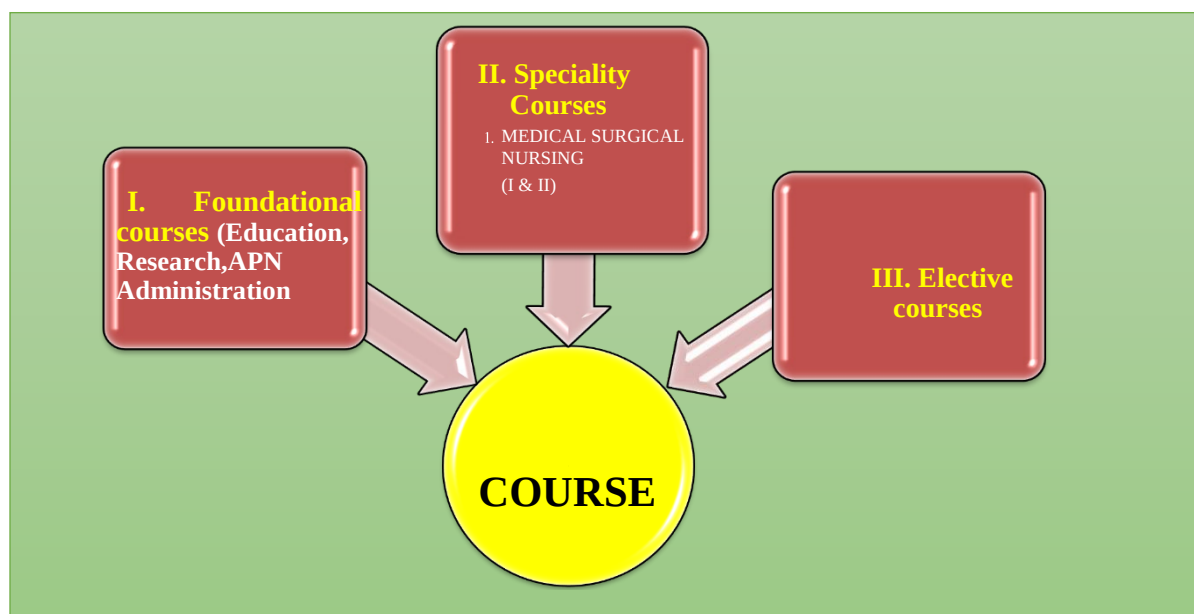
To launch new programmes with innovative curriculum design by provide multi-faceted exposure in various subjects.

To provide flexibility to students - options / add-ons to core subjects, develop Device Agnostic Technology to access online content Funding/incubation entrepreneurial ideas flipped class room – Integrated Courses & Need based learning.

Programme Educational Objects (PEO)

1. To become a competent nurse qualified to practice in a variety of settings in either public/ government or private health care
2. To demonstrate the ability to plan and effect change in nursing practice and in the health care delivery system.
3. To ordinate/manage care by being active participant of inter-professional team and member of a profession demonstrating self-responsibility and accountability for practice as well as to support the profession.
4. To develop leadership and managerial skills to meet the goal/ challenges of a health care organization or an Educational Institute
5. To become exemplary citizens by adhering to code of ethics and professional conduct at all times in fulfilling personal, social and professional obligations so as to respond to national aspirations

MSC NURSING PROGRAM-TWO YEARS
CHOICE BASED CREDIT SYSTEM (CBCS)
COMPETENCY BASED CURRICULUM



PROGRAMME OBJECTIVES

PO1	Provide holistic care recognizing individual patient's preferences, values and needs, that is compassionate, coordinated, age and culturally appropriate safe and effective care.
PO2	Demonstrate accountability for the delivery of standard-based nursing care that is consistent with moral, altruistic, legal, ethical, regulatory and humanistic principles.
PO3	Influence the behaviour of individuals and groups within their environment and facilitate establishment of shared goals
PO4	Demonstrate awareness and responsiveness to the context of healthcare system and ability to manage resources essential to provide optimal quality of care
PO5	Use technology and synthesize information and collaborate to make critical decisions that optimize patient outcomes
PO6	Interact effectively with patients, families and colleagues fostering mutual respect and shared decision making to enhance patient satisfaction and health outcomes
PO7	Function effectively within nursing and interdisciplinary teams, fostering open communication, mutual respect, shared decision making, team learning and development.
PO8	Minimize risk of harm to patients and providers through both system effectiveness and individual performance
PO9	Use data to monitor the outcomes of care processes and utilize improvement methods to design and test changes to continuously improve the quality and safety of healthcare system
PO10	Identify, evaluate and use the best current evidence coupled with clinical expertise and consideration of patient's preferences, experience and values to make practical decisions.
PO11	To become Nurse Researcher and demonstrate skill in conducting research and integrate Evidence based practice in health care.
PO12	To become Nurse Educator to understand the process to understand the process of curriculum development and the methodology of curriculum change, innovation and integration.

PROGRAMME SPECIFIC OUTCOME (PSOS)

PSO1	To become a Nurse Educator in Health Care settings and educational Institutions.
PSO2	To Become Nurse Specialist in the field of Medical Surgical Nursing.
PSO3	To develop leadership qualities and managerial skills to meet challenges/goals of an Institution or an health care organization.

(** PSO- 2 or 3)

MAPPING / ALIGNMENT OF PEO VS PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
PEO1		✓										✓	✓		✓
PEO2											✓				
PEO3		✓					✓	✓	✓	✓			✓	✓	
PEO4	✓		✓	✓											
PEO5		✓			✓	✓	✓		✓					✓	

MAPPING BETWEEN COURSE OUTCOMES (COS) AND PROGRAMME OUTCOMES (POS)

YR	Courses/ SOs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
I	THEORY												
	Nursing education												
	Advanced Nursing Practice							✓					
	Nursing Research & statistics												
	Clinical Speciality I (medical Surgical Nursing-I)						✓	✓					
	PRACTICAL				✓								
	Nursing education												
	Advance nursing practice				✓								
	Nursing Research and Statistics												
	*Clinical specialty-I (MSN)												
II	THEORY	✓											
	Nursing Management			✓	✓								
	Clinical Speciality II (Medical Surgical Nursing-II)	✓						✓					
	PRACTICAL												
	Nursing Management			✓	✓			✓					
	Nursing Research (Dissertation)	✓		✓				✓					
	Clinical Speciality II (MSN-II)												

**MAPPING BETWEEN PROGRAMME ELECTIVES (PEs) AND
PROGRAMME OUTCOMES (POs)**

Year	Elective Courses/ SOs	PO1	PO2	PO3	PO4	PO5	PO 6	PO7	PO8	PO9	PO10	PO 11	PO 12
I	CPR	✓											
	First aid nursing							✓					
	Operation theatre technique								✓				
	ABG analysis					✓							
	Central venous pressure monitoring							✓					
II	Interpretation of ECHO reading									✓			
	Assessment of cardiac monitoring				✓								
	Immunodiagnosics									✓			
	Quality assurance		✓										
	Organ transplantation												

M.Sc. Nursing Ist Year						
Course Code	Course Category	Course Title	L	T	P	C
THEORY						
19NE01	CC	Nursing education	3	0	3	7.5
19ANP02	CC	Advanced Nursing Practice	3	0	3	7.5
19NRS03	CC	Nursing Research & statistics	3	0	3	7.5
19OBGN04	SP	Clinical Speciality I (Medical Surgical Nursing-I)	3	0	3	7.5
PRACTICAL						
19NE01	CC	Nursing education	0	0	3	7.5
19ANP02	CC	Advance nursing practice	0	0	3	10
19NRS03	CC	Nursing Research and Statistics	0	0	3	5
19OBGN04	SP	*Clinical specialty–I (MedicalSurgicalNursing)	0	0	3	32.5

M.Sc. Nursing IInd Year						
Course Title			L	T	P	C
THEORY						
19NM05	CC	Nursing Management	3	0	3	7.5
19OBGN06	SC	Clinical Specility II (Medical SurgicalNursing)	3	0	3	7.5
PRACTICAL						
19NM05	CC	Nursing Management	0	0	3	7.5
19NRS03	CC	Nursing Research- Dissertation	0	0	3	15
19OBGN06	SC	*Clinicalspecialty–II (MedicalSurgicalNursing)	0	0	3	47.5

ELECTIVECOURSES

(StandardNational/InternationalModules can be used)

Course Code	Elective courses	L	T	P	C
I Year					
19ECCPR01	CPR	3	0	2	2
19ECFA02	First aid nursing	3	0	2	2
19ECOTT03	Operation theatre technique	3	0	0	2
19ECABGA04	ABG analysis	3	0	1	2
19ECCVPM05	Central venous pressure monitoring	3	0	1	2
I I Year					
19ECIECHOR06	Interpretation of ECHO reading	3	0	1	2
19ECACM07	Assessment of cardiac monitoring	3	0	1	2
19ECID08	Immunodiagnostics	3	0	1	2
19ECQA09	Quality assurance	3	0	2	2
19ECOT10	Organ transplantation	3	0	2	2
(4 Courses Mandatory) – 2 Credits = 40 Hours					

SUMMARY OF CURRICULUM STRUCTURE AND CREDIT & CONTACT HOUR DISTRIBUTION

S.No	Sub Area	Credit As per Year		No. of Credit
		I	II	
1	Core Courses	45	30	75
2	Speciality Courses	40	55	95
3	Elective Courses	5	4	8
	TOTAL			178

REGULATIONS

ELIGIBILITY CRITERIA/ADMISSION REQUIREMENTS:

- The candidate should be a Registered Nurse and Registered midwife or equivalent with any State Nursing Registration Council.
- The minimum education requirements shall be the passing of: B.Sc. Nursing / B.Sc. Hons. Nursing / Post Basic B.Sc. Nursing with minimum of 55% aggregate marks.
- The candidate should have undergone in B.Sc. Nursing / B.Sc. Hons. Nursing / Post Basic B.Sc. Nursing in an institution which is recognized by Indian Nursing Council.
- Minimum one year of work experience after Basic B.Sc. Nursing.
- Minimum one year of work experience prior or after Post Basic B.Sc. Nursing.
- Candidate shall be medical lyfit.
- 5% relaxation of marks for SC/ST candidates may be given.
- Preference will be given to candidate with clinical experience on the area of specialty choose.

ELIGIBILITY CERTIFICATE

- Candidate from Tamil Nadu as well as other state need to obtain as eligibility certificate from the Bharath University by remitting the prescribed fees along with the application form.
- Candidate from other states must produce the migration certificate at the time of admission.

REGISTRATION

The candidate admitted to the programme shall register with the Bharath University by remitting the prescribed fees along with the application form for registration duly filled in and forwarded to the Bharath University through the head of the Institution within the stipulated date.

SELECTION OF THE CANDIDATE:

- Candidate will be selected on the basis of merit and experience in Specialty areas by college selection committee member.
- After scrutiny of application eligible candidate will be called for an Interview/ entrance test before admission.
- Admission notification will intimate the date of commencement of course.

Programme of study

The M. Sc (Nursing) programme is of 2 years, non-semester study. During the programme, theory, clinical experience in the hospitals & community will be provided.

Duration

Duration of the course is 2 years for M.Sc. (N)

Available	52 weeks
Vacation	4 weeks
Examination	2 weeks
Gazetted holidays	3 weeks
Total weeks available	43 weeks
40 hours per week	1720 hours
Total hours for 2 years	3440 hours

Course of Instruction

I YEAR

	Theory (hrs)	Credit	Practical (hrs)	Credit

Nursing education	150	7.5	150	7.5
Advance nursing practice	150	7.5	200	10
Nursing Research and statistics	150	7.5	100	5
*Clinical specialty –I	150	7.5	650	32.5
TOTAL	600	30	1100	55

II YEAR

	Theory(hrs)	Credit	Practical (hrs)	Credit

Nursing Management	150	7.5	150	7.5
Nursing Research (Dissertation)			300	15
*Clinical Specialty-II	150	7.5	950	47.5
TOTAL	300	15	1400	70

Educational visit 2 weeks

Scheme of Examination

	Theory			Practical		
	Hours	Internal	External	Hours	Internal	External
1st year						
Nursing education	3	25	75	3	50	50
Advance nursing practice	3	25	75	3		
Nursing Research and Statistics	3	25**	75*	3		
Clinical speciality -I	3	25	75	3	100	100
Total		100	300		150	150
II nd Year						
Nursing Management	3	25	75	3		
Dissertation & Viva				3	100	100
Clinical Speciality-II	3	25	75	3	100	100
Total		50	150		200	200

Nursing research=50 and statistics=25

** Nursing research=15 and statistics=10

1. Minimum pass marks shall be 50 % in each of the Theory and practical papers separately.
2. A candidate must have minimum of 80% attendance (irrespective of the kind of absence) in theory and practical in each subject for appearing for examination.
3. A candidate must have 100% attendance in each of the practical areas before award of degree
4. A candidate has to pass in theory and practical exam separately in each of the paper.
5. If a candidate fails in either the theory or practical paper, he/she has to re-appear for both the papers (Theory and practical).
6. Maximum no. of attempts permitted for each paper is 3 including first attempt

7. The maximum period to complete the course successfully should not exceed 4 (four) years
8. A candidate failing in more than two subjects will not be promoted to the II year.
9. No candidate shall be admitted to the subsequent II-year examination unless the candidate has passed the I year examination.
10. Maximum number of candidates for all practical examination should not exceed 10 per day.
11. Provision of Supplementary examination should be made.
12. All practical examinations must be held in the respective clinical areas.
13. One internal and One external examiner (outside the University) should jointly conduct practical examination for each student
14. An examiner should be M.Sc (N) in concerned subject and have minimum of 3 (three) years post graduate teaching experience.
15. One internal and One external examiner (outside the University) should evaluate dissertation and jointly conduct viva-voce for each student
16. For Dissertation Internal examiner should be the guide and external examiner should be Nursing faculty / nursing expert in the same clinical speciality holding Ph.D./M.Phil/M.Sc. Nursing with a minimum of 3 years' experience in guiding the research projects for Post Graduate students of Nursing.

ATTENDANCE:

A Candidate pursuing M.Sc. Nursing Course shall study in the concern department of the institution for the entire period as a full-time student. No candidate is permitted to work in any laboratory/college/industry/pharmacy etc while studying post graduate course. No candidate should join any other course of study or appear for any other examination conducted by the university or any other university in India or abroad during the period of registration.

Each year shall be taken as a unit for the purpose of calculating attendance.

1. Every student shall attend symposium, seminars, conferences, journal review meetings and lectures during each year as prescribed by the department/college/university and not absent himself/herself without valid reasons.
2. Candidate who has put in a minimum of 80% attendance in the theory and practical assignments separately shall be permitted to appear for M.Sc. Nursing examination, provided she /he has completed the course and has shown satisfactory progress mentioned in the logbook
3. Any student who fails to complete the course in the manner stated above shall not be permitted to appear for the university examination

INTERNAL ASSESSMENT MARKS

There shall be continuous internal assessment. The marks for internal assessment set apart for the theory and practical in each subject there shall

be two tests and two assignments in each subject, the average of which shall be taken for the internal assessment. The principal shall notify the internal assessment marks in the notice board at the end of each term without fail under the intimation of the university. The principal of the college shall send the internal assessment marks of the students to the university

A student must secure at least 50% of the total marks fixed for internal assessment in a particular subject in order to be eligible to appear in university examination in all subject

Distribution of internal assessment marks for various subjects Firstyear

SI.NO	SUBJECT	INTERNALASSESSMENT MARKS
01	NURSING EDUCATION Theory Practical	25 50
02	ADVANCE NURSING PRACTICE	25
03	NURSING RESEARCH AND STATISTICS	25
04	CLINICAL SPECIALITY-I Theory Practical	25 100
	TOTAL	230

Secondyear

SI.NO	SUBJECT	INTERNAL ASSESSMENT MARKS
01	NURSING MANAGEMENT	25
02	DISSERTATION AND VIVA PRACTICAL	NIL
03	CLINICAL SPECIALITY-I Theory Practical	25 100
	TOTAL	140

MONITORING PROGRESS OF STUDIES:

Every candidate shall maintain a log book and record of her/his participation in the training programme conducted by the department such as journal reviews, seminars etc. The faculty members and peers will assess the presentation using relevant check list. The presentation made by the candidates should be mentioned in the logbook. The logbook shall be scrutinized and certified by the Tamilnadu Nursing Council and presented in the university practical examination

M.Sc. Nursing Log Book:

The university has prescribed a log book which is scrutinized by Tamilnadu Nursing Council.

DISSERTATION:

Each candidate pursuing M.Sc. Nursing course is required to carry out on selected research project under the guidance of a recognized Post Graduate Teacher. The results of such a work shall be submitted in the form of dissertation.

The dissertation is aimed to train a graduate student in research methods and techniques. It includes identification of problems, formulation of hypothesis, search and review of literature, getting acquainted with recent advances, designing of a research study, collection of data, critical analysis, interpretation of results and drawing conclusions. Every candidate shall submit to the Registrar of the university in the prescribed proforma. No change in the dissertation topic or guide shall be made without prior approval of the university.

The dissertation should be written under the following headings:

- I. Introduction
- II. Aims or objectives of study
- III. Review of literature
- IV. Materials and methods
- V. Results
- VI. Discussion
- VII. Conclusion
- VIII. Summary
- IX. References
- X. Tables
- XI. Annexures

The written text of dissertation shall not be less than 10 pages and shall not exceed 100 pages excluding references, tables, questionnaires, and other annexure. It should be neatly typed in double line spacing on one side of paper (A4 Size, 8.27" x 11.69") and bound properly. Spiral binding should not be done. A declaration by the candidate for having done the work should also be included and certified by the guide, head of the department and head of the institution. Six copies of dissertation shall be submitted to the registrar through proper channel along with soft copy. Three months before the final examination, it shall be assessed by three examiners, one internal and two externals, appointed by the university. Acceptance of the dissertation is a pre-requisite for a candidate to appear for final examination.

Regulations for examination:

The M.Sc. nursing course shall have two examinations, one at the end of the first year and second at the end of the second year

Eligibility for appearing for the examination:

75% of the attendance for theory and practical. However, 100% of attendance for practical before the award of degree.

M.Sc. Nursing, I Year Examination:

It consists of theory(written) papers and practical examinations.

Theory – (Written) Examination:

The following 4 papers are the theory papers for candidates

1. Nursing education
2. Advance nursing practice
3. Nursing research and statistics
4. Clinical specialty

Criteria to pass:

To be declared as pass in the M.Sc. I year a candidate has to pass in all the prescribed subjects for the I year.

Practical examination

There shall be practical examination in nursing education and nursing specialty chosen by the candidate

01. Common Subject:

A candidate shall secure in each of the common subjects not less than 50% marks prescribed for university examination.

02. Nursing Specialty Subject:

A candidate shall secure not less than 50% marks prescribed for university examination in theory and practical examination exclusive of internal assessment marks.

Carry over

The candidate who has failed in more than two subjects will not be promoted to the II year

M.Sc. Nursing I Year Examination:

The university examination consists of dissertation, written papers (theory), practical examination and viva-voce examination, including dissertation.

Dissertation:

Only candidates whose dissertation has been accepted shall be eligible to appear for M.Sc. II year examination.

Theory – (Written) Examination:

The following 2 papers are the theory papers for candidates

1. Nursing management
2. Clinical speciality

Practical examination

There shall be practical examination in nursing speciality chosen by the candidate

Criteria to pass:

To be declared as pass in the M.Sc. II year a candidate has to pass in all the prescribed subjects for the II year.

01. Common Subject:

A candidate shall secure in each of the common subjects not less than 50% marks prescribed for university examination.

02. Nursing Specialty Subject:

A candidate shall secure not less than 50% marks prescribed for university examination in theory and practical examination exclusive of internal assessment marks.

Classification of results:

- 50% pass in each of the theory and practical separately.
- 50-59% Second division
- 60-74% First division
- 75% and above is distinction

For declaring the rank aggregate of 2 years marks to be considered

If the candidate fails in either practical or theory paper, he/she has to re-appear for both the papers (theory and practical)

Maximum no. of attempts per subject is three (3) inclusive of first attempt. The maximum period to complete the course successfully should not exceed 4 years

Candidate who fails in any subject, shall be permitted to continue the studies into the second year. However the candidate shall not be allowed to appear for the Second year examination till such time that he/she passes all subjects of the first year M.Sc nursing examination

Eligibility for degree:

A candidate shall have passed in all the subjects of M.Sc. I & II Year to be eligible for the award of degree

Practical

- 4 hours of practical examination per student.
- Maximum number of 10 students per day per specialty.
- The examination should be held in clinical area only for clinical specialties
- One internal and external should jointly conduct practical examination
- Examiner – Nursing faculty teaching respective specialty area in M.Sc nursing programme with minimum 3 years' experience after M.Sc nursing.

Guidelines for Dissertation Tentative

Schedule for dissertation

S. No.	Activities	Scheduled Time
1.	Submission of the research proposal	End of 9 th month of 1 st year
2.	Submission of dissertation – Final	End of 9 th month of II nd Year

Note: - Administrative approval and ethical clearance should be obtained

Research Guides

a) Qualification of Guide

Main guide: Nursing faculty / nursing expert in the same clinical speciality holding Ph.D./M.Phil/M.Sc. Nursing with a minimum of 3 years' experience in teaching in the Post Graduate Programme in Nursing.

Co-Guide: A Co-Guide is a nursing faculty/expert in the field of study (may be from outside the college but should be within the city.)

b) Guide – Students Ratio

Maximum of 1:4 (including as co-guide)

c) Research Committee

There should be a research committee in each college comprising of minimum 5 members chaired by the Principal, College of Nursing.

d) Change of guide:

In the event of a register guide leaving the college for any reasons or in the event of death of guide, guide may be changed with prior permission from the university

Evaluation of Dissertation:

The dissertation shall be evaluated by:

1. Professor of Nursing Research common to all the branches of speciality.
2. Professor in clinical speciality.
3. An external examiner which experience in Nursing Research who will be common to all the branches of speciality
4. The number of pages of dissertations should not exceed 60 pages
5. The viva-voce examinations should be a minimum 30 minutes per student.

Resubmission of theses:

- Resubmission of theses with corrections can be done within 6 months
- Resubmission of theses with total re-doing can be done within 2 years.

Conduct and Discipline:

1. Students are expected to follow ethical values in personal and professional life and maintain the professional standards in college and hospital.
2. Students should make every effort to care of the college, hostel and hospital property.
3. Students are expected to abide by the rules and regulations laid by the College, Hospital and Hostel.

Eligibility for Examiners

Internal examiner:

A person to be eligible to be appointed as internal examiner shall be recognized PG teacher of BIHER in the concerned branch of speciality and shall have at least 3 years of PG Teaching experience M.Sc. Nursing students.

External examiner:

A person to be eligible to be appointed as external examiner shall have the qualification prescribed above for a guide and shall have at least 3 years of PG Teaching experience for M.Sc. Nursing students.

Number of examiners:

There shall be two examiners, one internal and one external

(19NE01) NURSING

EDUCATION

PLACEMENT-IYEAR

Hours of instruction
Theory:150hours Credit:7.5
Practical :150 hours Credit: 7.5

This course is designed to assist students to develop a broad understanding of Fundamental Principles, concepts, trends and issues related to education and nursing education. Further, it would provide opportunity to students to understand, appreciate and acquire skills in teaching and evaluation, curriculum development, implementation, maintenance of standards and accreditation of various nursing educational programs.

Objectives

At the end of the course, students will be able to:

1. Explain the aims of education, philosophies, trends in education and health: its impact on nursing education.
2. Describe the teaching learning process.
3. Prepare and utilize various instructional media and methods in teaching learning process.
4. Demonstrate competency in teaching, using various instructional strategies.
5. Critically analyze the existing nursing educational programs, their problems, issues and future trends.
6. Describe the process of curriculum development, and the need and methodology of curriculum change, innovation and integration.
7. Plan and conduct continuing nursing education programs.
8. Critically analyze the existing teacher preparation programs in nursing.
9. Demonstrate skill in guidance and counseling.
10. Describe the problems and issues related to administration of nursing curriculum including selection and organization of clinical experience.
11. Explain the development of standards and accreditation process in nursing education programs.
12. Identify research priorities in nursing education.
13. Discuss various models of collaboration in nursing education and services.
14. Explain the concept, principles, steps, tools and techniques of evaluation
15. Construct, administer and evaluate various tools for assessment of,

knowledge, skill, and attitude.

Course Content

Units	Hours		Course Content
	Theory	Practical	
I	10		Introduction: ❑ Education: Definition, aims, concepts, philosophies & their education implications, ❑ Impact of Social, economic, political & technological changes on education: • Professional education • Current trends and issues in education • Educational reforms and National Educational policy, various educational commissions-reports • Trends in development of nursing education in India
II	20	30	Teaching – Learning Process ❑ Concepts of teaching and learning: Definition, theories of teaching and learning, relationship between teaching and learning. ❑ Educational aims and objectives; types, domains, levels, elements and writing of educational objectives ❑ Competency based education (CBE) and outcome-based education (OBE) ❑ Instructional design: Planning and designing the lesson, writing lesson plan: meaning, its need and importance, formats. ❑ Instruction strategies – Lecture, discussion, demonstration, simulation, laboratory, seminar, panel, symposium, problem solving, problem-based learning (PBL), workshop, project, role-play (socio-drama), clinical teaching methods, programmed instruction, self-directed learning (SDL), micro teaching, computer assisted instruction (CAI), computer assisted learning (CAL)
III	10	10	Instructional media and methods ❑ Key concepts in the selection and use of media in education ❑ Developing learning resource material using different media ❑ Instructional aids – types, uses, selection, preparation, utilization. ❑ Teacher's role in procuring and managing instructional Aids – Project and non-projected aids, multimedia, video-tele conferencing etc

IV	10		Measurement and evaluation: ❑ Concept and nature of measurement and evaluation, meaning, process, purposes, problems in evaluation and measurement. ❑ Principles of assessment, formative and summative assessment- internal assessment external examination, advantages and disadvantages. ❑ Criterion and norm referenced evaluation,
V	12	10	Standardized and non-standardized tests: ❑ Meaning, characteristics, objectivity, validity, reliability, usability, norms, construction of tests- • Essay, short answer questions and multiple-choice questions. • Rating scales, checklist, OSCE/OSPE (Objective structured clinical/practical examination) • Differential scales, and summated scales, sociometry, anecdotal record, attitude scale, critical incident technique ❑ Question bank-preparation, validation, moderation by panel, utilization ❑ Developing a system for maintaining confidentiality
VI	8	5	Administration, Scoring and Reporting ❑ Administering a test; scoring, grading versus marks ❑ Objective tests, scoring essay test, methods of scoring, Item analysis.
VII	12	6	Standardized Tools ❑ Tests of intelligence aptitude, interest, personality, achievement, socio-economic status scale, tests for special mental and physical abilities and disabilities.
VIII	5	6	Nursing Educational programs ❑ Perspectives of nursing education: Global and national. ❑ Patterns of nursing education and training programmes in India. Non-university and University programs: ANM, GNM, Basic B.Sc. Nursing, Post Certificate B.Sc. Nursing, M.Sc(N) programs, M.Phil and Ph.D) in Nursing, post basic diploma programs, nurse practitioner

			programs.
IX	12	25	Continuing Education in Nursing ❑ Concepts – Definition, importance, need scope, principles of adult learning, assessments of learning needs, priorities, resources. ❑ Program planning, implementation and evaluation of continuing education programs. ❑ Research in continuing education. ❑ Distance education in nursing.
X	10	10	Curriculum Development ❑ Definition, curriculum determinants, process and steps of curriculum development, Curriculum models, Types and framework. ❑ Formulation of philosophy, objectives, selection and organization of learning experiences; master plan, course plan, unit plan. ❑ Evaluation strategies, process of curriculum change, role of students, faculty, administrators, statutory bodies and other stakeholders. ❑ Equivalency of courses: Transcripts, credit system.
XI	8	4	Teacher preparation ❑ Teacher – roles & responsibilities, functions, characteristics, competencies, qualities, ❑ Preparation of professional teacher ❑ Organizing professional aspects of teacher preparation programs ❑ Evaluation: self and peer ❑ Critical analysis of various programs of teacher education in India.
XII	10	5	Guidance and counseling ❑ Concept, principles, need, difference between guidance and counseling, trends and issues. ❑ Guidance and counseling services: diagnostic and remedial. ❑ Coordination and organization of services. ❑ Techniques of counseling: Interview, casework, characteristics of counselor, problems in counseling. ❑ Professional preparation and training for counseling.

XIII	15	10	Administration of Nursing Curriculum ❑ Role of curriculum coordinator – planning, implementation and evaluation. ❑ Evaluation of educational programs in nursing-course and program. ❑ Factors influencing faculty staff relationship and techniques of working together. ❑ Concept of faculty supervisor (dual) position. ❑ Curriculum research in nursing. ❑ Different models of collaboration between education and service
XIV	10		Management of nursing educational institutions ❑ Planning, organizing, staffing, budgeting, recruitment, discipline, public relation, performance appraisal, welfare services, library services, hostel,
XV	5	5	❑ Development and maintenance of standards and accreditation in nursing education programs. ❑ Role of Indian Nursing Council, State Registration Nursing Councils, Boards and University. ❑ Role of Professional associations and unions.

Course Outcomes (Cos)

CO1	Remember is remembering, recognizing and recalling important concepts. It includes factual information with right and wrong answers.
CO2	Understand is the thought processes of interpreting, exemplifying, classifying, summarizing, inferring, comparing, and explaining of interpreting, translating from one medium to another and describing in one's own words.
CO3	Apply the various aspects of curriculum development,
CO4	Analyze the standardized tools
CO5	Develop curriculum for various nursing programmes
CO6	Create the new teaching learning strategies

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	2	1		2			2	2			2	1	2
CO2						1					1	1	2		2
CO3				1			2			1					2
CO4	2		3			1			1		1		1	2	2
CO5	1		1		3		1	2		2		2			
CO6		2	2	2	2		3	2		2		2	2	2	2

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

Activities:

- Framing philosophy, aims and objectives.
- Lesson Planning.
- Microteaching-2.
- Conduct practice teachings using different teaching strategies -10 (like lecture cum discussion, demonstration- lab method, field trips, seminars, project, role play, panel discussion, clinical method etc)
- Preparation and utilization of instructional Aids using different media.
- Develop course plans, unit plans, rotation plans.
- a continuing education workshops.
- Annotated bibliography.
- Critical evaluation of any nursing education program offered by a selected institution.
- Planning and Organizing field visits
- Educational visits.
- Field visits (INC/SNRC) to get familiar with recognition/registration process.
- Construct, administer and evaluate tools (objective & essay type test, observation checklist, rating scale etc.)

- Observe and practice application of various non-standardized tests (intelligence, Aptitude, Personality, Sociometry, physical & mental disability tests.)

Methods of Teaching

- Lecture cum discussion
- Demonstration/ Return demonstration
- Seminar /Presentations
- Projectwork
- Field visits
- Workshop

Methods of evaluation

- Tests
- Presentation
- Projectwork
- Written assignments

Internal Assessment

Techniques	Weightage
Test- (2 tests)	50
Assignment	25
Seminar/presentation	25

	100

Practical – Internal assessment	
Learning resource material	25
Practice Teaching	50
Conduct Workshop /Short Term Course	25
Practical – external assessment	
Practice teaching- 1-	50
Preparation/use of learning resource material-1	25
Construction of tests/rotation plan.	25

(19ANP02) ADVANCE NURSING PRACTICE

PLACEMENT-IYEAR

Hours of instruction

Theory:150hours

Credit:7.5

Practical:200hours

Credit:10

Course Description

The course is designed to develop an understanding of concepts and constructs of theoretical basis of advance nursing practice and critically analyze different theories of nursing and other disciplines.

Objectives:

At the end of the course the students will be able to:

1. Appreciate and analyze the development of nursing as a profession.
2. Describe ethical, legal, political and economic aspects of health care delivery and nursing practice.
3. Explain bio- psycho- social dynamics of health, life style and health care delivery system.
4. Discuss concepts, principles, theories, models, approaches relevant to nursing and their application.
5. Describe scope of nursing practice.
6. Provide holistic and competent nursing care following nursing process approach.
7. Identify latest trends in nursing and the basis of advance nursing practice.
8. Perform extended and expanded role of nurse.
9. Describe alternative modalities of nursing care.
10. Describe the concept of quality control in nursing.
11. Identify the scope of nursing research.
12. Use computer in patient care delivery system and nursing practice.
13. Appreciate importance of self-development and professional advancement.

Unit	Hours	Content
I	10	Nursing as a Profession ❑ History of development of nursing profession, characteristics, criteria of the profession, perspective of nursing profession-national, global ❑ Code of ethics (INC), code of professional conduct (INC), autonomy and accountability, assertiveness, visibility of nurses, legal considerations, ❑ Role of regulatory bodies ❑ Professional organizations and unions-self-defense, individual and collective bargaining ❑ Educational preparations, continuing education, career opportunities, professional advancement & role and scope of nursing education. ❑ Role of research, leadership and management. ❑ Quality assurance in nursing (INC). ❑ Futuristic nursing.
II	5	Health care delivery ❑ Health care environment, economics, constraints, planning process, policies, political process vis a vis nursing profession. ❑ Health care delivery system- national, state, district and local level. ❑ Major stakeholders in the health care system-Government, non-govt, Industry and other professionals. ❑ Patterns of nursing care delivery in India. ❑ Health care delivery concerns, national health and family welfare programs, inter-sectoral coordination, role of non-governmental agencies. ❑ Information, education and communication (IEC). ❑ Tele-medicine.
III	10	Genetics ❑ Review of cellular division, mutation and law of inheritance, human genome project, The Genomic era. ❑ Basic concepts of Genes, Chromosomes & DNA. ❑ Approaches to common genetic disorders. ❑ Genetic testing – basis of genetic diagnosis, Pre symptomatic and predisposition testing, Prenatal diagnosis & screening, Ethical, legal & psychosocial issues in genetic testing. ❑ Genetic counseling. ❑ Practical application of genetics in nursing.

IV	10	Epidemiology ❑ Scope, epidemiological approach and methods, ❑ Morbidity, mortality, ❑ Concepts of causation of diseases and their screening, ❑ Application of epidemiology in health care delivery, Health surveillance and health informatics ❑ Role of nurse
V	20	Bio-Psycho social pathology ❑ Pathophysiology and Psychodynamics of disease causation ❑ Life processes, homeostatic mechanism, biological and psycho-social dynamics in causation of disease, lifestyle ❑ Common problems: Oxygen insufficiency, fluid and electrolyte imbalance, nutritional problems, hemorrhage and shock, altered body temperature, unconsciousness, sleep pattern and its disturbances, pain, sensory deprivation. ❑ Treatment aspects: pharmacological and pre- post-operative care aspects, ❑ Cardio pulmonary resuscitation. ❑ End of life Care ❑ Infection prevention (including HIV) and standard safety measures, bio-medical waste management. ❑ Role of nurse- Evidence based nursing practice; Best practices ❑ Innovations in nursing
VI	20	Philosophy and Theories of Nursing ❑ Values, Conceptual models, approaches. ❑ Nursing theories: Nightingale's, Henderson's, Roger's, Peplau's, Abdella's, Lewine's, Orem's, Johnson's, King's, Neuman's, Roy's, Watson's, etc and their applications, ❑ Health belief models, communication and management, etc ❑ Concept of Self health. ❑ Evidence based practice model.
VIII	10	Nursing process approach ❑ Health Assessment- illness status of patients/clients (Individuals, family, community), Identification of health-illness problems, health behaviors, signs and symptoms of clients. ❑ Methods of collection, analysis and utilization of data relevant to nursing process. ❑ Formulation of nursing care plans, health goals, implementation, modification and evaluation of care.

IX	30	Psychological aspects and Human relations ❑ Human behavior, Life processes & growth and development, personality development, defense mechanisms, ❑ Communication, interpersonal relationships, individual and group, group dynamics, and organizational behavior, ❑ Basic human needs, Growth and development, (Conception through preschool, School age through adolescence, Young & middle adult, and Older adult) ❑ Sexuality and sexual health. ❑ Stress and adaptation, crisis and its intervention, ❑ Coping with loss, death and grieving, ❑ Principles and techniques of Counseling.
X	10	Nursing practice ❑ Framework, scope and trends. ❑ Alternative modalities of care, alternative systems of health and complementary therapies. ❑ Extended and expanded role of the nurse, in promotive, preventive, curative and restorative health care delivery system in community ❑ immunity and institutions. ❑ Health promotion and primary healthcare. ❑ Independent practice issues, - Independent nurse-midwifery practitioner. ❑ Collaboration issues and models-within and outside nursing. ❑ Models of Prevention, ❑ Family nursing, Home nursing, ❑ Gender sensitive issues and women empowerment. ❑ Disaster nursing. Geriatric considerations in nursing. ❑ Evidence based nursing practice- Best practices ❑ Trans-cultural nursing.
XI	25	Computer applications for patient care delivery system and nursing practice ❑ Use of computers in teaching, learning, research and nursing practice. ❑ Windows, MS Office: Word, Excel, PowerPoint, ❑ Internet, literature research, ❑ Statistical packages, ❑ Hospital management information system: software's.

Course outcomes (Cos)

CO1	Appreciate and analyze the development of nursing as a profession
CO2	Describe ethical, legal, political and economic aspects of health care delivery and nursing practice.
CO3	Explain bio-psycho-social dynamics of health, life style and health care delivery system
CO4	Discuss concepts, principles, theories, models, approaches relevant to nursing and their application
CO5	Describe scope of nursing practice.
CO6	Provide holistic and competent nursing care following nursing process approach

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1		2	2	2	3	3		2	2	2	2		2		2
CO2		2	2	1				1		2			2		2
CO3	1				2	2				2	1		2		2
CO4	2						2			2	1		2	2	2
CO5	2	2	2	1	2	2						2			2
CO6	2	2	2	1	2				2	2	2	2			2

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

Practical

Clinical posting in the following areas:

Specialty area- in-patient unit	- 2 weeks
Community health center/PHC	- 2 weeks
Emergency/ICU	- 2 weeks

Activities

- Prepare Case studies with nursing process approach and theoretical basis
- Presentation of comparative picture of theories
- Family case- work using model of prevention
- Annotated bibliography
- Report of field visits (5)

Methods of Teaching

- Lecture cum discussion
- Seminar
- Panel discussion
- Debate
- Case Presentations
- Exposure to scientific conferences
- Field visits

Methods of evaluation:

- Tests
- Presentation
- Seminar
- Written assignments

Advance nursing Procedures

Definition, Indication and nursing implications; CPR, TPN, Hemodynamic monitoring, Endotracheal intubation, Tracheostoma, mechanical ventilation, Pacemaker, Hemodialysis, Peritoneal dialysis, LP, BT Pleural and abdominal paracentesis OT techniques, Health assessment, Triage, Pulse oximetry.

Internal Assessment

Techniques	Weightage
Test- (2 tests)	50
Assignment	25
Seminar/presentation	25

	100

(19NRS03)- NURSING RESEARCH AND STATISTICS

PLACEMENT-IYEAR

**Theory:150hours
Practical:100hours**

**Credit:7.5
Credit:5**

PART – A- NURSING RESEARCH

**Theory:100hours
Practical:50hours**

**Credit:5
Credit:2.5**

Course Description

The course is designed to assist the students to acquire an understanding of the research methodology and statistical methods as a basis for identifying research problem, planning and implementing a research plan. It will further enable the students to evaluate research studies and utilize research findings to improve quality of nursing practice, education and management

General Objectives:

At the end of the course, the students will be able to:

1. Define basic research terms and concepts.
2. Review literature utilizing various sources
3. Describe research methodology
4. Develop a research proposal.
5. Conduct a research study.
6. Communicate research findings
7. Utilize research findings
8. Critically evaluate nursing research studies.
9. Write scientific paper for publication.

Content Outline

Unit	Hours		Course Content
	Theory	Practical	
I	10		Introduction: ❑ Methods of acquiring knowledge – problem solving and scientific method. ❑ Research – Definition, characteristics, purposes, kinds of research ❑ Historical Evolution of research in nursing ❑ Basic research terms ❑ Scope of nursing research: areas, problems in nursing, health and social research ❑ Concept of evidence-based practice ❑ Ethics in research ❑ Overview of Research process
II	5	5	Review of Literature ❑ Importance, purposes, sources, criteria for selection of resources and steps in reviewing literature.
III	12		Research Approaches and designs ❑ Type: Quantitative and Qualitative ❑ Historical, survey and experimental – Characteristics, types advantages and disadvantages ❑ Qualitative: Phenomenology, grounded theory, ethnography
IV	10	5	Research problem: ❑ Identification of research problem ❑ Formulation of problem statement and research objectives ❑ Definition of terms ❑ Assumptions and delimitations ❑ Identification of variables ❑ Hypothesis – definition, formulation and types.
V	5	5	Developing theoretical/conceptual framework. ❑ Theories: Nature, characteristics, Purpose and uses ❑ Using, testing and developing conceptual framework, models and theories.

VI	6		Sampling ❑ Population and sample ❑ Factors influencing sampling ❑ Sampling techniques ❑ Sample size ❑ Probability and sampling error ❑ Problems of sampling
VII	20	10	Tools and methods of Data collection: ❑ Concepts of data collection ❑ Data sources, methods/techniques quantitative and qualitative. ❑ Tools for data collection – types, characteristics and their development ❑ Validity and reliability of tools ❑ Procedure for data collection
VIII	5		Implementing research plan ❑ Pilot Study, review research plan (design)., planning for data collection, administration of tool/interventions, collection of data
IX	10	10	Analysis and interpretation of data ❑ Plan for data analysis: quantitative and qualitative ❑ Preparing data for computer analysis and presentation. ❑ Statistical analysis ❑ Interpretation of data ❑ Conclusion and generalizations ❑ Summary and discussion
X	10		Reporting and utilizing research findings: ❑ Communication of research results; oral and written ❑ Writing research report purposes, methods and style- Vancouver, American Psychological Association (APA), Campbell etc ❑ Writing scientific articles for publication: purposes & style
XI	3	8	Critical analysis of research reports and articles
XII	4	7	Developing and presenting a research proposal

Course Outcomes(Cos)

CO1	Remember the research process and significance of statistics
CO2	Understand the research problem and objectives and sampling methods
CO3	Apply or implement the nursing interventions to collect the data
CO4	Analyse and interpret the data using descriptive and inferential statistics
CO5	Develop and evaluate research proposal and prepare the data tabulation.
CO6	Create and conduct a group/individual research project and communicate the research findings.

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	2	2	1		2			2	2	2		2	1	2
CO2		2	2			1					2	1	2		2
CO3		3		1			2			1	2		2		2
CO4	2					1			1		1		2	2	2
CO5	1	2	2	2	2		2	2		2		2			
CO6		2	2	2	2		2	2		2		2	2	2	2

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

Activities:

- Annotated Bibliography of research reports and articles.
- Review of literature of selected topic and reporting
- Formulation of problem statement, objective and hypothesis
- Developing theoretical/conceptual framework.
- Preparation of a sample research tool

- Analysis and interpretation of given data
- Developing and presenting research proposal
- Journal club presentation
- Critical evaluation of selected research studies
- Writing a scientific paper

Method of Teaching

- Lecture-cum-discussion
- Seminar/Presentations
- Project
- Class room exercises
- Journal club

Methods of Evaluation

- Quiz, Tests(Term)
- Assignments/Term paper
- Presentations
- Project work

Internal Assessment

Techniques	Weightage (15marks)
Term Test (2 tests)	40%
Assignment	20%
Presentation	20%
Project work	20%
Total	100%

PART – B- STATISTICS

Theory :50 hours Credit:2.5

Practical :50 hours Credit:2.5

Course Description

At the end of the course, the students will be able to develop an understanding of the statistical methods and apply them in conducting research studies in nursing.

General Objectives

At the end of the course the students will be able to:

1. Explain the basic concepts related to statistics
2. Describe the scope of statistics in health and nursing
3. Organize, tabulate and present data meaningfully.
4. Use descriptive and inferential statistics to predict results.
5. Draw conclusions of the study and predict statistical significance of the results.
6. Describe vital health statistics and their use in health-related research.
7. Use statistical packages for data analysis

Unit	Hours		Course Content
	Theory	Practical	
I	7	4	Introduction: □ Concepts, types, significance and scope of statistics, meaning of data, □ sample, parameter □ type and levels of data and their measurement □ Organization and presentation of data – Tabulation of data; □ Frequency distribution □ Graphical and tabular presentations.
II	4	4	Measures of central tendency: □ Mean, Median, Mode
III	4	5	Measures of variability; □ Range, Percentiles, average deviation, quartile

			deviation, standard deviation
IV	3	2	Normal Distribution: ☐ Probability, characteristics and application of normal probability curve; sampling error.
V	6	8	Measures of relationship: ☐ Correlation – need and meaning ☐ Rank order correlation; ☐ Scatter diagram method ☐ Product moment correlation ☐ Simple linear regression analysis and prediction.
VI	5	2	Designs and meaning: ☐ Experimental designs ☐ Comparison in pairs, randomized block design, Latin squares.
VII	8	10	Significance of Statistic and Significance of difference between two Statistics (Testing hypothesis) ☐ Non parametric test – Chi-square test, Sign, median test, Mann Whitney test. ☐ Parametric test – ‘t’ test, ANOVA, MANOVA, ANCOVA
VIII	5	5	Use of statistical methods in psychology and education: ☐ Scaling – Z Score, Z Scaling ☐ Standard Score and T Score ☐ Reliability of test Scores: test-retest method, parallel forms, split half method.
IX	4	2	Application of statistics in health: ☐ Ratios, Rates, Trends ☐ Vital health statistics – Birth and death rates. ☐ Measures related to fertility, morbidity and mortality
X	4	8	Use of Computers for data analysis ☐ Use of statistical package.

Activities

- Exercises on organization and tabulation of data,
- Graphical and tabular presentation of data
- Calculation of descriptive and inferential statistics (chi square, t-test, correlation)
- Practice in using statistical package
- Computing vital health statistics

Methods of Teaching:

- Lecture-cum-discussion
- Demonstration – on data organization, tabulation, calculation of statistics, use of statistical package, Classroom exercises, organization and tabulation of data,
- Computing Descriptive and inferential statistics; vital and health statistics and use of computer for data entry and analysis using statistical package.

Methods of Evaluation

- Test, Classroom statistical exercises.

Internal Assessment***Techniques******Weightage 10 marks***

Test – (2 tests)

100%

(19MSN04)-CLINICAL SPECIALITY-I MEDICAL SURGICAL NURSING

PLACEMENT-IYEAR

**Theory: 150hours
Practical:650hours**

**Credit:7.5
Credit:32.5**

Course Description

This course is designed to assist students in developing expertise and in- depth understanding in the field of Medical Surgical Nursing . It will help students to appreciate the client as a holistic individual and develop skill to function as an independent nurse practitioner. It will further enable the student to function as educator, manager, and researcher in the field of medical surgical nursing

Objectives

At the end of the course the students will be able to:

1. Appreciate the trends & issues in the field of Medical – Surgical Nursing as a speciality.
2. Apply concepts & theories related to health promotion.
3. Appreciate the client as a holistic individual.
4. Perform physical, psychosocial assessment of Medical – Surgical patients.
5. Apply Nursing process in providing care to patients.
6. Integrate the concept of family centered nursing care with associated disorder such as genetic, congenital and long-term illness.
7. Recognize and manage emergencies with Medical- Surgical patients.
8. Describe various recent technologies & treatment modalities in the management of critically ill patients.
9. Appreciate the legal & ethical issues relevant to Medical – Surgical Nursing.
10. Prepare a design for layout and management of Medical – Surgical Units.
11. Appreciate the role of alternative systems of Medicine in care of patients.
12. Incorporate evidence based Nursing practice and identify the areas of research in the field of Medical – Surgical Nursing.
13. Recognize the role of Nurse practitioner as a member of the Medical – Surgical health team.
14. Teach Medical – Surgical Nursing to undergraduate nursing students & in-service nurses.

COURSE CONTENT:

Unit	Hours	Content
I	5	Introduction: □ Historical development of Medical- Surgical Nursing in India. □ Current status of health and disease burden in India. □ Current concept of health. □ Trends & issues in Medical – Surgical Nursing. □ Ethical & cultural issues in Medical – Surgical Nursing. □ Rights of patients. □ National health policy, special laws & ordinances relating to older people. □ National goals. □ Five year plans. □ National health programs related to adult health.
II	20	Health Assessment of patients □ History taking. □ Physical examination of various systems. □ Nutritional assessment. □ Related investigations and diagnostic assessment.
III	5	Care in hospital settings: □ Ambulatory care. □ Acute and Critical care. □ Long term care. □ Home Health Care. □ Characteristics, care models, practice settings, interdisciplinary team. □ Hospitalization- effects of hospitalization on the patient & family. □ Stressors & reactions related to disease process. □ Nursing care using Nursing process approach.
IV	10	Management of patients with disorders of Gastro intestinal tract □ Review of anatomy and physiology. □ Common Disorders- etiology, Patho physiology, Clinical manifestations, complications, prognosis. □ Health assessment- History taking, physical examination, investigation and diagnostic assessment. □ Treatment modalities and trends. □ Nursing management. □ Related research studies. □ Evidence based nursing practice. □ Rehabilitation and follow-up.

Unit	Hours	Content
V	10	Management of patients with disorders of nervous system □ Review of anatomy and physiology. □ Common Disorders- etiology, Patho physiology, Clinical manifestations, complications, prognosis. □ Health assessment-History taking, physical examination, investigation and diagnostic assessment. □ Treatment modalities and trends. □ Nursing management. □ Related research studies. □ Evidence based nursing practice. □ Rehabilitation and follow-up.
VI	10	Management of patients with disorders of respiratory system □ Review of anatomy and physiology. □ Common Disorders- etiology, Patho physiology, Clinical manifestations, complications, prognosis. □ Health assessment-History taking, physical examination, investigation and diagnostic assessment. □ Treatment modalities and trends. □ Nursing management. □ Related research studies. □ Evidence based nursing practice. □ Rehabilitation and follow-up.
VII	10	Management of patients with disorders of cardio vascular system □ Review of anatomy and physiology. □ Common Disorders- etiology, Patho physiology, Clinical manifestations, complications, prognosis. □ Health assessment-History taking, physical examination, investigation and diagnostic assessment. □ Treatment modalities and trends. □ Nursing management. □ Related research studies. □ Evidence based nursing practice. □ Rehabilitation and follow-up.
VIII	5	Management of patients with disorders of blood □ Review of anatomy and physiology. □ Common Disorders- etiology, Patho physiology, Clinical manifestations, complications, prognosis. □ Health assessment-History taking, physical examination, investigation and diagnostic assessment. □ Treatment modalities and trends. □ Nursing management. □ Related research studies □ Evidence based nursing practice □ Rehabilitation and follow-up
IX	10	Management of patients with disorders of genito urinary system □ Review of anatomy and physiology. □ Common Disorders- etiology, Patho physiology, Clinical manifestations, complications, prognosis.

Unit	Hours	Content
		□ Health assessment-History taking, physical examination, investigation and diagnostic assessment. □ Treatment modalities and trends. □ Nursing management. □ Related research studies. □ Evidence based nursing practice. □ Rehabilitation and follow-up.
X	10	Management of patients with disorders of endocrine system □ Review of anatomy and physiology. □ Common Disorders- etiology, Patho physiology, Clinical manifestations, complications, prognosis. □ Health assessment-History taking, physical examination, investigation and diagnostic assessment. □ Treatment modalities and trends. □ Nursing management. □ Related research studies. □ Evidence based nursing practice. □ Rehabilitation and follow-up.
XI	10	Management of patients with disorders of musculo-skeletal system □ Review of anatomy and physiology. □ Common Disorders- etiology, Patho physiology, Clinical manifestations, complications, prognosis. □ Health assessment-History taking, physical examination, investigation and diagnostic assessment. □ Treatment modalities and trends. □ Nursing management. □ Related research studies. □ Evidence based nursing practice. □ Rehabilitation and follow-up.
XII	8	Management of patients with disorders of integumentary system □ Review of anatomy and physiology. □ Common Disorders- etiology, Patho physiology, Clinical manifestations, complications, prognosis. □ Health assessment-History taking, physical examination, investigation and diagnostic assessment. □ Treatment modalities and trends. □ Nursing management. □ Related research studies. □ Evidence based nursing practice. □ Rehabilitation and follow-up.
XIII	5	Management of patients with disorders of Eye and ENT □ Review of anatomy and physiology. □ Common Disorders- etiology, Patho physiology, Clinical manifestations, complications, prognosis. □ Health assessment-History taking, physical examination, investigation and diagnostic assessment. □ Treatment modalities and trends.

Unit	Hours	Content
		❑ Nursingmanagement. ❑ Related research studies. ❑ Evidence based nursingpractice. ❑ Rehabilitation andfollow-up.
XIV	8	Management of patients with disorders of reproductive system ❑ Review of anatomy andphysiology. ❑ Common Disorders- etiology, Patho physiology, Clinical manifestations, complications,prognosis. ❑ Health assessment-History taking, physical examination, investigation and diagnosticassessment. ❑ Treatment modalities andtrends. ❑ Nursingmanagement. ❑ Related research studies. ❑ Evidence based nursingpractice. ❑ Rehabilitation andfollow-up.
XV	8	Geriatric nursing ❑ Nursing Assessment-History and Physicalassessment. ❑ Ageing; ❑ Demography; Myths andrealities. ❑ Concepts and theories ofageing. ❑ Cognitive Aspects ofAgeing. ❑ Normal biologicalageing. ❑ Age related body systemschanges. ❑ Psychosocial Aspects ofAging. ❑ Medications andelderly. ❑ Stress & coping in olderadults. ❑ Common Health Problems & NursingManagement; ❑ Psychosocial andSexual. ❑ Abuse ofelderly. ❑ Role of nurse for care of elderly: ambulation, nutritional, communicational, psychosocial andspiritual. ❑ Role of nurse for caregivers ofelderly. ❑ Role of family and formal and non formalcaregivers. ❑ Use of aids and prosthesis (hearing aids,dentures, ❑ Legal & EthicalIssues. ❑ Provisions andProgrammesforelderly;privileges,Community Programs and healthservices; ❑ Home and institutionalcare. ❑ Issues, problems andtrends.
XVI	8	Management of patients with communicable and sexually transmitted diseases: ❑ Review of immunesystem. ❑ Common Disorders of immune system –HIV/AIDS. ❑ Review of infectious diseaseprocess. ❑ Communicable Diseases- etiology, Patho physiology, Clinical manifestations, complications,prognosis. ❑ Health assessment-History taking, physical examination, investigation and diagnosticassessment. ❑ Treatment modalities andtrends.

Unit	Hours	Content
		□ Nursingmanagement. □ Related research studies. □ Evidence based nursingpractice. □ Rehabilitation andfollow-up.
XVII	8	Emergency, trauma and multi-system organ failure □ DIC (disseminated intravascularcoagulation) □ Trauma, burns,poisoning □ Etiology, Patho physiology, Clinical manifestations, complications, prognosis. □ Health assessment-History taking, physical examination, investigation and diagnosticassessment. • Treatment modalities andtrends. • Nursingmanagement. • Related research studies. • Evidence based nursingpractice. • Rehabilitation andfollow-up.

Course Outcomes (Cos)- Clinical Speciality-I (MEDICALSURGICAL NURSING)

CO1	Remember the basic concepts of Medical surgical Nursing.
CO2	Understand of pathophysiology of medical surgical diseases
CO3	Apply recent advance managements of medical surgical disorders.
CO4	Analyze the deviations from normal physiological values of medical surgical disorders and take judicious judgement to handle the emergency conditions to save the life .
CO5	Evaluate the areas of research in medical surgical Nursing and integrate best evidence in Nursing practice.
CO6	Formulate/ Create the new standards/protocol for Nursing Management for medical surgical Emergencies.

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2				1	1		1	1	1	1	1		1	1
CO2						2						1		1	1
CO3		1	1			1		1	3	1	1	1		2	1
CO4	1	1	2			1		1	3	1	1	1			1
CO5										1					1
CO6	1		1		1	1	1			1	1		1	1	1

Mapping / Alignment of Cos with PO & PSO

(Tick mark or level of
correlation: 3-High, 2-
Medium, 1-Low)

PRACTICAL

TOTAL:660 HOURS

1WEEKS:30 HOURS

S.No.	Dept/Unit	No. of Week	Total Hours
	General Medical Ward	4	120 Hours
	General Surgical Ward	4	120 Hours
	ICUs	4	120 Hours
	Oncology	2	60 Hours
	Ortho	2	60 Hours
	Cardio	2	60 Hours
	Emergency Department	2	60 Hours
	Neuro	2	60 Hours
	Total	22 Weeks	660 Hours

Student Activities:

- Clinical presentations
- History taking
- Health Assessment
- Nutritional Assessment
- Health Education related to disease conditions
- Case studies
- Project work
- Field visits

ELECTIVE COURSE
(19ECCPR01)- CARDIOPULMONARY RESUSCITATION)

Part A- Introduction of the Course

Introduction:.. The courses in this program teach skills that participants need to know to give immediate care to a suddenly injured or ill person until more advanced medical personnel arrive and take over.

Course Objective and Summary

1. Recognize the signals of a cardiac emergency.
 2. List the causes of cardiac arrest.
 3. Explain the role of CPR in cardiac arrest.
 4. Demonstrate how to perform CPR.
 5. Recognize the signals of a breathing emergency.
 6. Demonstrate how to open a casualty's airway and check for breathing
 7. Demonstrate how to place an unresponsive casualty in the recovery position
 8. Be able to manage an unresponsive casualty who is not breathing normally
 9. Recognise the need to commence Cardiopulmonary Resuscitation (CPR)
 10. Perform Cardiopulmonary Resuscitation using a manikin
- **Summary:** Cardiopulmonary resuscitation (CPR) is a technique used to slow the process of brain death by restarting the heart and getting a person breathing again. Cardiopulmonary Resuscitation (CPR) can provide oxygen to the brain and other vital organs of a person who, by every indication, is dead. Used early and correctly, the technique can buy time for the victim until medical attention can be given.

Course Outcomes (Cos)

CO1	Remember the systematic review of circulatory system
CO2	Understand the importance of CPR
CO3	Apply or implement the techniques in CPR
CO4	Analyse the benefits and the outcome of CPR
CO5	Awareness of human factors relevant to airway management(based on Bloom's Taxonomy)
CO6	Awareness of importance of a team approach

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1		1	2	2	2			2	2	3		2	1
CO2	1	1		1						1	1	2		1	1
CO3		2		1	1	1	1	1		1	2	1		1	
CO4		1	1	1				1	3	2	2	1	1	1	
CO5		1	1	1	1	1	1	1				1	1	2	
CO6	1	1	1	1					3	2	2	1	1	1	

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

Part B- Content of the Course

Course Content

Alignment of topics of the courses with COs

Unit	Learning Objective	Content	Hrs	Alignment to COs
I	Explain the importance of CPR	➤ Introduction ➤ Anatomy And Physiology Of Circulatory System ➤ Purpose ➤ Indication ➤ Contraindication ➤ Principles Of CPR	T (10) P (3)	CO1 & CO2
II	Describe the steps of CPR	➤ Seven steps of CPR ➤ CAB ➤ ABC vs CAB ➤ Ventilation mouth to mouth ➤ Pocket mask ➤ By valve mask ➤ Neonatal resuscitation	T (10) P (5)	CO3
III	Explain post resuscitation management	➤ Post cardiac arrest care guidelines ➤ Chain of survival guidelines ➤ Legal And Ethical Issues	T (10) P (2)	CO4 & CO5

1. Teaching- Learning Strategies

- (i) Lecture cum Discussion
- (ii) Seminar
- (iii) Lab – demonstration on various techniques of CPR
- (iv) Re demonstration
- (v) Assignments

1. Assessment Techniques of each topic of the course

S. No	Topic	Assessment Techniques
1.	Importance of CPR	Short answer, objective type
2.	Steps of CPR	Short answers, objective type, demonstration
3.	Post resuscitation management	Case scenario, Redemonstration

(19ECFA02)- FIRSTAIDNURSING

Part A- Introduction of the Course

Introduction: Basic First Aid training course is designed to provide attendees with practical first aid skills to treat bleeding, fractures, burns & injuries.

Course Objective and Summary

On completion of this course, learners will be;

- *Able to understand their new responsibilities of an Occupational First Aider
- *Able to provide appropriate treatment for the purpose of preserving life
- *Able to minimize the consequences of injury until the arrival of medical assistance
- *Able to provide appropriate treatment for an injury which does not require the attention of a medical practitioner or nurse
- *Familiar with health & safety legislation on first aid in the workplace (e.g. Contents of First Aid Box)
- *Understand and demonstrate essential life saving skills

Summary: First aid also provides reassurance to the patient and confidence in the first aider to respond appropriately. It's a necessary and critical stage for preventing serious harm and is an indispensable skill to have.

Course Outcomes (Cos)

CO1	Recognize an emergency and evaluate scene safety
CO2	Understand the importance of Firstaid
CO3	Apply or implement the techniques of Firstaid
CO4	Analyse the situation, and provide Firstaid
CO5	Develop a healthy life style(based on Bloom's Taxonomy)
CO6	Create and conduct group/individual training programmes.

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1		1	1			2		1	3	2	2		1	2	1
CO2		1	1			1		1	3				1	1	1
CO3		2	2	1		1		1	3				2	1	1
CO4	1	1		1	2	1	1	1	3		2	1	1	1	1
CO5	1	1		2	1	1				3	1	1			
CO6	1	1		1	1	1	1	1	3	2	2	1	1	1	1

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

Part B- Content of the Course

Course Content

Alignment of topics of the courses with COs

Unit	Learning Objective	Content	Hrs	Alignment to COs
I	Introduction to Firstaid	• Introduction • Define is First Aid • How and when to call Emergency Services • Principles of Treatment • Patient Approach & Examination (Scene Safety) • Brief Introduction to Wounds and Bleeding	T (10) P (3)	CO1 & CO2
II	Explain about various conditions requires first aid	• Head injuries • Dressings and bandages • Shock – fainting • Unconsciousness • Recovery position • Asphyxia and its causes	T (10) P (5)	CO3 & CO6
III	Demonstrate the life saving procedures	• Cardiopulmonary resuscitation • Treating foreign bodies, chemical splashes • Burns and scalds • Fractures, Sprains, Strains and Dislocations	T (10) P (2)	CO4 & CO5

2. Teaching- Learning Strategies

- (vi) Lecture cum Discussion
- (vii) Seminar
- (viii) Lab – Demonstration
- (ix) Re- Demonstration
- (x) Assignments

2. Assessment Techniques of each topic of the course

S.No	Topic	Assessment Techniques
1.	Introduction	Short answer ,Skills Tests Collaborative learning projects Exams/tests/quizzes
2.	Various Conditions Require First Aid	Short answers, Objective type, Return demonstration
3.	Life saving procedures	Demonstration ,Classroom based power-point presentation with practical components; (i.e. Dealing with Emergencies)

(19ECOTT03)- OPERATION THEATRE TECHNIQUE

Introduction of the Course

Introduction: This course presents the student with an introductory overview related to the Drugs and solutions are required for the basic cleaning of the operating theatre, the preparation of the surgical setup, the scrub procedure of the operative team, the skin preparation of the patient, as medications used during the operation, and for cleaning of the theatre and equipment after the operation

Course Objective and Summary

1. Define the different techniques of OT
2. Explain types of operation Theatre
3. Explain the equipments used in operation Theatre
4. Distinguish OT protocol
5. Explain OT Carbolization
6. Enumerate the function of operation theatre
7. Explain the 4 methods of sterilization

Summary: Learning about Operation theatre technique will help the students learn about theatre techniques and its monitoring system.

Course Outcomes (Cos)

CO1	Understandingr the settings in operation theatre
CO2	Aalyse the functions of operation theatre
CO3	Recognize the categories of sterilization in OT
CO4	Apply equipments used in operation theatre
CO5	Develop the knowledge regarding principles of operation theatre)
CO6	Demonstrate the OT techniques while Performing Surgery

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1		1	1	3	2		2	1	2	2	2		1		1
CO2		1	1	3	3		1				1		1		1
CO3		2	2	3	1			1	2	1	2		2		1
CO4	1	1	1		2	1		1	2		2	1	1	1	
CO5	1	1	2		1	1			3		1	1	1	2	
CO6	1	3	1		1	1	1		1		2	1	1	1	

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

Content of the Course

Course Content

Alignment of topics of the courses with COs

Unit	Learning Objective	Content	Hrs	Alignment to COs
I	Introduction to operation theatre	An overview of the course - Introduction about operation theatre - Types of operation theatre - OT zone - OT carbolization	T (10) P (3)	CO1 & CO2
II	Explain about operation theatre technique	Operation theatre technique - Principles of operation theatre technique - Minor operation theatre - Equipments used in operation theatre - Sterile zone of OT	T (10) P (5)	CO3 & CO6
III	Explain about the sterilization methods in OT	Sterilization methods in OT Fumigation - Plasma Gas Sterilizers - Autoclaves - Vaporized Hydrogen Peroxide Sterilizers.	T (10) P (2)	CO4 & CO5

Teaching- Learning Strategies

- (xi) Lecture cum Discussion
- (xii) Seminar
- (xiii) Lab – Demonstration
- (xiv) Re- Demonstration
- (xv) Assignments

Assessment Techniques of each topic of the course

S.No	Topic	Assessment Techniques
1.	An overview of the course	Short answer
2.	OT principles and technique	Short answers, Objective type, Return demonstration
3.	OT disinfection	Short answers, Objective type, sample calculation

(19ECABGA04)-ABG ANALYSIS

Part A- Introduction of the Course

Introduction: This course presents the student with an introductory overview related An arterial blood gases (ABG) test measures the acidity (pH) and the levels of oxygen and carbon dioxide in the blood from an artery. This test is used to find out how well lungs are able to move oxygen into the blood and remove carbon dioxide from the blood. An elevation of HCO_3^- (over 26 mEq/L), along with elevated pH, indicates metabolic alkalosis. A decrease of HCO_3^- (under 22 mEq/L), along with decreased pH, indicates metabolic acidosis . If the PaO_2 level is decreased (less than 80 mmHg), hypoxemia is present.

Course Objective and Summary

1. Define the ABG Analysis
2. Explain the normal values of ABG analysis
3. Explain the procedure of taking sample for AB G analysis
4. Distinguish abnormal result of ABG analysis
5. Explain metabolic and respiratory acidosis
6. Explain metabolic and respiratory alkalosis

7. Explain care of patient after procedure

Summary: Learning about Operation theatre technique will help the students learn about ABG analysis.

Course Outcomes (Cos)

CO1	Understanding the normal ABG values
CO2	Demonstrate the procedure for sample collection in ABG analysis
CO3	Recognize the abnormal values in ABG analysis
CO4	Apply knowledge regarding metabolic and respiratory acidosis
CO5	Evaluate the abnormal values of ABG analysis
CO6	Understanding the care of patient after the procedure

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	1		2	2	2		2	2	2		1	2	1
CO2		1	1		3		1		2	1	1		1		1
CO3		2	2		1		1		2	1	2	1	2		1
CO4		1	1	3	2		1	1				1	1		
CO5	1	1	2				1	1	3	3	1	1	1		
CO6	1	3	1	3	1	1	1	1				1	1	1	

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

Content of the Course

Course Content

Alignment of topics of the courses with COs

UN IT	Learning Objective	Contents	Hrs	Alignment to COs
1	Introduction to Arterial gas analysis	• Review of anatomy and physiology of the blood vessels • Introduction to Arterial gas analysis • Definitions of arterial gas analysis • Indications and contraindications • Limitations • Complications • Post procedure management	T (10) P (3)	• CO1 & CO2
II	Explain the normal values and complications of abnormal blood gas level	• Base excess of blood gas • Respiratory acidosis • Respiratory alkalosis. □ Metabolic acidosis • Metabolic alkalosis. • Respiratory failure • Normal values of ABG • Interpretation of ABG • Compensation of ABG	T (10) P (5)	• CO3 & CO6
III	Explain the Arterial gas analysis procedure	• Preparing the patient • Rational and site selection • Puncturing and site preparation • Modified Allen's test • Preparation of equipment • Management of sample • Post sample patient care considerations • Management of Inoculation injury • Recording and reporting	T (10) P (2)	• CO4 & CO5

Teaching- Learning Strategies

1. Lecture cum Discussion
2. Seminar
3. Lab – Demonstration
4. Re- Demonstration
5. Assignments

Assessment Techniques of each topic of the course

S.No	Topic	Assessment Techniques
1.	An overview of the course	Short answer
2.	ABG analysis procedure	Short answers, Objective type, Return demonstration
3.	ABG analysis values	Short answers, Objective type, sample calculation

(19ECVPM05)- CENTRAL VENOUS PRESSURE MONITORING

Introduction of the Course

Introduction: This course is designed to provide nursing students with the skills required Central venous pressure is considered a direct measurement of the blood pressure in the right atrium and vena cava. It is acquired by threading a central venous catheter (subclavian double lumen central line shown) into any of several large veins. central venous pressure is measured by a central venous catheter placed through either the subclavian or internal jugular veins. The central venous pressure can be monitored using a pressure transducer or amplifier. First, the transducer or amplifier must be zeroed to atmospheric pressure.

Course Objective and Summary

1. **Define** central venous pressure monitoring
2. Explain the normal CVP
3. Explain the purpose of CVP line
4. Explain causes increased CVP
5. Enumerate indications for a central venous line
6. Explain most common immediate complication of central line insertion
7. Enlist the signs of CVC problems

8. Explain the care of patient with CVP line

Summary: Learning about CVP monitoring will help the students to operate cardiac monitors and its interpretation will help the student to learn about cardiac functions in a distinct manner.

Course Outcomes (Cos)

CO1	Remember the systematic review of cardio vascular system
CO2	Understand the importance of Central venous pressure
CO3	Apply or implement the knowledge in Central venous pressure monitoring
CO4	Analyze issues of Central venous pressure monitoring
CO5	Assess the reading of Central venous pressure monitoring (based on Bloom's Taxonomy)
CO6	Develop the protocol of Central venous pressure monitoring in emergency units

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1				3	2	3		1		2		3	1	2	
CO2		1	1		3	1		1		1		2	1	1	
CO3		2	2		1	1		1		1		1		1	
CO4	3	1	1		2	1	1	1	1	2	2	1		1	1
CO5	1	1	2	3	1				1	3	1	1		2	2
CO6	1	1	1	3	1	1	1	1	1	2	2	1	1	1	1

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

Content of the Course

Course Content

Alignment of topics of the courses with COs

Unit	Learning Objective	Content	Hrs	Alignment to COs
I	Introduction to cardiac monitoring	Assessment of critically ill patient & its terminology Nursing care plan • Critical care nursing record & Reports for other units • Evaluation criteria • Respiratory assessment • Artificial airways • Suctioning (Use of ambu bag ,Percussion &vibration ,oxygen therapy & Inhalation therapy • Mechanical ventilation • Pulse oximeter&Capnogram • Arterial puncture & Arterial line • ABG interpretation • Chest tube	T (10) P (5)	CO1 & CO2
II	Explain the Central venous pressure monitoring	• central venous pressure monitoring • the normal CVP • the purpose of CVP line • causes increased CVP • manage CVP line • indications for a central venous line • most common immediate complication of central line insertion • signs of CVC problems • prevent complications of central venous catheters • Role of nurse in care of patient with CVP	T (10) P (5)	CO3 & CO4&CO5 CO6

Teaching- Learning Strategies

1. Lecture cum Discussion
2. Seminar
3. Lab – Demonstration
4. Re- Demonstration
5. Assignments

Assessment Techniques of each topic of the course

S.No	Topic	Assessment Techniques
1.	Introduction to cardiac monitoring	Short answer
2.	Clinical application of CVP monitoring	Short answers, Objective type, Return demonstration
3.	Practice in clinical care units	Short answers, Objective type, sample calculation

(19NM05)- NURSING MANAGEMENT

PLACEMENT-II YEAR

Hours of instruction	
Theory:150hours	Credit:7.5
Practical:150hours	Credit:7.5

Course Description

This course is designed to assist students to develop a broad understanding of Principles, concepts, trends and issues related to nursing management. Further, it would provide opportunity to students to understand, appreciate and acquire skills in planning, supervision and management of nursing services at different levels to provide quality nursing services.

Objectives

At the end of the course, students will be able to:

1. Describe the philosophy and objectives of the health care institutions at various levels.
2. Identify trends and issues in nursing
3. Discuss the public administration, health care administration vis a vis nursing administration
4. Describe the principles of administration applied to nursing
5. Explain the organization of health and nursing services at the various levels/institutions.
6. Collaborate and co-ordinate with various agencies by using multi-sectoral approach
7. Discuss the planning, supervision and management of nursing workforce for various health care settings.
8. Discuss various collaborative models between nursing education and nursing service to improve the quality of nursing care
9. Identify and analyze legal and ethical issues in nursing administration
10. Describe the process of quality assurance in nursing services.
11. Demonstrate leadership in nursing at various levels

Course Content

Unit	Hours	Content
I	10	Introduction ❑ Philosophy, purpose, elements, principles and scope of administration ❑ Indian Constitution, Indian Administrative system vis a vis health care delivery system: National, State and Local ❑ Organization and functions of nursing services and education at National, State, District and institutions: Hospital and Community ❑ Planning process: Five-year plans, Various Committee Reports on health, State and National Health policies, national population policy, national policy on AYUSH and plans,
II	10	Management ❑ Functions of administration ❑ Planning and control ❑ Co-ordination and delegation ❑ Decision making – decentralization basic goals of decentralization. ❑ Concept of management Nursing management ❑ Concept, types, principles and techniques ❑ Vision and Mission Statements ❑ Philosophy, aims and objective ❑ Current trends and issues in Nursing Administration ❑ Theories and models Application to nursing service and education
III	15	Planning ❑ Planning process: Concept, Principles, Institutional policies ❑ Mission, philosophy, objectives, ❑ Strategic planning ❑ Operational plans ❑ Management plans ❑ Programme evaluation and review technique (PERT), Gantt chart, Management by objectives (MBO) ❑ Planning new venture ❑ Planning for change ❑ Innovations in nursing Application to nursing service and education

IV	15	Organization ❑ Concept, principles, objectives, Types and theories, Minimum requirements for organization, Developing an organizational Structure, levels, organizational Effectiveness and organizational Climate, ❑ Organizing nursing services and patient care: Methods of patient assignment- Advantages and disadvantages, primary nursing care, ❑ Planning and Organizing: hospital, unit and ancillary services (specifically central sterile supply department, laundry, kitchen, laboratory services, emergency etc) ❑ Disaster management: plan, resources, drill, etc Application to nursing service and education
V	15	Human Resource for health ❑ Staffing • Philosophy • Norms: Staff inspection unit (SIU), Bajaj Committee, High power committee, Indian nursing council (INC) • Estimation of nursing staff requirement- activity analysis • Various research studies ❑ Recruitment: credentialing, selection, placement, promotion ❑ Retention ❑ Personnel policies ❑ Termination ❑ Staff development programme ❑ Duties and responsibilities of various category of nursing personnel Applications to nursing service and education
VI	15	Directing ❑ Roles and functions ❑ Motivation: Intrinsic, extrinsic, Creating motivating climate, Motivational theories ❑ Communication: process, types, strategies, Interpersonal communication, channels, barriers, problems, Confidentiality, Public relations ❑ Delegation; common delegation errors ❑ Managing conflict: process, management, negotiation, consensus ❑ Collective bargaining: health care labour laws, unions,

		professional associations, role of nurse manager ❑ Occupational health and safety Application to nursing service and education
VII	10	Material management ❑ Concepts, principles and procedures ❑ Planning and procurement procedures: Specifications ❑ ABC analysis, ❑ VED (very important and essential daily use) analysis ❑ Planning equipments and supplies for nursing care: unit and hospital ❑ Inventory control ❑ Condemnation Application to nursing service and education
VIII	15	Controlling ❑ Quality assurance – Continuous Quality Improvement • Standards • Models • Nursing audit ❑ Performance appraisal: Tools, confidential reports, formats, Management, interviews ❑ Supervision and management: concepts and principles ❑ Discipline: service rules, self-discipline, constructive versus destructive discipline, problem employees, disciplinary proceedings- enquiry etc ❑ Self-evaluation or peer evaluation, patient satisfaction, utilization review Application to nursing service and education
IX	15	Fiscal planning ❑ Steps ❑ Plan and non-plan, zero budgeting, mid-term appraisal, capital and revenue ❑ Budget estimate, revised estimate, performance budget ❑ Audit ❑ Cost effectiveness ❑ Cost accounting ❑ Critical pathways ❑ Health care reforms ❑ Health economics ❑ Health insurance ❑ Budgeting for various units and levels Application to nursing service and education

X	10	Nursing informatics ❑ Trends ❑ General purpose ❑ Use of computers in hospital and community ❑ Patient records system ❑ Nursing records and reports ❑ Management information and evaluation system (MIES) ❑ E-nursing, Telemedicine, telenursing ❑ Electronic medical records
XI	10	Leadership ❑ Concepts, Types, Theories ❑ Styles ❑ Manager behavior ❑ Leader behavior ❑ Effective leader: Characteristics, skills ❑ Group dynamics ❑ Power and politics ❑ lobbying ❑ Critical thinking and decision making ❑ Stress management Applications to nursing service and education
XII	10	Legal and ethical issues Laws and ethics ❑ Ethical committee ❑ Code of ethics and professional conduct ❑ Legal system: Types of law, tort law, and liabilities ❑ Legal issues in nursing: negligence, malpractice, invasion of privacy, defamation of character ❑ Patient care issues, management issues, employment issues ❑ Medico legal issues ❑ Nursing regulatory mechanisms: licensure, renewal, accreditation ❑ Patients' rights, Consumer protection act (CPA) ❑ Rights of special groups: children, women, HIV, handicap, ageing ❑ Professional responsibility and accountability ❑ Infection control ❑ Standard safety measures

COURSE OUTCOMES (Cos)

CO1	Describe the philosophy and objectives of the Health care institution at various level
CO2	Identify trends and issues in Nursing
CO3	Discuss the public administration, health care administration vis a vis Nursing administration
CO4	Describe the Principles of administration applied to Nursing
CO5	Explain the organization of Health and Nursing services at the various level
CO6	Identify and analyse legal and ethical issues in Nursing Administration

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	2	2	1		2			2	2	2		2	1	2
CO2		2	2			1					2	1	2		2
CO3		3		1			2			1	2		2		2
CO4	2					1			1		1		2	2	2
CO5	1	2	2	2	2		2	2		2		2			
CO6		2	2	2	2		2	2		2		2	2	2	2

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

PRACTICALS

- Prepare prototype personal files for staff nurses, faculty and cumulative records
- Preparation of budget estimate, Revised estimate and performance budget
- Plan and conduct staff development programme
- Preparation of Organization Chart
- Developing nursing standards/protocols for various units
- Design a layout plan for specialty units /hospital, community and educational institutions
- Preparation of job description of various categories of nursing personnel
- Prepare a list of equipment and supplies for specialty units
- Assess and prepare staffing requirement for hospitals, community and educational institutions
- Plan of action for recruitment process
- Prepare a vision and mission statement for hospital, community and educational institutions
- Prepare a plan of action for performance appraisal
- Identify the problems of the specialty units and develop plan of action by using problem solving approach
- Plan a duty roster for specialty units/hospital, community and educational institutions
- Prepare: anecdotes, incident reports, day and night reports, handing and taking over reports, enquiry reports, nurses notes, Official letters, curriculum vitae, presentation etc
- Prepare a plan for disaster management
- Groupwork
- Field appraisal report

(19MSN04)- CLINICAL SPECIALITY-II
MEDICAL SURGICAL NURSING
PLACEMENT-IIYEAR

Theory: 150hours
Practical: 950hours

Credit:7.5
Credit:47.5

CARDIO VASCULAR AND THORACIC NURSING

Placement : II year

Hours of Instruction
Theory : 150
hours.
Practical : 950
hours.Total : 1100
hours.

Course Description

This course is designed to assist students in developing expertise and in-depth understanding in the field of cardiovascular and thoracic nursing. It will help students to develop advanced skills for nursing intervention in various cardio medical and surgical conditions. It will enable the student to function as Cardio vascular and Thoracic Nurse practitioner/specialist. It will further enable the student to function as educator, manager and researcher in the field of cardio vascular and thoracic nursing.

Objectives

At the end of the course the students will be able to:

1. Appreciate trends and issues related to cardio vascular and thoracic Nursing.
2. Describe the epidemiology, etiology, pathophysiology and diagnostic assessment of cardio vascular and thoracic conditions
3. Participate in national health programs for health promotion, prevention and rehabilitation of patients with cardio vascular and thoracic conditions
4. Perform physical, psychosocial & spiritual assessment
5. Assist in various diagnostic, therapeutic and surgical procedures
6. Apply nursing process in providing comprehensive care to patients with cardio vascular and thoracic conditions
7. Demonstrate advance skills/competence in managing patients with cardio vascular and thoracic conditions including Advance Cardiac Life Support.
8. Describe the various drugs used in cardio vascular and thoracic conditions and nurses responsibility
9. Demonstrate skill in handling various equipments/gadgets used for critical care of cardio vascular and thoracic patients
10. Appreciate team work & coordinate activities related to patient care.Practice infection control measures.

11. Identify emergencies and complications & take appropriate measures
12. Discuss the legal and ethical issues in cardio vascular and thoracic nursing
13. Assist patients and their family to cope with emotional distress, grief, anxiety and spiritual needs.
14. Appreciate the role of alternative system of medicine in care of patient
15. Incorporate evidence based nursing practice and identify the areas of research in the field of cardio vascular and thoracic nursing
16. Identify the sources of stress and manage burnout syndrome among health care providers.
17. Teach and supervise nurses and allied health workers.
18. Design a layout of ICCU and ICTU and develop standards for cardio vascular and thoracic nursing practice.

Content Outline

Unit	Hours	Content
I	5	Introduction ❑ Historical development, trends and issues in the field of cardiology. ❑ Cardio vascular and thoracic conditions – major health problem. ❑ Concepts, principles and nursing perspectives ❑ Ethical and legal issues ❑ Evidence based nursing and its application in cardio vascular and thoracic nursing(to be incorporated in all the units)
II	5	Epidemiology ❑ Risk factors: hereditary, psycho social factors, hypertension, smoking, obesity, diabetes mellitus etc ❑ Health promotion, disease prevention, Life style modification ❑ National health programs related to cardio vascular and thoracic conditions ❑ Alternate system of medicine ❑ Complementary therapies
III	5	Review of anatomy and physiology of cardio vascular and respiratory system ❑ Review of anatomy and physiology of heart, lung, thoracic cavity and blood vessels. Embryology of heart and lung. ❑ Coronary circulation ❑ Hemodynamics and electro physiology of heart. ❑ Bio-chemistry of blood in relation to cardio pulmonary function.
IV	20	Assessment and Diagnostic Measures: ❑ History taking ❑ Physical assessment • Heart rate variability: Mechanisms , measurements, pattern, factors, impact of interventions on HRV ❑ Diagnostic tests • Hemodynamic monitoring: Technical aspects, monitoring, functional hemodynamic indices, ventricular function indices,

Unit	Hours	Content
		output measurements (Arterial and swan Ganz monitoring). Blood gases and its significance, oxygen supply and demand • Radiologic examination of the chest: interpretation, chest film findings • Electro cardiography(ECG) : electrical conduction through the heart, basic electrocardiography, 12 lead electrocardiogram, axisdetermination - ECG changes in: intraventricular conduction abnormalities- Arrhythmias, ischemia, injury and infarction, atrial and ventricular enlargement, electrolyte imbalance, • Echocardiography: technical aspects, special techniques, echocardiography of cardiac structures in health and disease, newer techniques • Nuclear and other imaging studies of the heart: Magnetic Resonance Imaging. • Cardio electrophysiology procedures: diagnostic studies, interventional and catheter ablation, nursing care • Exercise testing: indications and objectives, safety and personnel, pretest considerations, selection, interpretation, test termination, recovery period • Cardiac catheterization: indications, contraindications, patient preparation, procedure, interpretation of data • Pulmonary function test: Bronchoscopy and graphies • Interpretation of diagnostic measures • Nurse's role in diagnostic tests ❑ Laboratory tests using blood: Blood specimen collection, Cardiacmarkers, Blood lipids, Hematologic studies, Blood cultures, Coagulation studies, Arterial blood gases, Blood Chemistries, cardiac enzyme studies, Serum Concentration of Selected drugs. ❑ Interpretation and role of nurse

V	25	Cardiac disorders and nursing management: □ Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, treatment modalities and nursing management of: • Hypertension • Coronary Artery Disease. • Angina of various types. • Cardiomegaly • Myocardial Infarction, Congestive cardiac failure • Heart Failure, Pulmonary Edema, Shock. • Rheumatic heart disease and other Valvular Diseases • Inflammatory Heart Diseases, Infective Endocarditis, Myocarditis, Pericarditis. • Cardiomyopathy, dilated, restrictive, hypertrophic. • Arrhythmias, heart block Associated illnesses

Unit	Hours	Content
VI	10	Altered pulmonary conditions □ Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, treatment modalities and nursing management of: • Bronchitis • Bronchial asthma • Bronchiectasis • Pneumonias • Lung abscess, lung tumour • Pulmonary tuberculosis, fibrosis, pneumoconiosis etc • Pleuritis, effusion • Pneumo, haemo and pyothorax • Interstitial Lung Disease • Cystic fibrosis • Acute and Chronic obstructive pulmonary disease (conditions leading to) • Cor pulmonale • Acute respiratory failure • Adult respiratory distress syndrome • Pulmonary embolism • Pulmonary Hypertension
VII	10	Vascular disorders and nursing management □ Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, treatment modalities and nursing management of: • Disorders of arteries • Disorders of the aorta • Aortic Aneurysms, • Aortic dissection • Raynaud's phenomenon • Peripheral arterial disease of the lower extremities • Venous thrombosis • Varicose veins • Chronic venous insufficiency and venous leg ulcers • Pulmonary embolism
VIII	10	Cardio thoracic emergency interventions □ CPR- BLS and ALS □ Use of ventilator, defibrillator , pacemaker □ Post resuscitation care. □ Care of the critically ill patients □ Psychosocial and spiritual aspects of care □ Stress management; ICU psychosis □ Role of nurse

IX	10	Nursing care of a patient with obstructive airway ❑ Assessment ❑ Use of artificial airway ❑ Endotracheal intubation, tracheostomy and its care ❑ Complication, minimum cuff leak, securing tubes Oxygen delivery systems. ❑ Nasal Cannula

Unit	Hours	Content
		❑ Oxygen mask, Venturi mask ❑ Partial rebreathing bag ❑ Bi-PAP and C-PAP masks ❑ Uses, advantages, disadvantages, nursing implications of each. Mechanical Ventilation ❑ Principles of mechanical ventilation ❑ Types of mechanical ventilation and ventilators. ❑ Modes of ventilation, advantage, disadvantage, complications. ❑ PEEP therapy, indications, physiology, and complications. - Weaning off the ventilator. ❑ Nursing assessment and interventions of ventilated patient.
X	10	Congenital Heart Diseases, ❑ Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, treatment modalities and nursing management of: • Embryological development of heart. • Classification – cyanotic and acyanotic heart disease. • Tetralogy of Fallots. • Atrial Septal Defect, Ventricular Septal Defect., Eisenmenger's complex. • Patent ductus arteriosus, AP window • Truncus Arteriosus. • Transposition of great arteries. • Total Anomaly of Pulmonary Venous Connection. • Pulmonary stenosis, atresia. • Coarctation of aorta. • Ebstein's anomaly • Double outlet right ventricle, Single ventricle, Hypoplastic left heart syndrome.

XI	10	Pharmacology ❑ Review ❑ Pharmacokinetics ❑ Analgesics/Anti inflammatory agents ❑ Antibiotics, antiseptics ❑ Drug reaction & toxicity ❑ Drugs used in cardiac emergencies ❑ Blood and blood components • Antithrombolytic agents • Inotropic agents • Beta-blocking agents • Calcium channel blockers. • Vaso constrictors • Vaso dilators • ACE inhibitors. • Anticoagulents • Antiarrhythmic drugs. • Anti hypertensives • Diuretics • Sedatives and tranquilizers. • Digitalis.

Unit	Hours	Content
		• Antilipemics □ Principles of drug administration, role and responsibilities of nurses and care of drugs
XII	20	Nursing Care of patient undergoing cardio thoracic surgery □ Indications, selection of patient □ Preoperative assessment and preparation; counselling. □ Intraoperative care: Principles of open heart surgery, equipment, anaesthesia, cardiopulmonary by pass. □ Surgical procedures for Coronary Artery Bypass Grafting, recent advances and types of grafts, Valve replacement or reconstruction, cardiac transplant, Palliative surgery and different Stents, vascular surgery, other recent advances. □ Thoracic surgery: lobectomy, pneumonectomy, tumour excision etc □ Immediate postoperative care : assessment, post operative problems and interventions : Bleeding, Cardiac tamponade, Low cardiac output, Infarction, Pericardial effusion, Pleural effusion, Pneumothorax, Haemothorax, Coagulopathy, Thermal imbalance, Inadequate., ventilation/perfusion, Neurological problems, renal problems, Psychological problems. □ Chest physiotherapy □ Nursing interventions- life style modification, complementary therapy/alternative systems of medicine. □ Intermediate and late post operative care after CABG, valve surgery, others. Follow up care
XII I	5	Cardiac rehabilitation □ Process □ Physical evaluation □ Life style modification □ Physical conditioning for cardiovascular efficiency through exercise □ Counseling □ Follow up care
XIV	5	Intensive Coronary Care Unit/intensive cardio thoracic unit: □ Quality assurance • Standards, Protocols, Policies, Procedures • Infection control; Standard safety measures • Nursing audit • Design of ICCU/ICTU • Staffing; cardiac team • Burn out syndrome □ Nurse's role in the management of I.C.C.U and ICTU. □ Mobile coronary care unit. □ Planning inservice educational programme and teaching

Practicals

Total – 960 Hours1
Weeks = 30 Hours

S.No .	Deptt/ Unit	No. of Week	Total Hours
1	Cardio thoracic -Medical	4	120 Hours
	-Surgical	4	120 Hours
2.	OTs (Cardiac and thoracic)	4	120 Hours
3.	Casualty	2	60 Hours
4.	Diagnostic labs including cath lab	2	60 Hours
5.	ICCU	4	120 Hours
6.	ICU	4	120 Hours
7.	CCU	4	120 Hours
8.	Paediatric Intensive	2	60 Hours
9.	OPD	2	60 Hours
	Total	32 Weeks	960 Hours

Essential Nursing Skills

Procedures Observed

1. Echo cardiogram
2. Ultrasound
3. Monitoring JVP , CVP
4. CT SCAN
5. MRI
6. Pet SCAN
7. Angiography
8. Cardiac cathetrisation
9. Angioplasty
10. Various Surgeries
11. Any other

Procedures Assisted

1. Arterial blood gas analysis
2. Thoracentesis
3. Lung biopsy
4. Computer assisted tomography (CAT Scan)
5. M.R.I.
6. Pulmonary angiography
7. Bronchoscopy
8. Pulmonary function test
9. ET tube insertion
10. Tracheostomy tube insertion
11. Cardiac catheterisation
12. Angiogram
13. Defibrillation
14. Treadmill test

15. Doppler ultrasound
16. Cardiac surgery
17. Insertion of chest tube
18. CVP Monitoring
19. Measuring pulmonary artery pressure by Swan-Ganz Catheter
20. Cardiac Pacing

I. Procedures Performed

1. Preparation of assessment tool for CT client (Cardiac, thoracic and vascular).
2. ECG – Recording, Reading, Identification of abnormalities
3. Oxygen therapy – Cylinder, central supply, Catheter, nasal canula, mask, tent Through ET and Tracheostomy tube Manual resuscitation bag
4. Mechanical ventilation
5. Spirometer
6. Tuberculin skin test
7. Aerosol therapy
8. Nebulizer therapy
9. Water seal drainage
10. Chest physiotherapy including – Breathing Exercises Coughing Exercises Percussion & Vibration
11. Suctioning – Oropharyngeal, nasotracheal, Endotracheal Through tracheostomy tube
12. Artificial airway cuff maintenance
13. CPR
14. Care of client on ventilator
15. Identification of different – Arrhythmia
sAbnormal pulses, respirations
B.P. Variation
Heart sounds
Breath sounds
16. Pulse oxymetry
17. Introduction of intracath
18. Bolus I.V. Injection
19. Life line
20. Maintenance of “Heplock”
21. Subcutaneous of Heparin
22. Obtaining leg measurements to detect early swelling in thrombophlebitis
23. Identification of Homans signs
24. Buerger – Allen exercises

MEDICAL SURGICAL NURSING - CRITICAL CARE NURSING

Placement: II Year

Hours of
instruction
Theory: 150
hours
Practical: 950
hours
Total : 1100
hours

Course Description

This course is designed to assist students in developing expertise and in-depth knowledge in the field of Critical care Nursing. It will help students to develop advanced skills for nursing intervention in caring for critically ill patients. It will enable the student to function as critical care nurse practitioner/ specialist. It will further enable the student to function as educator, manager and researcher in the field of Critical Care Nursing.

Objectives

At the end of the course the students will be able to

1. Appreciate trends and issues related to Critical Care Nursing.
2. Describe the epidemiology, etiology, pathophysiology and diagnostic assessment of critically ill patients
3. Describe the various drugs used in critical care and nurses responsibility
4. Perform physical, psychosocial & spiritual assessment
5. Demonstrate advance skills/competence in managing critically ill patients including Advance Cardiac Life Support.
6. Demonstrate skill in handling various equipments/gadgets used for critical care
7. Provide comprehensive care to critically ill patients.
8. Appreciate team work & coordinate activities related to patient care.
9. Practice infection control measures.
10. Assess and manage pain .
11. Identify complications & take appropriate measures.
12. Discuss the legal and ethical issues in critical care nursing
13. Assist patients and their family to cope with emotional distress, spiritual, grief and anxiety
14. Assist in various diagnostic, therapeutic and surgical procedures
15. Incorporate evidence based nursing practice and identify the areas

of research in the field of critical care nursing

16. Identify the sources of stress and manage burnout syndrome among health care providers.
17. Teach and supervise nurses and allied health workers.
18. Design a layout of ICU and develop standards for critical care nursing practice.

Course Content

Unit	Hours	Content
I	5	Introduction to Critical Care Nursing ❑ Historical review- Progressive patient care(PPC) ❑ Review of anatomy and physiology of vital organs, fluid and electrolyte balance ❑ Concepts of critical care nursing ❑ Principles of critical care nursing ❑ Scope of critical care nursing ❑ Critical care unit set up including equipments supplies, use and care of various type of monitors & ventilators ❑ Flow sheets
II	10	Concept of Holistic care applied to critical care nursing practice ❑ Impact of critical care environment on patients:- • Risk factors, Assessment of patients, Critical care psychosis, prevention & nursing care for patients affected with psychophysiological & psychosocial problems of critical care unit, Caring for the patient's family, family teaching ❑ The dynamics of healing in critical care unit:-therapeutic touch, Relaxation, Music therapy, Guided Imagery, acupuncture ❑ Stress and burnout syndrome among health team members
III	14	Review ❑ Pharmacokinetics ❑ Analgesics/Anti inflammatory agents ❑ Antibiotics, antiseptics ❑ Drug reaction & toxicity ❑ Drugs used in critical care unit (inclusive of ionotropic, life saving drugs) ❑ Drugs used in various body systems ❑ IV fluids and electrolytes ❑ Blood and blood components ❑ Principles of drug administration, role of nurses and care of drugs
IV	5	Pain Management ❑ Pain & Sedation in Critically ill patients ❑ Theories of pain, Types of pain, Pain assessment, Systemic responses to pain ❑ pain management-pharmacological and non-pharmacological measures ❑ Placebo effect

Unit	Hours	Content
V	5	Infection control in intensive care unit ☐ Nosocomial infection in intensive care unit; methyl resistant staphylococcus aureus (MRSA), Disinfection, Sterilization, Standard safety measures, Prophylaxis for staff
VI	10	Gastrointestinal System ☐ Causes, Pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis, Management: Medical, Surgical and Nursing management of:-Acute Gastrointestinal Bleeding, Abdominal injury, Hepatic Disorders:-Fulminant hepatic failure, Hepatic encephalopathy, Acute Pancreatitis, Acute intestinal obstruction, perforative peritonitis
VII	10	Renal System ☐ Causes, pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis, Management: Medical, Surgical and Nursing management of:-Acute Renal Failure, Chronic Renal Failure, Acute tubular necrosis, Bladder trauma ☐ Management Modalities: Hemodialysis, Peritoneal Dialysis, Continuous Ambulatory Peritoneal Dialysis, Continuous arterio-venous hemodialysis, Renal Transplant,
VIII	10	Nervous System ☐ Causes, pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis, Management: Medical, Surgical and Nursing management of:-Common Neurological Disorders:-Cerebrovascular disease, Cerebrovascular accident, Seizure disorders, Guillain-Barre-Syndrome, Myasthenia Gravis, Coma, Persistent vegetative state, Encephalopathy, Head injury, Spinal Cord injury ☐ Management Modalities: Assessment of Intracranial pressure, Management of intracranial hypertension, Craniotomy ☐ Problems associated with neurological disorders: Thermo regulation, Unconsciousness, Herniation syndrome
IX	5	Endocrine System ☐ Causes, Pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis, Management: Medical, Surgical and Nursing Management of :-Hypoglycemia, Diabetic Ketoacidosis, Thyroid crisis, Myxoedema, Adrenal crisis, Syndrome of Inappropriate/ hypersecretion of Antidiuretic Hormone (SIADH)
X	15	Management of other Emergency Conditions ☐ Mechanism of injury, Thoracic injuries, Abdominal injuries, pelvic fractures, complications of trauma, Head injuries ☐ Shock: Shock syndrome, Hypovolemic, Cardiogenic, Anaphylactic, Neurogenic and Septic shock ☐ Systemic inflammatory Response: The inflammatory response, Multiple organ dysfunction syndrome ☐ Disseminated Intravascular Coagulation ☐ Drug Overdose and Poisoning, ☐ Acquired Immunodeficiency Syndrome (AIDS)

Unit	Hours	Content
		❑ Ophthalmic: Eye injuries, Glaucoma, retinal detachment ❑ Ear Nose Throat: Foreign bodies, stridor, bleeding, quincy, acute allergic conditions ❑ Psychiatric emergencies; suicide, crisis intervention
XI	20	Cardiovascular emergencies ❑ Principles of Nursing in caring for patient's with Cardiovascular disorders ❑ Assessment: Cardiovascular system: Heart sounds, Diagnostic studies:- Cardiac enzymes studies, Electrocardiographic monitoring, Holter monitoring, Stress test. Echo cardiography, Coronary angiography, Nuclear medicine studies ❑ Causes, Pathophysiology, Clinical types, Clinical features, Diagnostic Prognosis, Management : Medical, Surgical & Nursing management of:-Hypertensive crisis, Coronary artery disease, Acute Myocardial infarction, Cardiomyopathy, Deep vein thrombosis, Valvular diseases, Heart block, Cardiac arrhythmias & conduction disturbances, Aneurysms, Endocarditis, Heart failure Cardio pulmonary resuscitation BCLS/ ACLS ❑ Management Modalities: Thrombolytic therapy, Pacemaker – temporary & permanent, Percutaneous transluminal coronary angioplasty, Cardioversion, Intra Aortic Balloon pump monitoring, Defibrillations, Cardiac surgeries, Coronary Artery Bypass Grafts (CABG/MICAS), Valvular surgeries, Heart Transplantation, Autologous blood transfusion, Radiofrequency Catheter Ablation

XII	15	Respiratory System ❑ Acid-base balance & imbalance ❑ Assessment : History & Physical Examination ❑ Diagnostic Tests:Pulse Oximetry, End –Tidal Carbon Dioxide Monitoring, Arterial blood gas studies, chest radiography, pulmonary Angiography, Bronchoscopy, Pulmonary function Test, Ventilation perfusion scan, Lung ventilation scan ❑ Causes Pathophysiology, Clinical types, Clinical features, Prognosis, Management: Medical, Surgical and Nursing management of Common pulmonary disorders:-Pneumonia, Status asthmaticus, interstitial lung disease, Pleural effusion, Chronic obstructive pulmonary disease, Pulmonary tuberculosis, Pulmonary edema, Atelectasis, Pulmonary embolism, Acute respiratory failure, Acute respiratory distress syndrome (ARDS), Chest Trauma Haemothorax, Pneumothorax ❑ Management Modalities:-Airway Management ❑ Ventilatory Management:-Invasive, non- invasive, long term mechanical ventilations ❑ Bronchial Hygiene:-Nebulization, deep breathing exercise, chest physiotherapy, postural drainage, Inter Costal Drainage, Thoracic surgeries

Unit	Hours	Content
XIII	7	Burns ❑ Clinical types, classification, pathophysiology, clinical features, assessment, diagnosis, prognosis, Management: Medical, Surgical & Nursing management of burns ❑ Fluid and electrolyte therapy – calculation of fluids and its administration ❑ Pain management ❑ Wound care ❑ Infection control ❑ Prevention and management of burn complications ❑ Grafts and flaps ❑ Reconstructive surgery ❑ Rehabilitation
XIV	5	Obstetrical Emergencies ❑ Causes, Pathophysiology, Clinical types, clinical features, diagnostic Prognosis, Management: Medical, Surgical and Nursing management of :Antepartum haemorrhage, Preeclampsia, eclampsia, Obstructed labour and ruptured uterus, Post partum haemorrhage, Puerperal sepsis, Obstetrical shock
XV	10	Neonatal Paediatric emergencies ❑ Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis, Management: medical, surgical and Nursing management of • Neonatal emergencies ❑ Asphyxia Neonatorum, Pathological Jaundice in Neonates, Neonatal seizures, Metabolic disorders, Intra cranial Hemorrhage, Neonatal Sepsis, RDS/HMD (Respiratory Distress Syndrome/Hyaline Membrane Disease), Congenital disorders:- • Cyanotic heart disease, tracheo oesophageal fistula, congenital hypertrophic pyloric stenosis, imperforate anus • Pediatric emergencies ❑ Dehydration, Acute broncho pneumonia, Acute respiratory distress syndrome, Poisoning, Foreign bodies, seizures, traumas, Status asthmaticus
XVI	2	Legal and ethical issues in critical care-Nurse's role ❑ Brain death ❑ Organ donation & Counselling ❑ Do Not Resuscitate(DNR) ❑ Euthanasia ❑ Living will
XVII	2	Quality assurance ❑ Standards, Protocols, Policies, Procedures ❑ Infection control; Standard safety measures ❑ Nursing audit ❑ Staffing ❑ Design of ICU/CCU

Practical

Total = 960 Hours1
Week = 30 Hours

S.No .	Deptt./Unit	No. of Week	Total Hours
3	Burns ICU	2	60 Hours
5	Medical ICU	8	240 Hours
6	Surgical ICU	12	360 Hours
9	CCU	2	60 Hours
10	Emergency Department	3	90 Hours
12	Dialysis Unit	1	30 Hours
13	Transplant Room	2	60 Hours
14	Paediatric/ NICU	2	60 Hours
	Total	32 Weeks	960 Hours

ESSENTIAL CRITICAL CARE NURSING SKILLS

I. Procedures Observed

1. CT Scan
2. MRI
3. EEG
4. Hemodialysis
5. Endoscopic Retrograde cholangio Pancreaticogram(ERCP)
6. Heart/ Neuro/GI./ Renal Surgeries

II. Procedures Assisted

1. Advanced life support system
2. Basic cardiac life support
3. Arterial line/arterial pressure monitoring/blood taking
4. Arterial blood gas
5. ECG recording
6. Blood transfusion
7. IV cannulation therapy
8. Arterial Catheterization
9. Chest tube insertion
10. Endotracheal intubations
11. Ventilation

12. Insertion of central line/cvp line
13. Connecting lines for dialysis

III. Procedure Performed

1. Airway management
 - a. Application of oropharyngeal airway
 - b. Oxygen therapy
 - c. CPAP (Continuous Positive Airway pressure)
 - d. Care of tracheostomy
 - e. Endotracheal extubation
2. Cardiopulmonary resuscitation, Basic cardiac life support, ECG
3. Monitoring of critically ill patients – clinically with monitors, capillaryrefill time (CRT) assessment of jaundice, ECG.
4. Gastric lavage
5. Assessment of critically ill patients

Identification & assessment of risk factors, Glasgow coma scale, and dolls eye movement, arterial pressure monitoring, cardiac output/pulmonary artery pressure monitoring, and detection of life threatening abnormalities
6. Admission & discharge of critically ill patients
7. Nutritional needs – gastrostomy feeds, pharyngeal feeds, jejunostomyfeeds, TPN, formula preparation & patient education.
8. Assessment of patient for alteration in blood sugar levels monitoring blood sugar levels periodically & administering insulin periodically.
9. Administration of drugs: IM, IV injection, IV cannulation & fixation of infusion pump, calculation of dosages, use of insulin syringes/ tuberculin, monitoring fluid therapy, blood administration.
10. Setting up dialysis machine and starting, monitoring and closing dialysis
11. Procedures for prevention of infections:

Hand washing, disinfection & sterilization surveillance, and fumigation universal precautions.
12. Collection of specimen.
13. Setting, use & maintenance of basic equipment, ventilator, O2 analyzer, monitoring equipment, transducers, defibrillator, infusion& syringe pumps, centrifuge machine.

MEDICAL SURGICAL NURSING- ONCOLOGY NURSING

Placement : II Year

Hours of
Instruction Theory :
150 hours
Practicals : 950
hours Total : 1100
hours

Course Description

This course is designed to assist students in developing expertise and in-depth understanding in the field of oncology Nursing. It will help students to develop advanced skills for nursing intervention in various oncological conditions. It will enable the student to function as oncology nurse practitioner/specialist and provide quality care. It will further enable the student to function as educator, manager, and researcher in the field of oncology nursing

Objectives

1. Explain the prevention, screening and early detection of cancer
2. Describe the epidemiology, etiology, pathophysiology and diagnostic assessment of oncological disorders of various body systems
3. Describe the psychosocial effects of cancer on patients and families.
4. Demonstrate skill in administering/assisting in various treatment modalities used for patients with cancer
5. Apply nursing process in providing holistic care to patients with cancer.
6. Apply specific concepts of pain management
7. Appreciate the care of death and dying patients and value of bereavement support.
8. Describe the philosophy, concept and various dimensions of palliative care
9. Appreciate the role of alternative systems of medicine in care of cancer patients
10. Appreciate the legal & ethical issues relevant to oncology nursing
11. Recognize and manage Oncological emergencies
12. Counsel the patients with cancer and their families
13. Incorporate evidence based nursing practice and identify the areas of research in the field of oncology nursing
14. Recognize the role of oncology nurse practitioner as a member of oncology team
15. Collaborate with other agencies and utilize resources in caring for cancer patients.

16. Teach and supervise nurses and allied health workers.
17. Design a layout and develop standards for management of oncology units/hospitals and nursing care.

Content outline

Unit	Hours	Content
I	4	Introduction ❑ Epidemiology-Incidence, Prevalence – Global, National, State and Local ❑ Disease burden, concept of cancer, risk factors ❑ Historical perspectives ❑ Trends and issues ❑ Principles of cancer management ❑ Roles and responsibilities of oncology nurse
II	5	The Nature of Cancer ❑ Normal cell biology ❑ The Immune system ❑ Pathological and pathophysiological changes in tissues • Biology of the cancer cell • Clone formation Transformation • Tumor stem lines • Structure of a solid tumor • Products produced by the tumor • Systemic effects of tumor growth
III	4	Etiology of Cancer ❑ Carcinogenesis, ❑ Theories of cancer causation ❑ Risk factors ❑ Carcinogens – genetic factors, chemical carcinogens, radiation, viruses, Immune system failure, rapid tissue proliferation ❑ Hormone changes, diet, emotional factors.
IV	10	Diagnostic Evaluation ❑ Health assessment: History taking, physical examination, ❑ Staging and grading of tumors, ❑ TNM Classification ❑ Common diagnostic tests • Blood investigation: Haematological, Bio-chemical, Tumormarkers, Hormonal assay • Cytology: Fine needle aspiration cytology (FNAC) • Histopathology: Biopsy • Radiological assessment: MRI, Ultrasound, Computed tomography, Mammography, Positron emission tomography (PET), Radio nuclide imaging, Functional metabolism imaging • Endoscopies Nurses responsibilities in diagnostic measures

Unit	Hours.	Content
V	10	Levels of prevention and care ❑ Primary prevention – Guidelines for cancer detection, general measures, Warning signs of cancer, ❑ Self examination-Oral, Breast, Testicular ❑ Secondary prevention – early diagnosis. ❑ Screening ❑ Tertiary prevention – disability limitation, ❑ Rehabilitation :Mobility , Speech, Bowel and bladder, Ostomies etc ❑ Patient and family education, ❑ Discharge instruction, follow-up care and use of community resources.

VI	25	Cancer Treatment Modalities and Nurse's Role ❑ <i>Surgery</i> • Principles of surgical oncology • Current surgical strategy, • Determining surgical risk • Special surgical techniques • Pre-intra-postoperative nursing care • Acute and chronic surgical complications • Future directions and advances ❑ <i>Chemotherapy</i> • Principles and classification of chemotherapeutics • Pharmacology of antineoplastic drugs- Mechanism of action, Absorption, protein binding, Bio-transformation, excretion, common side effects, drug toxicity • Calculating drug doses, • Therapeutic response to chemotherapy-Tumor variables, drug resistance, • Safety precautions ❑ <i>Radiation Therapy</i> • Physics of radiotherapy • Types of ionizing rays • Radiation equipments: Linear accelerator, cobalt, Implants, Isotopes, • Types of therapies: Oral, Brachy therapy, tele therapy, selectron therapy • Effects of radiation on the body tissue, • Radiation biology – cell damage hypoxic cells, alteration of tumor kinetics. • Approaches to radiation therapy – • External radiotherapy • Internal radiotherapy – unsealed, • Sealed sources. • Effectiveness of radiotherapy-Radiosensitivity, treatment effects • Complications of radiotherapy • Radiation safety: Standards of Bhabha Atomic Research Centre (BARC)

Unit	Hours.	Content
		❑ Bone Marrow Transplantation /Stem Cell Transplantation • Types, indications, transplantation procedure, complications and nursing management • Types and donor sources • Preparation and care of donor and recipient • Bone marrow bank • Legal and ethical issues ❑ Immunotherapy (Biotherapy) • Concepts and principles • Classification of agents • Treatment and applications ❑ Gene Therapy • Current Concepts and practices ❑ Alternative and Complementary Therapies • Current practices
VII	10	❑ Pain management:- Theories, types and • Nature of cancer pain • Pathophysiology of pain • Pain threshold ❑ Assessment of pain • Principles of cancer pain control • Pharmacological: Opioid and non-opioid analgesic therapy • Patient controlled analgesia(PCA) • Other invasive techniques of pain control • Recent developments in Cancer pain ❑ Non- Pharmacological pain relief technique- • Complementary therapies(Music, massage, meditation,relaxation techniques, biofeed back etc) • Psychological intervention in pain control • Alternative system of medicines Role of nurse
VIII	5	Palliative care ❑ Definition and scope, philosophy ❑ Concept and elements of palliative care ❑ Global and Indian perspective of palliative care ❑ Quality of life issues ❑ Communication skill ❑ Nursing perspective of palliative care and its elements ❑ Home care ❑ Hospice care Role of nurse in palliative care

Unit	Hours.	Content
IX	2	❑ Infection control: • Process of infection, risk of hospitalization, nosocomial infections- prevention and control of infection in acute, longterm care facility and community based care • Standard safety measures
X	30	Nursing Care of Patients With Specific Malignant Disorders ❑ Malignancies of G.I. system-oral, oesophagus, stomach, rectal,liver & pancreas, care of ostomies/stoma ❑ Respiratory malignancies ❑ Genito urinary system malignancies- prostate Bladder, renaltesticular malignancies, ❑ Gynecological malignancies-cervix, uterus, ovary ❑ Hematological malignancies-Lymphomas, Leukemias. ❑ Malignancies of musculoskeletal system ❑ Endocrine malignancies ❑ Skin ❑ Head and Neck -brain tumors ❑ Other malignancies – Breast cancer, AIDS related Malignancies (Kaposi's Sarcoma)
XI	10	Paediatric malignancies ❑ Leukemia, Lymphoma, Neuro- blastoma ❑ Wilm's tumor, Soft tissue sarcoma, Retinoblastoma ❑ Nursing Management of children with Paediatric Malignancies
XII	15	Nursing Management of Physiological Conditions and SymptomsOf Cancer Patient ❑ <u>Nutrition</u>: - effects of cancer on nutritional Status and its consequences:-Anemia, Cachexia, Xerostomia, mucositis, Dysphagia , nausea and vomiting, constipation, diarrhoea, electrolyte imbalances, taste alterations ❑ Impaired mobility: Decubitus ulcer, pathologic fractures, thrombophlebitis, pulmonary embolism, contractures, footdrop Other symptoms ❑ Dyspepsia & hiccup, dyspnoea ❑ intestinal obstruction, ❑ Fungating wounds ❑ Anxiety & depression, insomnia ❑ Lymph edema Impact of cancer on sexuality: ❑ Effects of radiotherapy/ chemotherapy/surgery on sexuality of thecancer patient ❑ Nursing management of cancer patients experiencing sexualdysfunction ❑ Sexual counseling

Unit	Hour s.	Content
XIII	10	Cancer Emergencies ❑ Disseminated intravascular coagulation(DIC), ❑ Malignant pleural effusion ❑ Neoplastic cardiac tamponade and septic shock spinal cordcompression ❑ Superior venacava syndrome ❑ Metabolic emergency: hyper and hypo calcemia ❑ Surgical emergency ❑ Urological emergency ❑ Hemorrhage ❑ Organ obstruction ❑ Brain metastasis ❑ Nurses role in managing oncologic emergencies
XIV	8	Psycho-Social Aspects of Nursing Care ❑ Psychological responses of patients with cancer ❑ Psychosocial assessment – ❑ Crisis intervention, coping mechanisms ❑ Stress management, spiritual/cultural care and needs ❑ Counseling: individual and family ❑ Maximizing quality of life of patient and family Ethical, moral and legal issues- ❑ End of life care ❑ Grief and grieving process ❑ Bereavement support ❑ Care of Nurses who care for the dying.
XV	2	Layout and Design of an oncology institution/ ward, OPD, chemotherapy unit, Bone marrow transplantation unit, Pain clinic etc ❑ Practice Standards of oncology nursing • Policies and Procedures ❑ Establishing Standing orders and Protocols Quality Assurance Programme in oncology units ❑ Nursing audit

Clinical Experience

S. No.	Deptt./ Unit	No. of Week	Total Hours
1	Medical Oncology ward	6	180 Hours
2	Surgical Oncology ward	6	180 Hours
3	Bone marrow transplantation Unit	2	60 Hours
4	Operation Theatre	2	60 Hours
5	Radiotherapy Unit	2	60 Hours
6	Chemotherapy Unit	4	120 Hours
7	Out patient department and pain clinic	2	60 Hours
8	Pediatric Oncology ward	2	60 Hours
9	Palliative Care ward	2	60 Hours
10	Community oncology	2	60 Hours
11	Hospice	1	30 Hours
12	Other field visits	1	30 Hours
	Total	32 Weeks	960 Hours

Procedures Observed

1. CT Scan
2. MRI
3. PET Scan(Positron Emission Tomography)
4. Ultra sound
5. Mammography
6. Radio Nuclide Imaging
7. Bone Scan
8. Thyroid Function Test
9. Functional and Metabolic Imaging
10. Transportation of radioactive materials
11. Others

Procedures Assisted

1. IV cannulation – Open method
2. Chemotherapy
3. Radiotherapy – Brachytherapy – Low Density Radiation, High Density Radiation.
4. Interstitial implantation
5. Bio-therapy and Gene therapy
6. Teletherapy – Treatment planning
7. Bone marrow aspiration and biopsy
8. Biopsy – tissue
9. FNAC – Fine Needle Aspiration Cytology and biopsy

10. Advance Cardiac life support
11. Endotracheal intubation
12. Defibrillation Ventilation
13. Tracheostomy
14. Thoracentesis
15. Paracentesis
16. Lumbar Puncture
17. Arterial Blood Gas
18. Nerve Block
19. Chest tube insertion
20. Intercostal drainage
21. CVP monitoring

Procedure Performed

1. Screening for cancer
2. Assessment of pain
3. Assessment of Nutritional status
4. Care of Tracheostomy
5. Endotracheal intubation
6. Gastric gavage
7. Pap smear
8. IV cannulation
9. Care of surgical flaps
10. Care of ostomies
11. Blood transfusion and component therapy
12. Counseling
13. Practice standard safety measures
14. Care of dead body and mortuary formalities

Other procedures

(As per the institutional protocol):

1. Alternative therapies

MEDICAL SURGICAL NURSING- NEUROSCIENCES NURSING

Placement : II Years

Hours of
Instruction Theory
– 150 Hours
Practical- 950
Hours Total : 1100
Hours

Course Description

This course is designed to assist students in developing expertise and in-depth knowledge in the field of neurology and neurosurgical Nursing. It will help students to develop advanced skills for nursing intervention in caring for patients with neurological and neurosurgical disorders. It will enable the student to function as neuroscience nurse practitioner/specialist. It will further enable the student to function as educator, manager and researcher in the field of neurology and neurosurgical Nursing.

Objectives

At the end of the course the students will be able to

1. Appreciate trends and issues related to neurology and neurosurgical Nursing.
2. Review the anatomy and physiology of nervous system
3. Describe the epidemiology, etiology, pathophysiology and diagnostic assessment of patients with neurological and neurosurgical disorders
4. Perform neurological assessment and assist in diagnostic procedures
5. Describe the concepts and principles of neuroscience nursing
6. Describe the various drugs used in neurosciences and nurses responsibility
7. Assist in various therapeutic and surgical procedures in neuroscience nursing
8. Demonstrate advance skills/competence in managing patients with neurological and neurosurgical disorder following nursing process approach
9. Identify psychosocial problems of patients with disabilities and assist patients and their family to cope with emotional distress, spiritual, grief and anxiety
10. Participate in preventive, promotive and rehabilitative services for neurological and neurosurgical patients.
11. Explain the legal and ethical issues related to brain death, organ transplantation and practice of neuroscience nursing
12. Incorporate evidence based nursing practice and identify the areas of research in the field of neuroscience nursing

13. Organise and conduct inservice education program for nursing personnel.
14. Develop standards of care for quality assurance in neuroscience nursing practice
15. Identify the sources of stress and manage burnout syndrome among health care providers.
16. Teach and supervise nurses and allied health workers.
17. Plan and develop physical layout of neuro intensive care unit

Course Content

Unit	Hours	Content
I	5	Introduction ❑ Introduction to neuroscience(neurological and neurosurgical)nursing • History-Development in neurological and neurosurgical nursing, Service & education • Emerging trends and issues in neurology and neuro surgeryand its implication to nursing. • neurological and neurosurgical problems – • Concepts, principles and nursing perspectives • Ethical and legal issues • Evidence based nursing and its application in neurological andneurosurgical nursing
II	5	Epidemiology ❑ Major health problems- ❑ Risk factors associated with neurological conditions- Hereditary, Psychosocial factors, smoking, alcoholism, dietary habits, culturaland ethnic considerations, occupational and infections. ❑ Health promotion, disease prevention, life style modification andits implications to nursing Alternate system of medicine/complementary therapies
III	10	Review of Anatomy and physiology ❑ Embryology ❑ Structure and functions of Nervous system- CNS, ANS, cereberalcirculation , cranial and spinal nerves and reflexes, motor and sensory functions ❑ Sensory organs

Unit	Hours	Content
IV	15	Assessment and diagnostic measures □ Assessment • History taking • Physical assessment, psychosocial assessment • Neurological assessments, Glasgow coma scale interpretation & its relevance to nursing. • Common assessment abnormalities □ Diagnostic measures • Cerebro spinal fluid analysis • Radiological studies-Skull and spine X-ray Cerebral Angiography, CT Scan, Single Photon Emission Computer Tomography(SPECT), MRI (Magnetic Resonance Imaging), MRA, MRS, Functional MRI, Myelography, PET (Positron Emission Test), Interventional radiology. • Electorgraphic studies- Electro encephalo graphy, MEG, EMG, video EEG, • Nerve conduction studies-Evoked potentials, visual evoked potentials, brain stem auditory evoked potentials, somatosensory evoked potentials • Ultrasound studies-Carotid duplex, transcranial Doppler sonography, • Immunological studies • Biopsies – muscle, nerve and Brain. Interpretation of diagnostic measures Nurse's role in diagnostic tests
V	5	Meeting Nutritional needs of neurological patients □ Basic nutritional requirements □ Metabolic changes following injury and starvation □ Nutritional assessment □ Common neurological problems that interfere with nutrition and strategies for meeting their nutritional needs □ Special metabolic and electrolyte imbalances □ Chronic fatigue syndrome
VI	5	Drugs used in neurological and neurosurgical disorders □ Classification □ Indications, contraindications, actions and effects, toxic effects Role of nurse

Unit	Hours	Content
VII	10	Traumatic conditions. □ Causes, pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis, Management: medical, surgical and Nursing management of • Cranio cerebral injuries. • Spinal & Spinal cord injuries. • Peripheral nerve injuries. • Unconsciousness
VIII	10	Cerebro vascular disorders. □ Causes, pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis , Management: medical, surgical and Nursing management of • Stroke & arterio venous thrombosis. • Haemorrhagic embolus. • Cerebro vascular accidents. • Intracranial aneurysm. • Subarchnoid Haemorrhage. • Arterio venous fistula. • Brain tumours □ Diseases of cranial nerves;Trigiminal neuralgia, Facial palsy, Bulbar palsy.
IX	10	Degenerating and demyelinating disorders □ Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis , Management: medical, surgical and Nursing management of • Motor neuron diseases. • Movement disorders- Tics, dystonia, chorea, wilson's disease,essential tremors • Dementia. • Parkinson's disease. • Multiple sclerosis. • Alzemier's
X	10	Neuro infections □ Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis , Management: medical, surgical and Nursing management of Neuro infections • Meningitis-types • Encephalitis. • Poliomyelitis. • Parasitic infections. • Bacterial infections • Neurosyphilis. • HIV & AIDS. • Brain abscess.

Unit	Hours	Content
XI	10	Paroxysmal disorders. □ Causes, pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis , Management: medical, surgical and Nursing management of • Epilepsy and seizures. • Status epilepticus. • Syncope. • Menier's syndrome. • Cephalgia.
XII	10	Developmental disorders. □ Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis , Management: medical, surgical and Nursing management of • Hydrocephalus. • Craniosynostosis. • spina bifida- Meningocele, Meningomyelocele encephalocele • syringomyelia. • Cerebro vascular system anomalies. • Cerebral palsies. • Down's syndrome
XIII	10	Neuro muscular disorders. □ Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis , Management: medical, surgical and Nursing management of • Polyneuritis – G B Syndrome. • Muscular dystrophy. • Myasthenia gravis. • Trigeminal neuralgia. • Bell's palsy. • Menier's disease • Carpal tunnel syndrome • Peripheral neuropathies
XIV	5	Neoplasms – surgical conditions. □ Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis , Management: medical, surgical and Nursing management of • Space occupying lesions -types • Common tumors of CNS,
XV	5	Other disorders □ Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis , Management: medical, surgical and Nursing management of □ Metabolic disorders- diabetes, insipidus, metabolicencephalopathy □ Sleep disorders □ Auto immune disorders- multiple sclerosis, inflammatory myopathies

Unit	Hours	Content
XVI	10	Neuro emergencies ❑ Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis , Management: medical, surgical and Nursing management of • Increased intracranial pressure • Unconscious • Herniation syndrome • Seizures • Severe head injuries • Spinal injuries • Cerebro vascular accidents
XVII	5	Rehabilitation. ❑ Concept and Principles of Rehabilitation. ❑ Factors affecting quality of life and coping ❑ Rehabilitation in acute care setting, and following stroke, head injury and degenerative disorders of brain ❑ Physiotherapy. ❑ Counselling ❑ Care giver's role Speech & Language.-Neurogenic communication disorders, Speechtherapy
XVIII	5	Ethical and legal issues in neuroscience nursing ❑ Brain death and organ transplantation ❑ Euthanasia ❑ Negligence and malpractice ❑ Nosocomial infections
XIX	5	❑ Quality assurance in neurological nursing practice ❑ Role of advance practitioner in neurological nursing ❑ Professional practice standards ❑ Quality control in neurologic nursing ❑ Nursing audit ❑ Neuro ICU • Philosophy, aims and objectives • Policies, staffing pattern, design and physical plan of neuro ICU • Team approach, functions • Psychosocial aspects in relation to staff and clients of neuroICU, • In-service education

Practical

Total = 960 Hours¹

Week = 30 Hours

S.No.	AREA OF POSTING	No. of Week	Total Hours
1	O.P.D.	2	60
2	Casualty	2	60
3	Diagnostics	2	60
4	Neuro psychiatry	1	30
5	Neuro Medical wards	4	120
6	Paediatric Neuro ward	2	60
7	Neuro surgical wards	4	120
8	Head Injury ward	3	90
9	ICU- neuro medicine	4	120
10	I.C.U.- neuro surgical	4	120
11	Rehabilitation	2	60
12	Operation Theatre	2	60
	Total	32 Weeks	960 Hours

ESSENTIAL NEURO NURSING SKILLS

I. Procedures Observed

1. CT scan
2. MRI
3. PET
4. EEG
5. EMG
6. Sleep pattern studies/Therapy
7. Radiographical studies
8. Neuro surgeries
9. Nerve conduction studies
10. Ultrasound studies
11. Any other

II. Procedures Assisted

1. Advanced Cardiac life support
2. Lumbar Puncture
3. Biopsies – muscle, nerve and Brain
4. Arterial Blood Gas
5. ECG Recording
6. Blood transfusion
7. IV cannulation – open method

8. Endotracheal intubation
9. Ventilation
10. Tracheostomy
11. ICP monitoring
12. Gama Knife
13. Cerebral angiography
14. Myelography
15. Neuro surgeries

III. Procedures Performed:

1. Airway management
 - a. Application of Oro Pharyngeal Airway
 - b. Care of Tracheostomy
 - c. Conduct Endotracheal Intubation
 - d. use of AMBU bag, artificial respirators
 - e. Setting of Ventilators and Care of patients on ventilators
2. Cardio Pulmonary Resuscitation -Defibrillation
3. Neurological assessment -Glasgow coma scale
4. Gastric Lavage
5. IV Cannulation
6. Administration of emergency IV Drugs, fluid
7. Care of patients with incontinence, bladder trainingCatheterization
8. Care of patients on traction related to the neurological conditions
9. Blood Administration.
10. Muscle strengthening exercises
11. Guidance and counseling
12. Monitoring – management and care of monitors.

MEDICAL SURGICAL NURSING- NEPHRO- UROLOGY NURSING

Placement : II Year

Hour of
Instruction Theory :
150 Hours Practical
: 950 Hours Total :
1100 Hours

Course Description

This course is designed to assist students in developing expertise and in-depth understanding in the field of Nephro and urological Nursing. It will help students to develop advanced skills for nursing intervention in various nephro and urological conditions. It will enable the student to function as nephro and urology nurse practitioner/specialist and provide quality care. It will further enable the student to function as educator, manager, and researcher in the field of nephro and urology nursing

Objectives

At the end of the course the students will be able to:

1. Appreciate trends and issues related to **nephro and urological** nursing
2. Describe the epidemiology, etiology, pathophysiology and diagnostic assessment of **nephro and urological** conditions
3. Perform physical, psychosocial & spiritual assessment
4. Assist in various diagnostic, therapeutic and surgical interventions
5. Provide comprehensive nursing care to patients with **nephro and urological conditions**
6. Describe the various drugs used in **nephro and urological** conditions and nurses responsibility
7. Demonstrate skill in handling various equipments/gadgets used for patients with **nephro and urological** conditions
8. Appreciate team work & coordinate activities related to patient care.
9. Practice infection control measures.
10. Identify emergencies and complications & take appropriate measures
11. Assist patients and their family to cope with emotional distress, grief, anxiety and spiritual needs
12. Discuss the legal and ethical issues in **nephro and urological** nursing
13. Identify the sources of stress and manage burnout syndrome among health care providers

14. Appreciate the role of alternative system of medicine in the care of patient
15. Incorporate evidence based nursing practice and identify the areas of research in the field of **nephro and urological** nursing
16. Teach and supervise nurses and allied health workers.
17. Design a layout of kidney transplant unit and dialysis unit
18. Develop standards of nephro urological nursing practice

Course Content

Unit	Hours	Content
I	5	Introduction ❑ Historical development: trends and issues in the field of nephro and urological nursing. ❑ nephro and urological problems ❑ Concepts, principles and nursing perspectives ❑ Ethical and legal issues ❑ Evidence based nursing and its application in nephro and urological nursing (to be incorporated in all the units)
II	5	Epidemiology ❑ Major health problems- urinary dysfunction, urinary tract infections, Glomerular disorders, obstructive disorders and other urinary disorders ❑ Risk factors associated with nephro and urological conditions- Hereditary, Psychosocial factors, smoking, alcoholism, dietary habits, cultural and ethnic considerations ❑ Health promotion, disease prevention, life style modification and its implications to nursing Alternate system of medicine/complementary therapies
III	5	Review of anatomy and physiology of urinary system ❑ Embryology ❑ Structure and functions ❑ Renal circulation ❑ Physiology of urine formation ❑ Fluid and electrolyte balance ❑ Acid base balance ❑ Immunology specific to kidney

IV	20	Assessment and diagnostic measures ❑ History taking ❑ Physical assessment, psychosocial assessment ❑ Common assessment abnormalities-dysurea, frequency, enuresis, urgency, hesitancy, hematuria, pain, retention, burning on urination, pneumaturia, incontinence, nocturia, polyurea, anuria, oliguria, ❑ Diagnostic tests-urine studies, blood chemistry, radiological procedures-KUB, IVP,nephrotomogram, retrograde pyelogram, renal arteriogram, renalultrasound, CT scan, MRI, cystogram, renal

Unit	Hours	Content
		scan, biopsy, endoscopy-cystoscopy, urodynamics studies-cystometrogram, urinary flow study, sphincter electromyography, voiding pressure flow study, videourodynamics, Whitaker study Interpretation of diagnostic measures Nurse's role in diagnostic tests
V	5	Renal immunopathy/Immunopathology ❑ General Concept of immunopathology ❑ Immune mechanism of glomerular vascular disease ❑ Role of mediator systems in glomerular vascular disease
VI	15	Urological Disorders and Nursing Management ❑ Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical , surgical and nursing management of ❑ Urinary tract infections- pyelonephritis, lower urinary tract infections, ❑ Disorders for ureters, bladder and urethra ❑ Urinary tract infections- ❑ Urinary dysfunctions- urinary retention, urinary incontinence, urinary reflux, ❑ Bladder disorders- neoplasms, calculi, neurogenic bladder, trauma, congenital abnormalities ❑ Benign prostatic hypertrophy (BPH) ❑ Ureteral disorders: ureteritis, ureteral trauma, congenital anomalies of ureters ❑ Urethral disorders- tumours, trauma, congenital anomalies of ureters,
VII	25	Glomerular disorders and nursing management ❑ Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical , surgical and nursing management of ❑ Glomerular nephritis- chronic, acute , nephritic syndrome ❑ Acute Renal failure and chronic renal failure. ❑ Renal calculi ❑ Renal tumours-benign and malignant ❑ Renal trauma ❑ Renal abscess ❑ Diabetic nephropathy ❑ Vascular disorders ❑ Renal tuberculosis ❑ Polycystic ❑ Congenital disorders ❑ Hereditary renal disorders

VIII	10	☐ Management of Renal emergencies ☐ Anuria ☐ Acute Renal failure ☐ Poisoning ☐ Trauma ☐ Urine retention

Unit	Hours	Content
		❑ Acute graft rejection ❑ Hematuria ❑ Nurse's role
IX	10	Drugs used in urinary disorders ❑ Classification ❑ Indications, contraindications, actions and effects, toxic effects ❑ Role of nurse
X	10	Dialysis ❑ Dialysis- Historical, types, Principles, goals • Hemodialysis- vascular access sites- temporary and permanent • Peritoneal dialysis ❑ Dialysis Procedures- steps, equipments, maintenance, ❑ Role of nurse- pre dialysis, intra and post dialysis ❑ Complications- ❑ Counseling ❑ patient education ❑ Records and reports
XI	10	❑ Kidney transplantation ❑ Nursing management of a patient with Kidney transplantation ❑ Kidney transplantations- a historical review ❑ Immunology of graft rejections ❑ The recipient of a renal transplant ❑ Renal preservations ❑ Human Leucocytic Antigen(HLA) typing matching and crossmatching in renal transplantation ❑ Surgical techniques of renal transplantations ❑ Chronic renal transplant rejection ❑ Complication after KTP: Vascular and lymphatic, Urological, cardiovascular, liver and neurological, infectious complication ❑ KTP in children and management of pediatric patient with KTP ❑ KTP in developing countries ❑ Results of KTP ❑ Work up of donor and recipient for renal transplant ❑ Psychological aspect of KTP and organ donations ❑ Ethics in transplants ❑ Cadaveric transplantation
XII	5	❑ Rehabilitation of patient with nephrological problems ❑ Risk factors and prevention ❑ Rehabilitation of patients on dialysis and after kidney transplant ❑ Rehabilitation of patients after urinary diversions ❑ Family and patient teaching

XIII	10	Pediatric urinary disorders ❑ Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical , surgical and nursing management of children with Renal Diseases -UTI, ureteral reflux, glomerulo nephritis, nephrotic syndrome infantile nephrosis, cystic kidneys, familial factors in renal diseases in childhood, Haemolytic uraemic

Unit	Hours	Content
		syndrome. Benign recurrent haematuria, nephropathy, wilms 'tumour
XIV	5	Critical care units- dialysis , KTP unit ❑ Philosophy, aims and objectives ❑ Policies, staffing pattern, design and physical plan of Dialysis andKTP units ❑ Team approach, functions ❑ Psychosocial aspects in relation to staff and clients of ICU, dialysisunit ❑ In-service education ❑ Ethical and legal issues
XV	5	❑ Quality assurance in nephrological nursing practice ❑ Role of advance practioner in nephrological nursing ❑ Professional practice standards ❑ Quality control in nephrological nursing ❑ Nursing audit

Practicals

**Total = 960
Hours1 Week =
30 Hours**

S. No.	Deptt./ Unit	No. of Week	Total Hours
1	Nephrology Ward	6	180 Hours
2	Pediatrics	2	60 Hours
3	Critical Care Unit	2	60 Hours
4	Urology Ward	6	180 Hours
5	Dialysis Unit	4	120 Hours
6	Kidney Transplantation Unit	2	60 Hours
7	URO OT	2	60 Hours
8	Emergency Wards	2	60 Hours
9	Uro Nephro OPDs	4	120 Hours
10	Diagnostic Labs	2	60 Hours
	Total	32 Weeks	960 Hours

Procedures observed

I. Procedures Observed

1. CT Scan
2. MRI
3. Radiographic studies
4. Urodynamics
5. Hemodialysis
6. Renal Surgeries

II. Procedures Assisted

1. Blood transfusion
2. I V cannulation therapy
3. Arterial Catheterization
4. Insertion of central line/cvp line
5. Connecting lines for dialysis
6. Peritoneal dialysis
7. Renal biopsy
8. Endoscopies- Bladder, urethra

III. Procedure Performed

1. Health assessment
2. Insertion of urethral and suprapubic catheters
3. Urine analysis

4. Catheterisation
5. Peritoneal dialysis
6. Bladder irrigation
7. Care of ostomies
8. Care of urinary drainage
9. Bladder training
10. Care of vascular access
11. Setting up dialysis machine and starting, monitoring and closing dialysis
12. Procedures for prevention of infections:
13. Hand washing, disinfection & sterilization surveillance, and fumigation universal precautions.
14. Collection of specimen.
15. Administration of drugs: IM, IV injection, IV cannulation & fixation of infusion pump, calculation of dosages, blood administration. monitoring -fluid therapy, electrolyte imbalance,
16. Nutritional needs , diet therapy & patient education.
17. Counselling

IV. OTHER PROCEDURES:

MEDICAL SURGICAL NURSING -ORTHOPEDIC NURSING

Placement : II
Year

Hours of
Instruction Theory :
150 Hours Practical
: 950 Hours Total :
1100 Hours

Course Description

This course is designed to assist students in developing expertise and in-depth understanding in the field of orthopedic nursing. It will help students to develop advanced skills for nursing intervention in various orthopedic conditions. It will enable the student to function as orthopedic nurse practitioner/specialist providing quality care. It will further enable the student to function as educator, manager, and researcher in the field of orthopedic nursing.

Objectives

At the end of the course the students will be able to:

1. Appreciate the history and developments in the field of orthopedic nursing
2. Identify the psycho-social needs of the patient while providing holistic care.
3. Perform physical and psychological assessment of patients with orthopedic conditions and disabilities.
4. Describe various disease conditions and their management
5. Discuss various diagnostic tests required in orthopedic conditions
6. Apply nursing process in providing care to patients with orthopedic conditions and those requiring rehabilitation.
7. Recognize and manage orthopedic emergencies.
8. Describe recent technologies and treatment modalities in the management of patients with orthopedic conditions and those requiring rehabilitation.
9. Integrate the concept of family centered, long term care and community based rehabilitation to patients with orthopedic conditions.
10. Counsel the patients and their families with orthopedic conditions
11. Describe various orthotic and prosthetic appliances
12. Appreciate the legal and ethical issues pertaining to patients with orthopedic conditions and those requiring rehabilitation.
13. Appreciate the role of alternative system of medicine in care of patients with orthopedic conditions

14. Incorporate evidence based nursing practice and identify the areas of research in the field of orthopedic nursing.
15. Recognize the role of orthopedic nurse practitioner and as a member of the orthopedic and rehabilitation team.
16. Teach orthopedic nursing to undergraduate students and in-service nurses.
17. Prepare a design and layout of orthopedic and rehabilitative units.

Course Content

Unit	Hours	Content
I	5	Introduction ❑ Historical perspectives – History and trends in orthopedic nursing ❑ Definition and scope of orthopedic nursing ❑ Anatomy and physiology of Musculo-skeletal system ❑ Posture, Body landmarks Skeletal system Muscular system. Nervous system - Main nerves ❑ Healing of - Injury, bone injury, ❑ Repair of ligaments ❑ Systemic response to injury ❑ Ergonomics, Body mechanics, biomechanical measures ❑ Orthopedic team
II	8	Assessment of Orthopedic Patient ❑ Health Assessment: History, physical examination- Inspection, palpation, movement, Measurement, muscle strength Testing. ❑ Diagnostic studies – Radiological studies, Muscle enzymes, serologic studies
III	10	Care of patients with devices ❑ Splints, braces, various types of plaster cast ❑ Various types of tractions, ❑ Various types of orthopedic beds and mattresses ❑ Comfort devices ❑ Implants in orthopedic ❑ Prosthetics and Orthotics

IV	15	Injuries <i>Trauma & Injuries</i> ❑ Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis, management, medical surgical and nursing management of : • Early management of Trauma • Fractures • Injuries of the ❑ Shoulder and arm ❑ Elbow, fore arm, wrist, hand ❑ Hip, thigh, knee, leg, ankle, foot ❑ Spine

Unit	Hours	Content
		❑ Head injury ❑ Chest injury • Polytrauma • Nerve injuries • Vascular injuries • Soft tissue injuries • Sports injuries • Amputation
V	8	Infections of Bones and Joints ❑ Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis, management, medical surgical and nursing management of : • Tuberculosis • Osteomyelitis • Arthritis • Leprosy
VI	5	Bone Tumours ❑ Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis, management, medical surgical and nursing management of: • Bone tumors – Benign, Malignant and metastatic • Different types of therapies for tumors
VII	10	Deformities ❑ Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis – medical surgical and nursing management of: Scoliosis, Kyphosis, Lordosis ❑ Congenital disorders: Congenital dislocation of hip (CDH), Dislocation of patella, knee, ❑ Varus and valgus deformities, ❑ Deformities of digits, ❑ Congenital torticollis. ❑ Meningocele, meningocele, spina bifida, ❑ Chromosomal disorders. ❑ Computer related deformities
VIII	5	Disorders of the spine ❑ Intervertebral disc prolapse, Fracture of the spine ❑ Low back disorder – Low back pain, PND, spinal stenosis, spondylosis

IX	5	Nutritional/Metabolic and Endocrine Disorders ❑ Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis, medical surgical and nursing managementof: • Rickets, • Scurvy, • Hyper vitaminosis A and D, • Osteomalacia,

Unit	Hours	Content
		• Osteoporosis • Paget's disease, • gout, • Gigantism, • Dwarfism, • Acromegaly. • Therapeutic diets for various orthopedic disorders
X	8	Neuro-Muscular Disorders: □ Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis, medical surgical and nursing management of: • Poliomyelitis, Cerebral Palsy • Myasthenia gravis • Spina bifida. • Peripheral nerve lesion, • Paraplegia, Hemiplegia, Quadriplegia. • Muscular dystrophy
XI	8	Chronic/Degenerative Diseases of Joints and Autoimmune Disorders: □ Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis – medical surgical and nursing management of: • Osteo Arthritis • Rheumatoid Arthritis • Ankylosing spondylitis. • Spinal disorders. • Systemic Lupus Erythematosus
XII	5	Orthopedic Disorders in Children: □ General and special consideration on pediatric orthopedics □ Genetic disorders □ Congenital anomalies □ Growth disorders □ Genetic counseling □ Nurses role in genetic counseling
XIII	5	Geriatric Problems □ Geriatric population, types of disabilities, causes, treatment and Management – Hospitalization, rest, physiotherapy, involvement of family members, social opportunities. □ Care at home – involvement of family and community, follow up care and rehabilitation

XIV	6	Pharmacokinetics ❑ Principles of drug administration ❑ Analgesics and anti inflammatory agents ❑ Antibiotics, Antiseptics, ❑ Drugs used in orthopedics and neuromuscular disorders ❑ Blood and blood components ❑ Care of drugs and nurses role

Unit	Hours	Content
XV	30	Nurses Role in Orthopedic Conditions ❑ Gait analysis ❑ Urodynamic studies ❑ Prevention of physical deformities ❑ Alteration of body temperature regulatory system and immunesystems ❑ Immobilization – cast, splints, braces and tractions ❑ Prevention and care of problems related to immobility ❑ Altered sleep patterns ❑ Impaired communication ❑ Self care and activities of daily living ❑ Bladder and bowel rehabilitation ❑ Sensory function rehabilitation ❑ Psychological reaction related to disabilities and disorders. ❑ Coping of individual and family with disabilities and disorders ❑ Maintaining sexuality ❑ Spirituality – A rehabilitative prospective Orthopedic Reconstructive Surgeries ❑ Replacement surgeries – Hip, Knee, Shoulder ❑ Spine surgeries ❑ Grafts and flaps surgery ❑ Deformity correction. Physiotherapy ❑ Concepts, Principles, purpose, • Mobilization – Exercises: types, re-education in walking: Crutch walking, wheel chair, Transfer techniques, • Types of gaits: Non-weight bearing, partial weight bearing, four point crutch, tripod, walking with sticks, calipers • Forms of therapies: Hydrotherapy, electrotherapy, wax bath, heat therapy, ice, helio therapy, radiant heat, • Chest physiotherapy
XVI	8	Rehabilitation ❑ Principles of rehabilitation, definition, philosophy, process, ❑ Various types of therapies ❑ Special therapies and alternative therapies ❑ Rehabilitation counseling ❑ Preventive and restorative measures. ❑ Community based rehabilitation (CBR) ❑ Challenges in rehabilitation. ❑ Role of the nurse in rehabilitation, ❑ Legal and ethical issues in rehabilitation nursing ❑ Occupational therapy

XVII	5	National Policies and Programmes ❑ National programmes for rehabilitation of persons with disability - National Institutes, artificial limbs manufacturing Corporation, District Rehabilitation Centers and their schemes ❑ Regional rehabilitation centers etc.

Unit	Hours	Content
		❑ Public policy in rehabilitation nursing ❑ The persons with disabilities act 1995, ❑ Mental rehabilitation and Multiple disabilities act 1992, ❑ The National Trust Rules 1999 and 2000 ❑ Rehabilitation Council of India ❑ Legal and ethical aspects in orthopedic nursing ❑ Rehabilitation health team and different categories of team members.
XVIII	4	Quality assurance ❑ Standards, Protocols, Policies, Procedures ❑ Nursing audit ❑ Staffing ❑ Design of orthopedic, physiotherapy and rehabilitation unit

Practicals

1. Clinical practice in Orthopedic, physiotherapy and Rehabilitation Units.
2. Application of tractions and plaster casts and removal of tractions and plaster casts and other appliances.
3. Apply Theories and Nursing Process in the management of patients with orthopedic conditions.
4. Provide various types of physical and rehabilitative therapies
5. Provide health education on related disease conditions.
6. Unit management and plan - designing

Clinical Experience

Total = 960 Hours

Week = 30 Hours

S. No.	Deptt./Unit	No. of Week	Total Hours
1	Orthopedic Ward	8	240 Hours
2	Orthopedic Operation theatre	4	120 Hours
3	Neurosurgical Ward	2	60 Hours
4	Orthopedic O.P.D.	4	120 Hours
5	Casualty/Emergency and Trauma	4	120 Hours
6	Rehabilitation Units	2	60 Hours
7	Physiotherapy Unit	4	120 Hours
8	Paediatric /paediatric surgery unit	2	60 Hours
9	Field Visit	2	60 Hours
	Total	32 Weeks	960 Hours

Procedures Observed

1. X Ray
2. Ultrasound
3. MRI
4. C T Scan/bone scan
5. Arthroscopy
6. Electrothermally – assisted capsule shift or ETAC (Thermalcapsulorrhaphy)
7. Fluroscopy
8. Electromyography
9. Myelography
10. Discography
11. Others

Procedures Assisted

1. Blood Transfusion
2. IV cannulation and therapy
3. Ventilation
4. Various types of tractions
5. Orthopedic surgeries – Arthrocentesis, Arthroscopy, Bone lengthening, Arthrodesis, grafting, Fractures fixation, reconstructive, reimplantation, replantation, spinal decompression, transplantation of bone, muscle or articular cartilage, autografting, allografting.
6. Injection – Intra articular, intra osseous.
7. Advance Life Support

Peocedures Performed

1. Interpretation of X ray films.
2. Application and removal of splints, casts, and braces.
3. Care of tractions – skin and skeletal traction, pin site care.
4. Cold therapy.
5. Heat therapy
6. Hydrotherapy
7. Therapeutic exercises
8. Use of TENS (Transcutaneous electrical nerve stimulation)
9. Techniques of transportation
10. Crutch walking, walkers, wheel chair.
11. Use of devices for activities of daily living and prevention of deformities.
12. Administration of drugs: IV injection, IV cannulation, and Blood transfusion.
13. Procedures for prevention of infections: disinfection and sterilization,surveillance, fumigation.
14. Special skin/ part preparations for orthopedic surgeries.
15. Surgical dressings – Debridement.
16. Bladder and bowel training

MEDICAL SURGICAL NURSING - GASTRO ENTEROLOGY NURSING

Placement : II
Year

Hours of Instruction
Theory : 150
hrs.Practical :
950 hrs.Total :
1100 hrs.

Course Description

This course is designed to assist students in developing expertise and in-depth understanding in the field of gastro enterology Nursing. It will help students to develop advanced skills for nursing intervention in various gastro enterology conditions. It will enable the student to function as gastro enterology nurse practitioner/specialist and provide quality care. It will further enable the student to function as educator, manager, and researcher in the field of gastro enterology nursing

Objectives

At the end of the course the students will be able to

1. Appreciate trends and issues related to gastro enterology nursing
2. Describe the epidemiology, etiology, pathophysiology and diagnostic assessment of gastrointestinal conditions
3. Participate in national health programs for health promotion, prevention and rehabilitation of patients with gastrointestinal conditions
4. Perform physical, psychosocial & spiritual assessment
5. Assist in various diagnostic, therapeutic and surgical procedures
6. Provide comprehensive care to patients with gastrointestinal conditions
7. Describe the various drugs used in gastrointestinal conditions and nurses responsibility
8. Demonstrate skill in handling various equipments/gadgets used for patients with gastrointestinal conditions
9. Appreciate team work & coordinate activities related to patient care.
10. Practice infection control measures.
11. Identify emergencies and complications & take appropriate measures
12. Assist patients and their family to cope with emotional distress, grief, anxiety and spiritual needs
13. Discuss the legal and ethical issues in GE nursing

14. Identify the sources of stress and manage burnout syndrome among health care providers
15. Appreciate the role of alternative system of medicine in care of patient
16. Incorporate evidence based nursing practice and identify the areas of research in the field of gastrointestinal nursing
17. Teach and supervise nurses and allied health workers.
18. Design a layout of Gastro enterology intensive care unit (GEICU) , livercare/transplant unit

Course Content

Unit	Hours	Content
I	5	Introduction ❑ Historical development: trends and issues in the field of gastro enterology. ❑ Gastro enterological problems ❑ Concepts, principles and nursing perspectives ❑ Ethical and legal issues ❑ Evidence based nursing and its application in gastrointestinal nursing(to be incorporated in all the units)
II	5	Epidemiology ❑ Risk factors associated with GE conditions- Hereditary, Psychosocial factors, smoking, alcoholism, dietary habits, cultural and ethnic considerations ❑ Health promotion, disease prevention, life style modification and its implications to nursing ❑ National health programmes related to gastro enterology ❑ Alternate system of medicine/complementary therapies
III	5	Review of anatomy and physiology of gastrointestinal system ❑ Gastrointestinal system ❑ Liver, biliary and pancreas ❑ Gerontologic considerations ❑ Embryology of GI system ❑ Immunology specific to GI system
IV	15	Assessment and diagnostic measures ❑ History taking ❑ Physical assessment, psychosocial assessment ❑ Diagnostic tests • Radiological studies:Upper GIT- barium swallow, lower GIT-Barium enema, • Ultra sound: • Computed tomography • MRI • Cholangiography: Percutaneous transhepatic Cholangiogram(PTC) • Magnetic Resonance Cholangio pancreatography (MRCP) • Nuclear imaging scans(scintigraphy) • Endoscopy

Unit	Hours	Content
		• Colonoscopy • Proctosigmoidoscopy • Endoscopic Retrograde Cholangio pancreatography (ERCP) • Endoscopic ultrasound • Peritonoscopy(Laproscopy) • Gastric emptying studies • Blood chemistries: Serum amylase, serum lipase • Liver biopsy • Miscellaneous tests:Gastric analysis, fecal analysis • Liver function tests: Bile formation and excretion, dye excretion test, Protein metabolism, haemostatic functions- prothrombin vitamin K production, serum enzyme tests,Lipid metabolism- serum cholesterol Interpretation of diagnostic measures Nurse's role in diagnostic tests

V	25	Gastro intestinal disorders and nursing management □ Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical , surgical and nursing management of • Disorders of the mouth: Dental caries, Peridontal disease, Acute tooth infection, Stomatitis, Thrush (moniliasis), Gingivitis, Leukoplakia, Inflammation of the parotid gland, Obstruction to the flow of saliva, Fracture of the jaw • Disorders of the oesophagus: Reflux oesophagitis, Oesophageal achalasia, Oesophageal varices, Hiatus hernia, Diverticulum • Disorders of the stomach and duodenum: Gastritis, Peptic ulcer, Dumping of the stomach, Food poisoning, idiopathic gastroparesis, Aerophagia and belching syndrome, Idiopathic cyclic nausea and vomiting, Rumination syndrome, Functional dyspepsia, Chronic Non specific (functional) abdominal pain • Disorders of the small intestine – Malabsorption syndrome – tropical sprue – Gluten – sensitive enteropathy (Coeliac disease) – Inflammatory diseases of intestines and abdomen,; appendicitis, Peritonitis, Intestinal obstruction, Abdominal TB, Gastrointestinal polyposis syndrome – Chronic inflammatory bowel disease, Ulcerative colitis, Crohn's disease – Infestations and infections – Worm infestations, Typhoid, Leptospirosis – Solitary rectal ulcer syndrome – Alteration in bowel elimination (diarrhoea, constipation, fecal impaction, fecal incontinence, Irritable bowel syndrome, Chronic idiopathic constipation, Functional diarrhoea) Anorectal Conditions: Hemorrhoids, Anal fissure, Anal fistula, Abscess, Strictures, Rectal prolapse, Pruritis ani, Perianal disease, Anal condylomas, Warts

Unit	Hours	Content
VI	15	Disorder of liver, pancreas gall bladder and nursing management ❑ Disorders of liver biliary tract : ❑ Viral Hepatitis – A, B, C, D & E ❑ Toxic hepatitis • Cirrhosis of liver, liver failure, Liver transplantation • Non cirrhotic portal fibrosis • Liver abscess,; • Parasitic and other cysts of the liver • Disorders of the Gall Bladder and Bile Duct: ❑ Cholecystitis ❑ Cholelithiasis ❑ Choledocholithiasis ❑ Disorders of the pancreas: Pancreatitis, ❑ Benign tumors of islet cells ❑ Disorders of the Peritoneum • Infections of the peritoneum ❑ Surgical peritonitis ❑ Spontaneous bacterial peritonitis ❑ Tuberculosis peritonitis ❑ Disorders of the Diaphragm • Diaphragmatic hernia • Congenital hernias • Paralysis of diaphragm • Tumors of the diaphragm ❑ Hiccups
VII	15	Gastro intestinal emergencies and nursing interventions ❑ Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical , surgical and nursing management of: • Esophageal varices, • Ulcer perforation, • Acute cholecystitis • Diverticulitis • Fulminant hepatic failure • Biliary obstruction • Bowel obstruction • Gastroenteritis • Intussusception • Acute intestinal obstruction, perforation • Acute pancreatitis • Cirrhosis of liver complications • Liver , spleen, stomach pancreatic, mesenteric, bowel and greater vessel injuries • Acute appendicitis /peritonitis • Acute abdomen • Food poisoning
VIII	15	❑ Congenital Anomalies of Esophagus • Esophageal atresia • Tracheo esophageal fistula

Unit	Hours	Content
		• Esophageal stenosis • Esophageal duplications • Dysphagia – Lusoria – aberrant right subclavian artery compressing esophagus • Esophageal rings – schalzkiring • Esophageal webs ❑ Congenital Anomalies of Stomach • Gastric atresia • Micro gastria • Gastric diverticulum • Gastric duplication • Gastric teratoma • Gastric volvulus • Infantile hypertrophic pyloric stenosis • Adult hypertrophic pyloric stenosis ❑ Congenital Anomalies of Duodenal • Duodenal Atresia or stenosis • Annular pancreas • Duodenal duplication cysts • Malrotation and mid gut volvulus ❑ Developmental anomalies of the intestine: • Abdominal wall defects (omphalocele and Gastroschisis) • Meckel's diverticulum • Intestinal atresia ❑ Hirschsprung's disease

IX	15	Pharmo Kinetics ❑ Drugs used in GIT ❑ Principles of administration ❑ Roles responsibilities of nurses ❑ Drugs in Peptic ulcer disease ❑ Proton Pump inhibitors ❑ H₂ Receptor Antagonists ❑ Cytoprotective Agents: ❑ Drugs used in Diarrhea ❑ Drugs used in constipation ❑ Drugs used in Inflammatory Bowel Disease ❑ Aminosaliclates ❑ Corticosteroids ❑ Immunomodulators ❑ chemotherapy ❑ Antibiotics ❑ Antiemetics: ❑ Anticholinergics ❑ Antihistaminics ❑ Anthelminthics ❑ Vitamin Supplements

Unit	Hours	Content
X	10	Nutrition and nutritional problems related to GI system ❑ Nutritional assessment and nursing interventions ❑ Therapeutic diets ❑ Adverse reactions between drugs and various foods ❑ Malnutrition- etiology , clinical manifestations and management ❑ Tube feeding, parenteral nutrition, total parenteral nutrition ❑ Obesity- etiology, clinical manifestations and management ❑ Eating disorders- anorexia nervosa, bulimia nervosa ❑ Recent advances in nutrition
XI	15	Malignant disorders of gastro intestinal system ❑ Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical , surgical, other modalities and nursing management of: • Malignancy of oral cavity ,Lip,Tongue,buccal mucosa,oropharynx, Salivary gland • Esophageal , Gastric , Carcinoma of bowel -Small bowel, Colorectal and Anal carcinoma, • Liver, biliary tract and Pancreatic carcinoma
XII	5	Administration and management of GE unit ❑ Design & layout ❑ Staffing, ❑ Equipment, supplies, ❑ Infection control; Standard safety measures ❑ Quality Assurance:-Nursing audit –records /reports, Norms,policies and protocols ❑ Practice standards
XIII	5	Education and training in GE care ❑ Staff orientation, training and development, ❑ In-service education program, • Clinical teaching programs

Practicals**Total = 960 Hours****1 Week = 30 Hours**

S.No.	Deptt./Unit	No. of Week	Total Hours
1	Diagnostic labs	2	60 Hours
2	Emergency and casualty	3	90 Hours
3	Liver transplant unit	1	30 Hours
4	GE Medical Ward	6	180 Hours
5	GE Surgical Ward	8	240 Hours
6	OT	2	60 Hours
7	ICU	4	120 Hours
8	Pediatric gastroenterology	2	60 Hours
9	Oncology	2	60 Hours
10	GE OPD	2	60 Hours
	Total	32 Weeks	960 Hours

Procedures Assisted

1. Endoscopy room – Upper G.I. Endoscopy (Diagnostic and therapeutic).
2. Sigmoidoscopy
3. Colonoscopy
4. Polypectomy
5. Endoscopic retrograde cholangio pancreatography (ERCP)
6. Liver biopsy
7. Percutaneous catheter drainage (PCD) of Pseudocyst pancreas
8. Abdominal paracentesis
9. Percutaneous aspiration of liver abscess
10. GE Lab : PT, HbsAg, Markers – A, B, C virus, CBP, ESR, Stool Test

Procedures Performed

1. History and Physical assessment
2. RT intubation / extubation / aspiration/suction
3. Gastric lavage and gavage
4. Bowel wash
5. Therapeutic Diets
6. Ostomy feeding
7. Stoma care
8. Monitoring vital parameters
9. Plan of inservice education programme for nursing staff and Class-IV employees
10. Counseling

Course outcomes (Cos)

CO1	Remember the basic concepts of medical surgical nursing
CO2	Understand the pathophysiology and management of cardiothoracic,ortho,oncology,critical care,neuro,nephrourology,emergency and disaster, ,gastro enterology.disorders
CO3	Analyze deviations from normal, able to provide appropriate Interventions.
CO4	Apply revised protocols to manage medical surgical emergencies.
CO5	Evaluate the outcomes of Nursing interventions and revisions made according to recent advancements.
CO6	Create new interventions/protocols to improve quality of nursing care.

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	2	2	1		2			2	2	2		2	1	2
CO2		2	2			1					2	1	2		2
CO3		3		1			2			1	2		2		2
CO4	2					1			1		1		2	2	2
CO5	1	2	2	2	2		2	2		2		2			
CO6		2	2	2	2		2	2		2		2	2	2	2

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

ELECTIVE COURSE

(19ECIECHOR06)- Interpretation of ECHO Reading

Introduction of the Course

Introduction: Ultrasound modality using high frequency sound wave to create images of heart.This course is well planned to create a knowledge among the students regarding the ECHO interpretation of normal and abnormal reading.

Course Objective and Summary

1. Review the anatomy and physiology of cardiac system.
2. List out the advantages and disadvantages of ECHO.
3. Describe the indications of ECHO

4. Explain the interpretation of ECHO.

Summary: Learning about ECHO and its interpretation will help the student to learn about cardiac functions in a distinct manner.

Course Outcomes (Cos)

CO1	Remember the systematic review of cardiology
CO2	Understand the importance of preparation of Patient for ECHO
CO3	Apply or implement the techniques of taking ECHO
CO4	Analyze and critique the ECHO readings.
CO5	Develop a healthy life style(based on Bloom's Taxonomy)
CO6	Create and conduct group/individual training programmes.

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	1	1	2	2	2	1	3	2	2	3	1	2	1
CO2	1	1	1	1	3	1	1	1	3	1	1	2	1	1	1
CO3	1	2	2	1	1	1	1	1	3	1	2	1	2	1	1
CO4	3	1	1	1	2	1	1	1	3	2	2	1	1	1	1
CO5	1	1	2	2	1	1	1	1	3	3	1	1	1	2	2
CO6	1	1	1	1	1	1	1	1	3	2	2	1	1	1	1

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

Content of the Course

Course Content

Alignment of topics of the courses with COs

Unit	Learning Objective	Content	Hrs	Alignment to COs
I	Introduction to anatomy and physiology of cardiac system.	Introduction to anatomy and physiology of cardiac system - Review of anatomy and physiology of heart - Systemic circulation - Normal and abnormal cardiac functions	T (10) P (3)	CO1 & CO2
II	Explain the important of ECHO	ECHO- Basic components - components, indications, procedures of ECHO - Types ✓ Transthoracic echocardiogram ✓ Transesophageal echocardiogram ✓ Intracardiac	T (10) P (5)	CO3 & CO6
III	Explain the interpretation of ECHO	ECHO Interpretation - Parasternal long axis view - Parasternal short axis view - Apical 4 chamber view - Apical 2 chamber views - Suprasternal view	T (10) P (2)	CO4 & CO5

Teaching- Learning Strategies

- (i) Lecture cum Discussion
- (ii) Seminar
- (iii) Lab – Demonstration
- (iv) Re- Demonstration
- (v) Assignments

Assessment Techniques of each topic of the course

S.No	Topic	Assessment Techniques
1.	Introduction to anatomy and physiology of cardiac system.	Short answer
2.	ECHO- Basic components	Short answers, Objective type, Return demonstration
3.	ECHO Interpretation	Short answers, Objective type, sample calculation

(19ECACM07)- Assessment of Cardiac Monitoring

Introduction of the Course

Introduction: This course is designed to provide nursing students with the skills required to care competently and safely for critically ill patient. It focuses on having the students expand their knowledge base and master critical care nursing psychomotor skills associated with assessment and provision of comprehensive nursing care for patient with acute life threatening conditions and attitudes through reflection in and on action in clinical settings. It also focuses on the application of immediate rapid and accurate nursing assessment and provision of quality nursing care according to priorities. It enable the students to provide comprehensive quality nursing care for critically ill patient with different body system alterations, with different types of invasive devices and with different types of machines encountered in critical care settings and to understand the critical care environment in which practice occurs in order to provide care for the critically ill patients in the different critical care settings. Nursing process is used as an approach of providing holistic patient care. Critical thinking, clinical judgment, decision making and team work are emphasized in this course.

Course Objective and Summary

- 1.** Demonstrate the ability to assess critically ill patients with the different invasive devices & machines and their families
- 2.** Provide comprehensive nursing care for the critically ill patients with the different acute and life threatening conditions and their families.
- 3.** Demonstrate the most commonly used Cardiac monitoring nursing procedures
- 4.** Demonstrate the routine care for the most commonly inserted invasive devices
- 5.** State the common needs / problems and nursing diagnosis for critically ill patient & their families.
- 6.** Describe the general care of critically ill patient & their families.
- 7.** Learn the most commonly used nursing diagnosis for critically ill patients
- 8.** Know the most commonly used drugs & infusion - The most commonly used invasive devices
- 9.** Demonstrate critical care nursing procedures
- 10.** Practice nursing case study on the most commonly acute and life threatening conditions encountered in critical care units

Summary: Learning about cardiac monitoring will help the students to operate cardiac monitors and its interpretation will help the student to learn about cardiac functions in a distinct manner.

Course Outcomes (Cos)

CO1	Remember the systematic review of cardiology
CO2	Understand the importance of cardiac monitors
CO3	Apply or implement the knowledge in operation of cardiac monitors
CO4	Analyze and critique the cardiac monitor results
CO5	Develop a healthy life style (based on Bloom's Taxonomy)
CO6	Create and conduct group/individual training programmes.

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	1	1		2	2				2			2	1
CO2	1		1	1		1	1	1	3	1	1			1	1
CO3	1		2	1		1		1	3	1	2	1		1	1
CO4	3		1	1	2	1		1	3	2	2	1	1	1	
CO5	1	1				1		1				1	1	2	
CO6	1	1	1	1	1	1	1	1	3	2	2	1	1	1	

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

Content of the Course

Course Content

Alignment of topics of the courses with COs

Unit	Learning Objective	Content	Hrs	Alignment to COs
I	Introduction to cardiac monitoring	Assessment of critically ill patient & its terminology Nursing care plan • Critical care nursing record & Reports for other units • Evaluation criteria • Respiratory assessment • Artificial airways • Suctioning (Use of ambu bag , Percussion & vibration , oxygen therapy & Inhalation therapy • Mechanical ventilation • Pulse oximeter & Capnogram • Arterial puncture & Arterial line • ABG interpretation • Chest tube	T (10) P (3)	CO1 & CO2
II	Explain the Clinical application of cardiac monitoring	• Clinical application of respiratory assessment, • Assessment of noninvasive & invasive respiratory devices and mechanical ventilator, • Exercises on patient's ABG interpretation. • Cardiovascular assessment (clinical revision) • ECG & Cardiac monitor, • ECG tracing analysis, • Central venous catheter & CVP measurement.	T (10) P (5)	CO3 & CO6
III	Practice in clinical care units	• Cardioversion & defibrillation • Pacemaker • Emergency cart & Emergency drugs • Drug dosage calculation • Advanced life support algorithms	T (10) P (2)	CO4 & CO5

		Assessment of nervous system and		

		other body systems • Nasogastric tube • Total parenteral nutrition • Gluco check • Urinary catheter • Recording and reporting • Clinical practice on IV infusion pump, syringe pump & enteral nutrition feeding pump		

Teaching- Learning Strategies

- (i) Lecture cum Discussion
- (ii) Seminar
- (iii) Lab – Demonstration
- (iv) Re- Demonstration
- (v) Assignments

Assessment Techniques of each topic of the course

S.No	Topic	Assessment Techniques
1.	Introduction to cardiac monitoring	Short answer
2.	Clinical application of cardiac monitoring	Short answers, Objective type, Return demonstration
3.	Practice in clinical care units	Short answers, Objective type, sample calculation

(19ECID08)- IMMUNODIAGNOSTICS

Introduction of the Course

Introduction: This course give information about immuno system.immuno diagnostics is a diagnostic methodology that uses an antigen-antibody reaction as their primary means of detection. The concept of using immunology as a diagnostic tool was introduced in 1960 as a test for serum insulin.

Course Objective and Summary

1. Define unique characteristics of Immune system related to anatomy and physiology of the Lymphocytes
2. Demonstrate understanding of normal Immune system
3. Recognize normal Defence Mechanism of Human Body
4. Identify common Changes of Antigen Antibody Reaction of Human body
5. Distinguish the values of Immunoglobulins

Summary: learning about of antigen antibody reaction of human body is essential.

Course Outcomes (Cos)

CO1	Remember the systematic review of normal Lymphocytes
CO2	Understand the normal Immune system
CO3	Recognize normal Defence Mechanism of Human Body
CO4	Distinguish Immunoglobulin values of the human body
CO5	Develop a Natural immunity by adopting healthy life style(based on Bloom's Taxonomy)
CO6	Create and conduct group/individual training programmes.

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	1	1	2	2		1		2				2	1
CO2	2		1		3	1		1		1	1	2	1		1
CO3	2				1	1		1		1	2	1	2		1
CO4	1				2	1	1	1	2	2	2	1	1		1
CO5	1		2				1	1	2				1	2	
CO6	1	1	1	1	1	1	1	1	2	2	2	1	1	1	

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

Part B- Content of the Course

Course Content

Alignment of topics of the courses with COs

Unit	Learning Objective	Content	Hrs	Alignment to COs
I	Introduction about Immunology	An overview of the course - Immune system - Types of immunity - Structure and function of Lymphocytes - Antigen Antibody Reaction	T (10) P (3)	CO1 & CO2& CO5
II	Explain about Immunodiagnostics G	The concept of using immunology as a diagnostic tool was introduced in 1960 as a test for serum insulin. v A second test was developed in 1970 as a test for thyroxine in the 1970s. It is well-suited for the detection of even the smallest of amounts of chemical substances. Antibodies specific for a desired antigen can be conjugated with a radiolabel, fluorescent label, or color-forming enzyme and are used as a "probe" to detect it. v Well known applications include pregnancy tests, immunoblotting, ELISA and immunohistochemical staining of microscope slides. v The speed, accuracy and simplicity of such tests has led to the development of rapid techniques for the diagnosis of disease, microbes and even illegal drugs in vivo. v Such testing is also used to distinguish compatible blood types	T (10) P (5)	CO3 & CO4
III	Explain about the Immuno globulins	Immuno globulins A,G,M,E	T (10) P (2)	CO4 & CO5

Teaching- Learning Strategies

1. Lecture cum Discussion
2. Seminar
3. Lab – Demonstration
4. Re- Demonstration
5. Assignments

Assessment Techniques of each topic of the course

S.No	Topic	Assessment Techniques
1.	Immune system overview of the course	Short answer
2.	Immunodiagnostics	Short answers, Objective type, Return demonstration
3.	Antigen Antibody Reaction	Short answers, Objective type, sample calculation

(19ECQA09)-QUALITY ASSURANCE

Introduction of the Course

INTRODUCTION: This course is designed to enable students to acquire in-depth understanding of management of hospital services, management of nursing services and nursing educational programmes. This is also designed to enable students to acquire understanding of the professional responsibilities, prospects and contribution to the growth of the Nursing profession. A nursing audit is a process of determining the quality of nursing care by reviewing clinical records made by healthcare professionals. It helps ensure consistent quality patient care and uncovers areas for improvement. Use this nursing audit checklist to confirm compliance with proper nursing documentation and check patient care provided to patients.

Course objective and summary:

1. Understand the principles and purpose of nursing audit
2. Understand the elements and process of nursing audit
3. Appreciate the management of nursing services in the hospital and community.
4. Apply the concepts, theories and techniques of organizational behaviour and human relations.
5. Develop skills in planning and organizing in service education
6. Understanding the management of nursing educational institutions

Summary: Learning about Nursing audit,, its scientific principles, and techniques will help the student to quality of nursing care..

Course Outcomes (Cos)

CO1	Remember the systematic review of Nursing audit
CO2	Understand the importance of quality of nursing care
CO3	Apply or implement the techniques of Quality assurance
CO4	Analyse the Merits, Demerits of Nursing Audit
CO5	Develop a Protocol for Nursing Procedure
CO6	Create Auditing Team to assess the Nursing Interventions of Patient Care, programmes.

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	1	1	1	2	2		1	3				1	2	1
CO2	3	1	1		3	1		1	3	1	1	2		1	1
CO3	3	2	2		1	1		1	3	1	2	1		1	1
CO4	3		1		2	1	1	1	3	2		1		1	1
CO5	3		2	2	1	1	1	1	3	3		1	1	2	2
CO6	3		1	1	1	1	1	1	3	2		1	1	1	1

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

Content of the Course

Course Content

Alignment of topics of the courses with COs

Unit	Learning Objective	Content	Hrs	Alignment to COs
I	Describe the management of nursing services in the hospital and community	Introduction • Purpose of nursing audit • Management of nursing services in the hospital • Planning Hospital & patient care units including ward	T (10) P (3)	CO1 & CO2

		• management Emergency and disaster management • Human resource management Recruiting, selecting, • deployment, retaining, promoting, superannuation Categories of nursing personnel including, job description of all levels Patients/ population classification system Patients/ population assignment		
II	Explain the nursing audit	• Methods to develop audit tool • Audit as a tool for quality control • Advantages of nursing audit • Disadvantages of nursing audit • Difference between audit and research	T (10) P (5)	CO3 & CO6
III	Explain about Nursing administration	• Nursing audit methods • Steps for conducting nursing audit • Digital nursing audit tools • Medical record audit check list • Formula calculations • Bolus infusion • Digital infusion • Formula feeding • Recording and reporting	T (10) P (2)	CO4 & CO5

Teaching- Learning Strategies

1. Lecture cum Discussion
2. Seminar
3. Lab – Demonstration
4. Re- Demonstration
5. Assignments

Assessment Techniques of each topic of the course

S.No	Topic	Assessment Techniques
1.	Introduction	Short answer
2.	Nursing procedures Asepsis and aseptic practice	Short answers, Objective type, Return demonstration
3.	quality assurance	Short answers, Objective type, sample calculation

(19ECOT10)- ORGAN TRANSPLANTATION

Introduction of the Course

Introduction: This programme aims at providing the knowledge and competences needed for the successful clinical evaluation of the potential recipients of solid organs, as well as the waiting list criteria, and pre and post transplant treatment.

Course Objective and Summary

*To improve participants knowledge on acute and chronic kidney, liver, pancreas, heart, lung failure and adequately assess referred patients for transplantation

*To provide participants with the knowledge of the principles of pre op preparation preparation of implant site as well as common intra operative challenges

*To identify and treat post op complications

*To provide knowledge on the surgical procedures and post operative care of living donors

*To improve short and long term follow up of the living donor

Summary: There is a need for formal training of organ transplant trainers to the level of conscious competence, which in turn will enable improved organ donation education of trainees.

Course Outcomes (Cos)

CO1	Remember the systematic review of tissues, organ
CO2	Understand the importance of organ transplant
CO3	Apply or implement the principles of pre op preparation , preparation of implant site
CO4	Analyse the complications, Post transplant infectious diseases
CO5	Develop a healthy life style(based on Bloom's Taxonomy)
CO6	Create and conduct group/individual training programmes.

Mapping / Alignment of Cos with PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	1	1	2		2	1				3	1	2	1
CO2	1				3		1	1	3	1	1	2	1	1	1
CO3	1	2	2	1	2		1	1	3				2		1
CO4	1	1		1	2	1				2	2	1	1		1
CO5	1	1		2	1	1	1	1	3	3	1	1	1		2
CO6	1	1		1	1	1	1	1	3	2	2	1	1	1	1

(Tick mark or level of correlation: 3-High, 2-Medium, 1-Low)

Content of the Course

Course Content

Alignment of topics of the courses with COs

Unit	Learning Objective	Content	Hrs	Alignment to COs
I	Introduction to organ transplant	• Introduction • Types of transplant • Organs and tissues transplanted • Advantages • Skin graft • Blood vessel graft • Bone graft • Bone marrow graft	T (10) P (3)	CO1 & CO2
II	Explain the types of organ transplantation	• Criteria for organ donation • Types of donor- living ,cadaver • Reasons for donation • Proliferation • Allo transplantation • Auto transplantation • histocompatibility	T (10) P (5)	CO3 & CO6
III	Enumerate the various aspect of organ transplant	• Organ transplantation act • Who guiding principles on human cell, organ transplantation tissue and organs • Organ transplantation drugs	T (10) P (2)	CO4 & CO5

		• Preparation and risks of transplantation • Ethical issues • Waitlist management • Post transplant infectious diseases		

Teaching- Learning Strategies

1. Lecture cum Discussion
2. Seminar
3. Lab – Demonstration (endoscopic assessment, gastro intestinal assessment)
4. Re- Demonstration
5. Assignments

Assessment Techniques of each topic of the course

S.No	Topic	Assessment Techniques
1.	Introduction	Short answer, Objective type
2.	The types of transplantation	Short answers, Objective type, Return demonstration, case scenario
3.	The various aspect of organ transplant	Short answers, Objective type, demonstration

Accredited 'A' Grade by NAAC
(Declared as Deemed -to -be University under section 3 of UGC Act, 1956)
SREE BALAJI COLLEGE OF PHYSIOTHERAPY
Constituent College of BIHER

MPT in Advanced Neurological Condition CBCS Syllabus 2019								
1 Semester = 20 Weeks Teaching/ 1 Week= 36 Hours								
MC Main Core, GE General Elective, CT Clinical Training, CD Dissertation, AE Allied Elective								
Sem	Course Code	Courses	Theory		Practical		Total Hours	Total Credits
			H	C	H	C		
I	19MPT1MC01	Basic Sciences	90	6	75	2	165	8
	19MPT1MC02	Research Methodology, Biostatistics and EBP	75	5	90	3	165	8
	19MPT1GE01	Molecular Biology	60	4	75	2	135	6
	19MPT1GE02	Kinesiotaping						
	19MPT1CT01	Clinical Training I					255	3
							720	25
II	19MPT2MC01	Movement Science	90	6	75	2	165	8
	19MPT2MC02	Advanced Therapeutics	75	5	90	3	165	8
	19MPT2GE01	Health Economics	60	4	75	2	135	6
	19MPT2GE02	Yoga for Physiotherapist						
	19MPT2CT02	Clinical Training II					255	3
							720	25
III	19MPT3AE01	Allied Elective in Neuro	160	10	200	8	360	18
	19MPT3CD01	Dissertation	30	2	75	2	105	4
	19MPT3CT03	Clinical Training III					255	3
							720	25
IV	19MPT4AE01	Elective in Advanced Neurology	160	10	200	8	360	18
	19MPT4CD02	Dissertation	30	2	75	2	105	4
	19MPT4CT04	Clinical Training IV					255	3
							720	25

SEMESTER I - COURSE OUTCOME, CO PO MAPPING

Course Code 19MPT1MC01	Course Name: Basic Science	Theory	Practical	Total Credit
	Total Contact Hours -165	6	2	8
	Prerequisite Course - BPT			
	Course Coordinator:			
Course Outcomes (CO)				
CO1	Demonstrate comprehensive understanding of electrophysiology.			
CO2	Acquire the knowledge in nutrition that is required to be practiced in health care system.			
CO3	Understand the basis of exercise and sports and its application in practice of physiotherapy.			
CO4	Learn and understand the skills of assessment for fitness evaluation and its application in practice of physiotherapy.			
CO5	Understand the concepts of applications of molecular biology and genetics.			

Mapping of Course Outcomes with Program Outcomes (1/2/3 indicates strength of correlation 3-High, 2 Medium, 1 Low)																	
CO/ PO/ PSO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3	3	3	3	3	3	3	2	3	3	2	3	3
CO2	3	3	3	3	3	3	2	3	3	3	3	3	3	3	3	2	3
CO3	3	3	3	3	3	3	3	3	3	2	3	3	3	2	3	3	3
CO4	3	3	3	3	3	3	2	3	3	3	3	3	3	3	3	3	2
CO5	3	3	3	3	3	3	3	3	3	2	3	3	2	3	3	3	3

BASIC SCIENCE

Syllabus

UNIT I : Cell- nerve – muscle – physiology – Electrophysiology- nerve conduction studies – electromyography – ENMS – kinesiological EMG – bioelectricity – evoked potentials

Molecular Biology & Genetics.

UNIT II : Nutrition – carbohydrates – minerals – protein – fat – metabolism – nature – malnutrition – source – role of exercises – supplement – obesity – evaluation – management

UNIT III : Exercise and sports physiology – energy transfer – source – utilisation – response of musculoskeletal – nervous – endocrine – cardiorespiratory system

UNIT IV : Aerobic – resisted – high intensity exercises – factors influencing – techniques – exercise physiology

UNIT V : Fatigue – fitness evaluation – training – various by techniques – gender – altitude

Reference

- 1 Exercise Physiology - Mc Ardle Katch, Katch.
2. Clinical Electromyography (Part I basic section only) Nerve Conduction Studies - Shin J.OH - Publisher Williams & Wilkins.
3. Clinical Neurophysiology - Nerve conduction, Electromyography and Evoked Potentials - UK Misra, Publisher B.I. Churchill Livingstone.
4. Manual of Nerve conduction velocity techniques - DE HSA, Raven Press, New York.
5. Electrodiagnosis in Diseases of Nerve & Muscle - Kimura FA Davis, Philadelphia

Journal

1. Journal of biomedical sciences
2. Bosnian journal of basic medical sciences
3. International journal of medical sciences
4. Clinical science
5. Internal journal of sciences: basic and applied research

Course Code 19MPT1MC02	Course Name: Research Methodology, Biostatistics and EBP	Theory	Practical	Total Credit
	Total Contact Hours -165	5	3	8
	Prerequisite Course - BPT			
	Course Coordinator:			
Course Outcomes (CO)				
CO1	Describe how research is undertaken, and its benefits.			
CO2	Differentiate between quantitative research and qualitative research.			
CO3	Select an appropriate study design based on research question.			
CO4	Identify ethical issues in research.			
CO5	Design a research proposal			

Mapping of Course Outcomes with Program Outcomes (1/2/3 indicates strength of correlation 3-High, 2 Medium, 1 Low)																	
CO/ PO/ PSO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	2	3	3	3	3	3	3	3	3	3	3	3	2	3
CO2	3	3	3	3	3	2	3	3	3	3	3	3	3	2	3	3	3
CO3	3	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2
CO4	3	3	3	3	3	3	3	3	3	2	3	3	3	2	3	3	3
CO5	3	3	3	3	3	3	3	2	3	3	3	3	3	3	3	2	3

RESEARCH METHODOLOGY, BIOSTATISTICS AND EBP

Syllabus

UNIT I : Ethics in physiotherapy research – phases of research – conceptual phase – concepts – variables – hypothesis – literature review

UNIT II : Empirical phase – design – survey – validity – data collection – observational method- data collection – observational method- biophysiologic measures – data analysis – descriptive statistics – inferential statistics

UNIT III : Interpretative phase – critiquing research – guidelines Guidelines for research publication – APA style – plagiarism – copy right laws

UNIT IV : Concepts of teaching and learning – curriculum – development – methods of teaching – evaluation – guidance and counselling – faculty professional and personal development in PT – Online learning & Evaluation.

UNIT V : PT education – Indian health care – physiotherapy practice growth – demand – India – abroad – department management – finance management – legal concepts – values – ethics .Marketing strategies, Finance in education , Medicolegal aspects.

Reference

Textbook

1. Research methodology- C. R. Kothari
2. Research Methods for Clinical therapist- Carolyn M. Hicks
3. Research design- John W. Creswell
4. Rehabilitation Research: Principles and Applications by Elizabeth Domholdt
5. Nursing Research- Polit & Hungler
6. Introduction to Biostatistics and Research Methods Rao P.S.S. Sundar & j. Richard
7. Research Methodology and Biostatistics - A Comprehensive Guide for Health Care Professionals, Suresh Sharma
8. Principles, Methods And Techniques Of Teaching Paperback – 1 January 2010
by J.C. Aggarwal (Author)

Websites

1. <https://www.researchgate.net/search>
2. <https://www.ncbi.nlm.nih.gov/pmc/>

Journals

1. Journal of Clinical Physiotherapy Research
2. Physiotherapy research International
3. International Journal Of Physiotherapy Research

Course Code 19MPT1GE01	Course Name: Molecular Biology	Theory	Practical	Total Credit
	Total Contact Hours -135	4	2	6
	Prerequisite Course - BPT			
	Course Coordinator:			
Course Outcomes (CO)				
CO1	Learning structural levels of nucleic acids- DNA and RNA and genome organization in prokaryotes and eukaryote and the concept of Gene and the gene architecture.			
CO2	Learning molecular events in the DNA replication and role of different enzymes and overview of the central dogma of life and various molecular events.			
CO3	Understanding the principles and applications of polymerase chain reaction(PCR) and molecular events of transcription and processing of transcripts, RNA editing.			
CO4	Molecular events of translation leading to protein synthesis and post translational modification and understanding the regulation of gene expression in prokaryotes using operon concept and eukaryotes.			
CO5	Learn the methods of DNA sequencing and various tools and techniques of molecular biology and learn about the molecular markers and its classification and applications.			

Mapping of Course Outcomes with Program Outcomes (1/2/3 indicates strength of correlation 3-High, 2 Medium, 1 Low)																	
CO/ PO/ PSO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3	3	3	3	3	3	2	3	3	2	3	3	3
CO2	3	3	3	3	3	3	3	3	2	3	3	3	3	3	3	2	3
CO3	3	3	2	3	3	3	3	3	3	3	2	3	3	2	3	3	3
CO4	3	3	3	3	3	3	2	3	3	3	3	3	3	3	2	3	3
CO5	3	3	3	3	3	3	3	3	3	3	2	3	3	3	3	3	2

MOLECULAR BIOLOGY FOR PHYSIOTHERAPIST

Syllabus

Unit I: Describe the chemical nature of, and major chemical processes within, the human body and key features of the metabolic processes by which cells generate energy.

Unit II : Evaluate how the body responds to changes in nutritional input and energy output, genetic information is used in the human body and explain how this impacts the health of an individual.

Unit III : Explain the similarities & differences between eukaryotic cells, prokaryotic cells and viruses.

Unit IV : Describe how the human body defends against infectious disease.

Unit V: Explore how pathogenic microbes cause disease, methods of infection control and evaluate their relative merits.

References

Text Book

1. Molecular and Cellular Biology, Sanghera Paul Dr
2. Cell and Molecular Biology, P. K. Gupta (Author)

Website:

1. <https://academic.oup.com/mbe>
2. <https://www.springer.com/>

Journal

1. <https://journals.asm.org/journal/mcb>
2. <https://bmcmolbiol.biomedcentral.com/>
3. <https://www.journals.elsevier.com/journal-of-molecular-biology>

Course Code 19MPT1GE02	Course Name: Kinesiotaping	Theory	Practical	Total Credit
	Total Contact Hours -135	4	2	6
	Prerequisite Course - BPT			
	Course Coordinator:			
Course Outcomes (CO)				
CO1	Describe the concepts of Kinesio Taping.			
CO2	Describe the unique qualities of the Kinesio Tex Tape.			
CO3	Utilize and demonstrate application skills in guided laboratory sessions.			
CO4	Demonstrate application skills during lab sessions.			
CO5	Practice the various cutting techniques and their clinical application.			

Mapping of Course Outcomes with Program outcomes (POs) (1/2/3 indicates strength of correlation 3-High, 2 Medium, 1 Low)																	
CO/ PO/ PSO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3	2	3	3	3	3	3	3	3	3	3	2	3
CO2	3	3	3	3	3	3	3	3	2	3	3	3	3	3	2	3	3
CO3	3	3	3	3	3	3	2	3	3	3	3	3	3	3	3	3	2
CO4	3	3	3	2	3	3	3	3	3	3	3	3	3	3	3	3	3
CO5	3	3	3	3	3	2	3	3	3	3	3	3	2	3	3	3	3

KINESIOTAPING

Syllabus

Unit I: Introduction- Theory- Basics of Application-Contra indications- Precautions

Unit II: K-Tape Material- Physiological & Therapeutic effects- Clinical Applications

Unit III: Types of Application- Stretch

Unit IV : Various fields- Sports- Pregnancy- orthopedics, etc.

Unit V : K-Taping research- Evidences-Future

References:

1. Kinesiology Taping For Rehab And Injury Prevention - Kim Aliana
2. Practical Guide to Kinesiology Taping for Injury Prevention and Common Medical Conditions, Gibbons John
3. NeuroMuscular taping -Edi Ermes Usa, David Blow
4. Kinesiology Taping: The Essential Step-by-step Guide - Langendoen, John And Sertel, Karin

Website :

1. <https://kinesiotaping.com/>
2. <https://www.k-taping.com/en/>

Course Code 19MPT1CT01	Course Name: Clinical Training I	Total Credit
	Total Contact Hours - 255	3
	Prerequisite Course - BPT	
	Course Coordinator:	
Course Outcomes (CO)		
CO1	Explain the components of basic assessment for a patient.	
CO2	List the impairments resulting in functional limitation and participation restriction.	
CO3	Demonstrate clinical observatory skill and the bedside manners.	
CO4	Understanding of policy of the inpatient service and outpatient services.	
CO5	Understand the role of physiotherapy in various clinical conditions and the documentation of patient service.	

Mapping of Course Outcomes with Program Outcomes (1/2/3 indicates strength of correlation 3-High, 2 Medium, 1 Low)																	
CO/ PO/ PSO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	2	3	3	3	3	3	3	3	3	3	2	3	3	3	3
CO2	3	3	3	3	3	3	2	3	3	3	3	3	3	3	2	3	3
CO3	3	3	3	3	2	3	3	3	3	3	3	3	3	3	3	3	2
CO4	3	3	3	3	3	3	3	3	2	3	3	3	3	2	3	3	3
CO5	3	3	3	3	3	3	2	3	3	3	3	3	3	3	3	2	3

CLINICAL TRAINING I

Syllabus

Unit I : Postings for Observation , evaluation and assessment of cases in Physio care for Musculoskeletal, Sports injuries, Hand injury-patients

Unit II : Aurogreen postings for Aquatic therapy

Unit III : FitnessOne and EXRX postings for Fitness

Unit IV : Pain and stroke posting for clinical evaluation,gait analysis

Unit V : NIEPMD Postings for Physically challenged.

SEMESTER II - COURSE OUTCOME, CO PO MAPPING

Course Code 19MPT2MC01	Course Name: Movement Science	Theory	Practical	Total Credit
	Total Contact Hours -165	6	2	8
	Prerequisite Course -BPT			
	Course Coordinator:			
Course Outcomes (CO)				
CO1	Apply fundamental human movement principles, from both natural and social science perspectives.			
CO2	Understanding of the form and function of the human body.			
CO3	Critically evaluate human movement research in order to design and generate disciplinary knowledge.			
CO4	Use qualitative and quantitative reasoning and evidence, synthesizing information from a variety of origins.			
CO5	Evaluate methodically and systematically problems and develop interventions in the human movement domain.			

Mapping of Course Outcomes with Program Outcomes (1/2/3 indicates strength of correlation 3-High, 2 Medium, 1 Low)																	
CO/ PO/ PSO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	2	3	3	3	3	3	3	3	3	3	3	3	3	2	3
CO2	3	3	3	3	3	3	2	3	3	3	3	3	2	3	3	3	3
CO3	3	3	3	3	3	3	3	3	2	3	3	3	3	3	3	3	2
CO4	3	3	3	2	3	3	3	3	3	3	3	3	3	2	3	3	3
CO5	3	2	3	3	3	3	3	3	3	3	3	3	3	3	3	2	3

MOVEMENT SCIENCE

Syllabus

UNIT I : APPLIED ANATOMY: Voluntary movement- neural control – tone- pathways

UNIT II : APPLIED ANATOMY: Kinetics- kinematics – application in spasticity – flaccid paralysis

UNIT III : PATHOMECHANICS : Biomechanics – pathomechanics of extremities – spine – functional analysis

UNIT IV : PATHOMECHANICS :Gait - Kinematic Analysis of Gait – Force Platform - Robotics– Posture
-Significance of functional MRI.

UNIT V : Mobility Aids – ergonomics at industry – workplace – Job analysis – rehabilitation

Reference

1. Basic biomechanics of the musculoskeletal system by Margareta Nordin and Victor H. Frankle, 2nd edition (Lea and Febiger)
2. Kinesiology of the Human Body: Under Normal and pathological condition by Arthur Steindler, 5th edition (Charles C Thomas, 1977)
3. Joint Structure & Function :A comprehensive analysis by Cynthia C Norkin, Pamela K Levangie (Jaypee Brothers, 2006)
4. Brunnstrom's Clinical Kinesiology by Laura K. Smith & Don Lehmkuh, 5th edition (F A Davis, 1996)
5. The Physiology of the Joints by Kapandji & Matthew J Kendel (Churchill Livingstone, 2008)
6. Clinical Biomechanics of the Spine by Augustus A White & Manohar M Panjabi, 2nd Edition (Lippincott Williams & Wilkins; 1990)
7. Kinesiology :The mechanics and Pathomechanics of Human Movement by Carol Oatis (Lippincott Williams & Wilkins; 2008)
8. Kinesiology: Application to pathological motion by Soderberg, 2nd Edition (Williams & Wilkins, 1997)

Course Code 19MPT2MC02	Course Name: Advanced Therapeutics	Theory	Practical	Total Credit
	Total Contact Hours -165	5	3	8
	Prerequisite Course -BPT			
	Course Coordinator:			
Course Outcomes (CO)				
CO1	Implement a standardised approach to patient care in complex acute care settings.			
CO2	Describe the pathophysiology of selected disease states and explain the rationale and expected outcomes for drug therapy.			
CO3	Use current best evidence to determine and justify a valid/optimal therapeutic approach to management of these disease states.			
CO4	Develop, with an evidence based rationale, customised management and monitoring plans considering patient specific parameters, clinical test results and pharmacokinetic parameters.			
CO5	Critically reflect on and consolidate their individual learning process and progress in clinical competence.			

Mapping of Course Outcomes with Program Outcomes (1/2/3 indicates strength of correlation 3-High, 2 Medium, 1 Low)																	
CO/ PO/ PSO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3	3	3	3	3	2	3	3	3	3	3	3	2
CO2	3	3	3	3	3	3	3	2	3	3	3	3	3	3	2	3	3
CO3	3	3	3	3	3	3	3	3	3	3	3	2	3	3	3	3	2
CO4	3	3	3	2	3	3	3	3	3	3	3	3	3	2	3	3	3
CO5	3	3	3	3	3	2	3	3	3	3	3	3	3	3	3	2	3

ADVANCED THERAPEUTICS

Syllabus

UNIT I EXERCISE THERAPY : Evaluation – prescription – concepts – physiological effects – limitation – clinical indications – care points – progression

- Documentation – types of exercises – strength endurance – role of biomedical engineering

UNIT II ELECTROTHERAPY : Electrotherapy low frequency, medium and high frequency equipments – limitations , effects , uses , indications , contraindications , safety precautions – electrotherapeutic – EMG Biofeedback

UNIT III MANUAL THERAPY : History – concepts indications – contraindication – safety precautions – evaluation – joint mobilization techniques

UNIT IV : Soft tissue techniques – muscle energy techniques – myofascial release , TP release – PR technique – neural tissue mobilisation

UNIT V : Clinical examination – disability evaluation – differential diagnosis – prescription of modalities – evaluation prognosis – documentation – evidence based practise

Reference

Books

- 1 Text Book of work Physiology - Guyton, Prim Books Bangalore - 1991, 8th Edition.
- 2 Physicals agents in rehabilitation: from research to practical by Michell H. Cameron, 2nd edition (Saunders and Elsevier, 2003)
- 3 Therapeutic Modalities for Allied Health Professionals by William E. Prentice and Frank Underwood (McGraw-Hill, 1998)

Journal

1. European journal of physiotherapy (advances in physiotherapy)
2. Archives of physical medicine and rehabilitation
3. Indian journal of physical therapy
4. International journal of therapy and rehabilitation
5. Journal of rehabilitation medicine

Course Code 19MPT2GE01	Course Name: Health Economics	Theory	Practical	Total Credit
	Total Contact Hours -135	4	2	6
	Prerequisite Course - BPT			
	Course Coordinator:			
Course Outcomes (CO)				
CO1	Community physiotherapist in natural and man-made disasters and disaster management.			
CO2	Need of health economics and methods of economic analysis in health.			
CO3	Definition and types of medical records, importance of medical record.			
CO4	Quality control and management- principles and methods.			
CO5	Inventory control and purchase management.			

Mapping of Course Outcomes with Program Outcomes (1/2/3 indicates strength of correlation 3-High, 2 Medium, 1 Low)																	
CO/ PO/ PSO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3	3	3	3	3	3	3	2	3	3	3	2	3
CO2	3	3	3	3	3	3	3	3	3	2	3	3	3	3	2	3	3
CO3	3	3	3	3	3	3	2	3	3	3	3	3	2	3	3	3	3
CO4	3	3	3	3	2	3	3	3	3	3	3	3	3	3	3	3	2
CO5	3	3	3	3	3	3	3	3	3	2	3	3	3	2	3	3	3

HEALTH ECONOMICS

Syllabus

Unit I: Ethical principles in health economic analysis

Unit II: Measuring status of health and cost of illness

Unit III : Different health economic evaluations

Unit IV: Decision-analytic modelling

Unit V: Sensitivity analyses Insight in the use of health economic evaluations in real world

Reference

Text Books

1.Drummond, Michael F. Methods for the economic evaluation of health care programmes [updated and rev.] ed.: Oxford: Oxford University Press, 2005.

2.Brazier, John. Measuring and Valuing Health Benefits for Economic Evaluation
Oxford University Press, 2007.

Course Code 19MPT2GE02	Course Name: Yoga for Physiotherapist	Theory	Practical	Total Credit
	Total Contact Hours -135	4	2	6
	Prerequisite Course - BPT			
	Course Coordinator:			
Course Outcomes (CO)				
CO1	Demonstrate the introduction and principles of yoga.			
CO2	Knowledge of history of yoga and yoga in modern India.			
CO3	Outline of yoga background and importance of yoga in modern world.			
CO4	Learning the types and forms of asanas and description of physiological effect of yoga.			
CO5	Understanding the role of yoga in physiotherapy.			

Mapping of Course Outcomes with Program Outcomes (1/2/3 indicates strength of correlation 3-High, 2 Medium, 1 Low)																	
CO/ PO/ PSO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3	3	2	3	3	3	3	3	3	3	3	3	2
CO2	3	3	3	3	3	3	3	3	3	3	2	3	3	3	2	3	3
CO3	3	3	3	3	3	3	2	3	3	3	3	3	2	3	3	3	3
CO4	3	3	3	3	3	3	3	3	3	2	3	3	3	3	3	2	3
CO5	3	3	3	3	3	3	3	3	3	3	3	2	3	2	3	3	3

YOGA FOR PHYSIOTHERAPIST

Syllabus

Unit I: Scientific Study of yoga- types- Basics- Philosophy- Evolution -Physiologic & Therapeutic effects, Dangers- Precautions.

Unit II: Principle & Practice of Pranayama Hatha Yoga, clinical Applications

Unit III: Yoga & Human Systems, Yoga in Physical and Mental Health, Yoga for Personality Development- Yoga & Stress Management, Yoga & Pregnancy

Unit IV : Advanced Yoga Techniques -Research in Yoga

Unit V : Physiotherapy and Yoga, Clinical Applications of Yoga

Reference

- 1.Application in Yoga, Gharote, manmath M. ,Lonavla, 2008
- 2.The Complete book of Yoga, Sri Ananda, Orient Paper Backs, Delhi, 2003

Course. Code 19MPT2CT02	Course Name: Clinical Training II	Total Credit
	Total Contact Hours - 255	3
	Prerequisite Course - BPT	
	Course Coordinator:	
Course Outcomes (CO)		
CO1	Explain the components of basic assessment for a patient.	
CO2	List the impairments resulting in functional limitation and participation restriction.	
CO3	Demonstrate clinical observatory skill and the bed side manners.	
CO4	Understanding of policy of the inpatient service and outpatient services.	
CO5	Understand the role of physiotherapy in various clinical conditions and the documentation of patient service.	

Mapping of Course Outcomes with Program Outcomes (1/2/3 indicates strength of correlation 3-High, 2 Medium, 1 Low)																	
CO/ PO/ PSO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2
CO2	3	3	3	3	3	3	3	2	3	3	3	3	3	3	2	3	3
CO3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	3	3	3
CO4	3	3	3	3	3	2	3	3	3	3	3	3	3	3	3	3	2
CO5	3	3	3	2	3	3	3	3	3	3	3	3	3	3	3	3	2

CLINICAL TRAINING II

Syllabus

Unit I : Postings for Observation , evaluation and assessment of cases in Physio care for Musculoskeletal, Sports injuries, Hand injury-patients

Unit II : Aurogreen postings for Aquatic therapy

Unit III : FitnessOne and EXRX postings for Fitness

Unit IV : Pain and stroke posting for clinical evaluation,gait analysis

Unit V : NIEPMD Postings for Physically challenged.

SEMESTER III - COURSE OUTCOME, CO PO MAPPING

Course Code 19MPT3AE01	Course Name: Allied Elective in Neuro	Theory	Practical	Total Credit
	Total Contact Hours -180	5	4	9
	Prerequisite Course -BPT			
	Course Coordinator:-			
Course Outcomes (CO)				
CO1	Understanding the importance of pediatric neurological conditions.			
CO2	Understand about assessment and management of degenerative conditions.			
CO3	Understand the importance and management of neurological conditions.			
CO4	Understand about complication impairment and disability and their management.			
CO5	Understand the geriatric conditions under the theories of ageing and physiological changes due to ageing.			

Mapping of Course Outcomes with Program Outcomes (1/2/3 indicates strength of correlation 3-High, 2 Medium, 1 Low)																	
CO/ PO/ PSO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3	3	2	3	3	3	3	3	3	3	3	3	2
CO2	3	3	3	3	3	3	3	3	2	3	3	3	3	3	2	3	3
CO3	3	3	3	3	3	3	3	3	3	2	3	3	3	3	3	3	2
CO4	3	3	3	3	3	3	2	3	3	3	3	3	2	3	3	3	3
CO5	3	3	3	3	3	3	3	3	2	3	3	3	3	3	3	2	3

ALLIED ELECTIVE IN NEURO

Syllabus

UNIT I : Paediatric neurology – hydrocephalus – growth development – syringomyelia – cerebral palsy

UNIT II : Reflexes – nutrition – genetic disorders – surgery – physiotherapy assessment – differential diagnosis – rehabilitation

UNIT III : Geriatrics – falls – balance – systemic illness- depression – cognitive disorders – parkinson's diseases – AD – neurological changes – musculoskeletal – incontinence – disability – social security

UNIT IV : Conditions – degenerative , infective , connective tissue – Autoimmune – genetic , conservative – surgical – evaluation – differential diagnosis – treatment

UNIT V : Evidence based practice – disability evaluation – compensation – benefits

Reference

1. Clinical Neuroanatomy for Medical Students by Richard S Snell, 5th Edition (Lippincott Williams & Wilkins, 2001) Neurophysiology
2. Neurophysiology by RHS Carpenter, 4th edition (Arnold 2003) Clinical neurology 1. Pathophysiology of the motor systems: Principles and Clinical presentations by Christopher M. Fredericks and Lisa K. Saladin (F.A. Davis Company 1996)
3. Brain's diseases of the nervous system by John Walton, 12th edition (Oxford University press)
4. Illustrated neurology and neuro surgery by Kenneth Lindsay and Ian Bone (Churchill Livingston, 2004)
5. Bickerstaff's neurological examination in clinical practice by John Spillane, 6th edition (Blackwell science limited 1996)
6. Physical rehabilitation laboratory manual: Focus on functional training by Susan B O Sullivan and Thomas J Schmitz. (F.A. Davis Company

Journal

1. Journal of Neurologic Physical Therapy
2. Journal of Rehabilitation Research and Development.
3. Journal of Neurological Sciences.
4. European Journal of Neurological Sciences
5. Internal Journal of Neurorehabilitation

CLINICAL TRAINING III

Syllabus

Unit I : Clinical evaluation patient care in pain and stroke

Unit II : Gait rehabilitation in pain and stroke

Unit III : EMG and biofeedback in Jogo

Unit IV : Neurological rehabilitation in VHS

Unit V : Postoperative Neuro care inVHS

SEMESTER IV - COURSE OUTCOME, CO PO MAPPING

Course Code 19MPT4AE01	Course Name: Elective in Advance Neurology	Theory	Practical	Total Credit
	Total Contact Hours -	10	8	18
	Prerequisite Course - BPT			
	Course Coordinator:			
Course Outcomes (CO)				
CO1	Understand the importance of growth and development of nervous system.			
CO2	Understand about basic concept of neurodiagnostics in physiotherapy assessment and management.			
CO3	Understand about the different types of manual therapy concepts used in physiotherapy for treating different neurological physiotherapy conditions.			
CO4	Able to plan and prescribe short and long term physiotherapy treatment by selecting appropriate mode of evaluation and interventions.			
CO5	Understand the concepts of rehabilitation and delivery of health care with medical team work.			

Mapping of Course Outcomes with Program Outcomes (1/2/3 indicates strength of correlation 3-High, 2 Medium, 1 Low)																	
CO/ PO/ PSO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3	2	3	3	3	3	3	3	3	3	2	3	3
CO2	3	3	3	3	3	3	3	2	3	3	3	3	3	3	3	3	2
CO3	3	3	3	3	3	3	3	3	3	2	3	3	3	2	3	3	3
CO4	3	3	3	3	3	3	3	3	3	3	3	2	3	3	3	2	3
CO5	3	3	3	3	3	3	3	2	3	3	3	3	2	3	3	3	3

ELECTIVE IN ADVANCE NEUROLOGY

Syllabus

UNIT I : Growth and development of nervous system – neuroanatomy – neurophysiology – pathophysiology of nerve – muscle – motor system – motor control – coordination – voluntary movement

UNIT II :Neurodiagnostic tests - indications, limitations. – Uses – clinical manifestation of various congenital – acquired neuro disease disorders

UNIT III : Physiotherapy assessment – scales – score – index – neuro aliments – movement disorders – degenerative conditions – post operative cranial – spinal – nerve – surgeries – ICU management

UNIT IV : PT techniques – concepts – indications – safety – physiological effects – evidence based applications – rehabilitation

UNIT V: Disability evaluation – management – mobility AIDS – orthotics – neuro drugs – surgery – post operative care.

Reference

1. Clinical Neuroanatomy for Medical Students by Richard S Snell, 5th Edition (Lippincott Williams & Wilkins, 2001) Neurophysiology
2. Neurophysiology by RHS Carpenter, 4th edition (Arnold 2003) Clinical neurology 1. Pathophysiology of the motor systems: Principles and Clinical presentations by Christopher M. Fredericks and Lisa K. Saladin (F.A. Davis Company 1996)
3. Brain's diseases of the nervous system by John Walton, 12th edition (Oxford University press)
4. Illustrated neurology and neuro surgery by Kenneth Lindsay and Ian Bone (Churchill Livingstone, 2004)
5. Bickerstaff's neurological examination in clinical practice by John Spillane, 6th edition (Blackwell science limited 1996)
6. Physical rehabilitation laboratory manual: Focus on functional training by Susan B O Sullivan and Thomas J Schmitz. (F.A. Davis Company

Journal

1. Journal of Neurologic Physical Therapy
2. Journal of Rehabilitation Research and Development.
3. Journal of Neurological Sciences.
4. European journal of neurological sciences
5. Internal journal of neurorehabilitation

Course Code 19MPT4CT04	Course Name: Clinical Training IV	Total Credit
	Total Contact Hours -255	3
	Prerequisite Course - BPT	
	Course Coordinator:	
Course Outcomes (CO)		
CO1	Explain the components of basic assessment for a patient.	
CO2	List the impairments resulting in functional limitation and participation restriction.	
CO3	Demonstrate clinical observatory skill and the bedside manners.	
CO4	Understanding of policy of the inpatient service and outpatient services.	
CO5	Understand the role of physiotherapy in various clinical conditions and the documentation of patient service.	

Mapping of Course Outcomes with Program Outcomes (1/2/3 indicates strength of correlation 3-High, 2 Medium, 1 Low)																	
CO/ PO/ PSO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3	3	3	3	2	3	3	3	3	3	3	2	3
CO2	3	3	3	3	3	3	3	3	3	3	2	3	3	2	3	3	3
CO3	3	3	3	3	3	3	3	2	3	3	3	3	3	3	3	3	2
CO4	3	3	3	3	3	2	3	3	3	3	3	3	3	3	2	3	3
CO5	3	3	3	3	3	3	3	3	3	3	2	3	3	3	3	3	2

CLINICAL TRAINING IV

Syllabus

Unit I : Clinical evaluation patient care in pain and stroke

Unit II : Gait rehabilitation in pain and stroke

Unit III : EMG and biofeedback in Jogo

Unit IV : Neurological rehabilitation in VHS

Unit V : Postoperative Neuro care inVHS

Accredited 'A' Grade by NAAC
(Declared as Deemed -to -be University under section 3 of UGC Act, 1956)
SREE BALAJI COLLEGE OF PHYSIOTHERAPY
Constituent College of BIHER

MPT in Advanced Orthopedic Conditions CBCS Syllabus 2019								
1 Semester = 20 Weeks Teaching/ 1 Week= 36 Hours								
MC Main Core, GE General Elective, CT Clinical Training, CD Dissertation, AE Allied Elective								
Sem	Course Code	Courses	Theory		Practical		Total Hours	Total Credits
			H	C	H	C		
I	19MPT1MC01	Basic Sciences	90	6	75	2	165	8
	19MPT1MC02	Research Methodology, Biostatistics and EBP	75	5	90	3	165	8
	19MPT1GE01	Molecular Biology	60	4	75	2	135	6
	19MPT1GE02	Kinesiotaping						
	19MPT1CT01	Clinical Training I					255	3
							720	25
II	19MPT2MC01	Movement Science	90	6	75	2	165	8
	19MPT2MC02	Advanced Therapeutics	75	5	90	3	165	8
	19MPT2GE01	Health Economics	60	4	75	2	135	6
	19MPT2GE02	Yoga for Physiotherapist						
	19MPT2CT02	Clinical Training II					255	3
							720	25
III	19MPT3AE01	Allied Elective in Ortho	160	10	200	8	360	18
	19MPT3CD01	Dissertation	30	2	75	2	105	4
	19MPT3CT03	Clinical Training III					255	3
							720	25
IV	19MPT4AE01	Elective in Advance Orthopedic	160	10	200	8	360	18
	19MPT4CD01	Dissertation	30	2	75	2	105	4
	19MPT4CT04	Clinical Training IV					255	3
							720	25

SEMESTER I - COURSE OUTCOME, CO PO MAPPING

Course Code 19MPT1MC01	Course Name: Basic Science	Theory	Practical	Total Credit
	Total Contact Hours -165	6	2	8
	Prerequisite Course - BPT			
	Course Coordinator:			
Course Outcomes (CO)				
CO1	Demonstrate comprehensive understanding of electrophysiology.			
CO2	Acquire the knowledge in nutrition that is required to be practiced in health care system.			
CO3	Understand the basis of exercise and sports and its application in practice of physiotherapy.			
CO4	Learn and understand the skills of assessment for fitness evaluation and its application in practice of physiotherapy.			
CO5	Understand the concepts of applications of molecular biology and genetics.			

Mapping of Course Outcomes with Program Outcomes (1/2/3 indicates strength of correlation 3-High, 2 Medium, 1 Low)																	
CO/ PO/ PSO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3	3	3	3	3	3	3	2	3	3	2	3	3
CO2	3	3	3	3	3	3	2	3	3	3	3	3	3	3	3	2	3
CO3	3	3	3	3	3	3	3	3	3	2	3	3	3	2	3	3	3
CO4	3	3	3	3	3	3	2	3	3	3	3	3	3	3	3	3	2
CO5	3	3	3	3	3	3	3	3	3	2	3	3	2	3	3	3	3

BASIC SCIENCE

Syllabus

UNIT I : Cell- nerve – muscle – physiology – Electrophysiology- nerve conduction studies – electromyography – ENMS – kinesiological EMG – bioelectricity – evoked potentials

Molecular Biology & Genetics.

UNIT II : Nutrition – carbohydrates – minerals – protein – fat – metabolism – nature – malnutrition – source – role of exercises – supplement – obesity – evaluation – management

UNIT III : Exercise and sports physiology – energy transfer – source – utilisation – response of musculoskeletal – nervous – endocrine – cardiorespiratory system

UNIT IV : Aerobic – resisted – high intensity exercises – factors influencing – techniques – exercise physiology

UNIT V : Fatigue – fitness evaluation – training – various by techniques – gender – altitude

Reference

- 1 Exercise Physiology - Mc Ardle Katch, Katch.
2. Clinical Electromyography (Part I basic section only) Nerve Conduction Studies - Shin J.OH - Publisher Williams & Wilkins.
3. Clinical Neurophysiology - Nerve conduction, Electromyography and Evoked Potentials - UK Misra, Publisher B.I. Churchill Livingstone.
4. Manual of Nerve conduction velocity techniques - DE HSA, Raven Press, New York.
5. Electrodiagnosis in Diseases of Nerve & Muscle - Kimura FA Davis, Philadelphia

Journal

1. Journal of biomedical sciences
2. Bosnian journal of basic medical sciences
3. International journal of medical sciences
4. Clinical science
5. Internal journal of sciences: basic and applied research

Course Code 19MPT1MC02	Course Name: Research Methodology, Biostatistics and EBP	Theory	Practical	Total Credit
	Total Contact Hours -165	5	3	8
	Prerequisite Course - BPT			
	Course Coordinator:			
Course Outcomes (CO)				
CO1	Describe how research is undertaken, and its benefits.			
CO2	Differentiate between quantitative research and qualitative research.			
CO3	Select an appropriate study design based on research question.			
CO4	Identify ethical issues in research.			
CO5	Design a research proposal			

Mapping of Course Outcomes with Program Outcomes (1/2/3 indicates strength of correlation 3-High, 2 Medium, 1 Low)																	
CO/ PO/ PSO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	2	3	3	3	3	3	3	3	3	3	3	3	2	3
CO2	3	3	3	3	3	2	3	3	3	3	3	3	3	2	3	3	3
CO3	3	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2
CO4	3	3	3	3	3	3	3	3	3	2	3	3	3	2	3	3	3
CO5	3	3	3	3	3	3	3	2	3	3	3	3	3	3	3	2	3

RESEARCH METHODOLOGY, BIOSTATISTICS AND EBP

Syllabus

UNIT I : Ethics in physiotherapy research – phases of research – conceptual phase – concepts – variables – hypothesis – literature review

UNIT II : Emperical phase – design – survey – validity – data collection – observationsl method- data collection – observational method- biophysiologic measures – data analysis – descriptive statistics – inferential statistics

UNIT III : Interpretative phase – critiquing research – guidelines Guidelines for research publication – APA style – plagiarism – copy right laws

UNIT IV : Concepts of teaching and learning – curriculum – development – methods of teaching – evaluation – guidance and counselling – faculty professional and personal development in PT – Online learning & Evaluation.

UNIT V : PT education – Indian health care – physiotherapy practice growth – demand – India – abroad – department management – finance management – legal concepts – values – ethics .Marketing strategies, Finance in education , Medicolegal aspects.

Reference

Textbook

1. Research methodology- C. R. Kothari
2. Research Methods for Clinical therapist- Carolyn M. Hicks
3. Research design- John W. Creswell
4. Rehabilitation Research: Principles and Applications by Elizabeth Domholdt
5. Nursing Research- Polit & Hungler
6. Introduction to Biostatistics and Research Methods Rao P.S.S. Sundar & j. Richard
7. Research Methodology and Biostatistics - A Comprehensive Guide for Health Care Professionals, Suresh Sharma
8. Principles, Methods And Techniques Of Teaching Paperback – 1 January 2010
by J.C. Aggarwal (Author)

Websites

1. <https://www.researchgate.net/search>
2. <https://www.ncbi.nlm.nih.gov/pmc/>

Journals

1. Journal of Clinical Physiotherapy Research
2. Physiotherapy research International
3. International Journal Of Physiotherapy Research

Course Code 19MPT1GE01	Course Name: Molecular Biology	Theory	Practical	Total Credit
	Total Contact Hours -135	4	2	6
	Prerequisite Course - BPT			
	Course Coordinator:			
Course Outcomes (CO)				
CO1	Learning structural levels of nucleic acids- DNA and RNA and genome organization in prokaryotes and eukaryote and the concept of Gene and the gene architecture.			
CO2	Learning molecular events in the DNA replication and role of different enzymes and overview of the central dogma of life and various molecular events.			
CO3	Understanding the principles and applications of polymerase chain reaction(PCR) and molecular events of transcription and processing of transcripts, RNA editing.			
CO4	Molecular events of translation leading to protein synthesis and post translational modification and understanding the regulation of gene expression in prokaryotes using operon concept and eukaryotes.			
CO5	Learn the methods of DNA sequencing and various tools and techniques of molecular biology and learn about the molecular markers and its classification and applications.			

Mapping of Course Outcomes with Program Outcomes (1/2/3 indicates strength of correlation 3-High, 2 Medium, 1 Low)																	
CO/ PO/ PSO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3	3	3	3	3	3	2	3	3	2	3	3	3
CO2	3	3	3	3	3	3	3	3	2	3	3	3	3	3	3	2	3
CO3	3	3	2	3	3	3	3	3	3	3	2	3	3	2	3	3	3
CO4	3	3	3	3	3	3	2	3	3	3	3	3	3	3	2	3	3
CO5	3	3	3	3	3	3	3	3	3	3	2	3	3	3	3	3	2

MOLECULAR BIOLOGY FOR PHYSIOTHERAPIST

Syllabus

Unit I: Describe the chemical nature of, and major chemical processes within, the human body and key features of the metabolic processes by which cells generate energy.

Unit II : Evaluate how the body responds to changes in nutritional input and energy output, genetic information is used in the human body and explain how this impacts the health of an individual.

Unit III : Explain the similarities & differences between eukaryotic cells, prokaryotic cells and viruses.

Unit IV : Describe how the human body defends against infectious disease.

Unit V: Explore how pathogenic microbes cause disease, methods of infection control and evaluate their relative merits.

References

Text Book

1. Molecular and Cellular Biology, Sanghera Paul Dr
2. Cell and Molecular Biology, P. K. Gupta (Author)

Website:

1. <https://academic.oup.com/mbe>
2. <https://www.springer.com/>

Journal

1. <https://journals.asm.org/journal/mcb>
2. <https://bmcmolbiol.biomedcentral.com/>
3. <https://www.journals.elsevier.com/journal-of-molecular-biology>

Course Code 19MPT1GE02	Course Name: Kinesiotaping	Theory	Practical	Total Credit
	Total Contact Hours -135	4	2	6
	Prerequisite Course - BPT			
	Course Coordinator:			
Course Outcomes (CO)				
CO1	Describe the concepts of Kinesio Taping.			
CO2	Describe the unique qualities of the Kinesio Tex Tape.			
CO3	Utilize and demonstrate application skills in guided laboratory sessions.			
CO4	Demonstrate application skills during lab sessions.			
CO5	Practice the various cutting techniques and their clinical application.			

Mapping of Course Outcomes with Program outcomes (POs) (1/2/3 indicates strength of correlation 3-High, 2 Medium, 1 Low)																	
CO/ PO/ PSO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3	2	3	3	3	3	3	3	3	3	3	2	3
CO2	3	3	3	3	3	3	3	3	2	3	3	3	3	3	2	3	3
CO3	3	3	3	3	3	3	2	3	3	3	3	3	3	3	3	3	2
CO4	3	3	3	2	3	3	3	3	3	3	3	3	3	3	3	3	3
CO5	3	3	3	3	3	2	3	3	3	3	3	3	2	3	3	3	3

KINESIOTAPING

Syllabus

Unit I: Introduction- Theory- Basics of Application-Contra indications- Precautions

Unit II: K-Tape Material- Physiological & Therapeutic effects- Clinical Applications

Unit III: Types of Application- Stretch

Unit IV : Various fields- Sports- Pregnancy- orthopedics, etc.

Unit V : K-Taping research- Evidences-Future

References:

1. Kinesiology Taping For Rehab And Injury Prevention - Kim Aliana
2. Practical Guide to Kinesiology Taping for Injury Prevention and Common Medical Conditions, Gibbons John
3. NeuroMuscular taping -Edi Ermes Usa, David Blow
4. Kinesiology Taping: The Essential Step-by-step Guide - Langendoen, John And Sertel, Karin

Website :

1. <https://kinesiotaping.com/>
2. <https://www.k-taping.com/en/>

Course Code 19MPT1CT01	Course Name: Clinical Training I	Total Credit
	Total Contact Hours - 255	3
	Prerequisite Course - BPT	
	Course Coordinator:	
Course Outcomes (CO)		
CO1	Explain the components of basic assessment for a patient.	
CO2	List the impairments resulting in functional limitation and participation restriction.	
CO3	Demonstrate clinical observatory skill and the bedside manners.	
CO4	Understanding of policy of the inpatient service and outpatient services.	
CO5	Understand the role of physiotherapy in various clinical conditions and the documentation of patient service.	

Mapping of Course Outcomes with Program Outcomes (1/2/3 indicates strength of correlation 3-High, 2 Medium, 1 Low)																	
CO/ PO/ PSO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	2	3	3	3	3	3	3	3	3	3	2	3	3	3	3
CO2	3	3	3	3	3	3	2	3	3	3	3	3	3	3	2	3	3
CO3	3	3	3	3	2	3	3	3	3	3	3	3	3	3	3	3	2
CO4	3	3	3	3	3	3	3	3	2	3	3	3	3	2	3	3	3
CO5	3	3	3	3	3	3	2	3	3	3	3	3	3	3	3	2	3

CLINICAL TRAINING I

Syllabus

Unit I : Postings for Observation , evaluation and assessment of cases in Physio care for Musculoskeletal, Sports injuries, Hand injury-patients

Unit II : Aurogreen postings for Aquatic therapy

Unit III : FitnessOne and EXRX postings for Fitness

Unit IV : Pain and stroke posting for clinical evaluation,gait analysis

Unit V : NIEPMD Postings for Physically challenged.

SEMESTER II - COURSE OUTCOME, CO PO MAPPING

Course Code 19MPT2MC01	Course Name: Movement Science	Theory	Practical	Total Credit
	Total Contact Hours -165	6	2	8
	Prerequisite Course -BPT			
	Course Coordinator:			
Course Outcomes (CO)				
CO1	Apply fundamental human movement principles, from both natural and social science perspectives.			
CO2	Understanding of the form and function of the human body.			
CO3	Critically evaluate human movement research in order to design and generate disciplinary knowledge.			
CO4	Use qualitative and quantitative reasoning and evidence, synthesizing information from a variety of origins.			
CO5	Evaluate methodically and systematically problems and develop interventions in the human movement domain.			

Mapping of Course Outcomes with Program Outcomes (1/2/3 indicates strength of correlation 3-High, 2 Medium, 1 Low)																	
CO/ PO/ PSO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	2	3	3	3	3	3	3	3	3	3	3	3	3	2	3
CO2	3	3	3	3	3	3	2	3	3	3	3	3	2	3	3	3	3
CO3	3	3	3	3	3	3	3	3	2	3	3	3	3	3	3	3	2
CO4	3	3	3	2	3	3	3	3	3	3	3	3	3	2	3	3	3
CO5	3	2	3	3	3	3	3	3	3	3	3	3	3	3	3	2	3

MOVEMENT SCIENCE

Syllabus

UNIT I : APPLIED ANATOMY: Voluntary movement- neural control – tone- pathways

UNIT II : APPLIED ANATOMY: Kinetics- kinematics – application in spasticity – flaccid paralysis

UNIT III : PATHOMECHANICS : Biomechanics – pathomechanics of extremities – spine – functional analysis

UNIT IV : PATHOMECHANICS :Gait - Kinematic Analysis of Gait – Force Platform - Robotics– Posture
-Significance of functional MRI.

UNIT V : Mobility Aids – ergonomics at industry – workplace – Job analysis – rehabilitation

Reference

1. Basic biomechanics of the musculoskeletal system by Margareta Nordin and Victor H. Frankle, 2nd edition (Lea and Febiger)
2. Kinesiology of the Human Body: Under Normal and pathological condition by Arthur Steindler, 5th edition (Charles C Thomas, 1977)
3. Joint Structure & Function :A comprehensive analysis by Cynthia C Norkin, Pamela K Levangie (Jaypee Brothers, 2006)
4. Brunnstrom's Clinical Kinesiology by Laura K. Smith & Don Lehmkuh, 5th edition (F A Davis, 1996)
5. The Physiology of the Joints by Kapandji & Matthew J Kendel (Churchill Livingstone, 2008)
6. Clinical Biomechanics of the Spine by Augustus A White & Manohar M Panjabi, 2nd Edition (Lippincott Williams & Wilkins; 1990)
7. Kinesiology :The mechanics and Pathomechanics of Human Movement by Carol Oatis (Lippincott Williams & Wilkins; 2008)
8. Kinesiology: Application to pathological motion by Soderberg, 2nd Edition (Williams & Wilkins, 1997)

Course Code 19MPT2MC02	Course Name: Advanced Therapeutics	Theory	Practical	Total Credit
	Total Contact Hours -165	5	3	8
	Prerequisite Course -BPT			
	Course Coordinator:			
Course Outcomes (CO)				
CO1	Implement a standardised approach to patient care in complex acute care settings.			
CO2	Describe the pathophysiology of selected disease states and explain the rationale and expected outcomes for drug therapy.			
CO3	Use current best evidence to determine and justify a valid/optimal therapeutic approach to management of these disease states.			
CO4	Develop, with an evidence based rationale, customised management and monitoring plans considering patient specific parameters, clinical test results and pharmacokinetic parameters.			
CO5	Critically reflect on and consolidate their individual learning process and progress in clinical competence.			

Mapping of Course Outcomes with Program Outcomes (1/2/3 indicates strength of correlation 3-High, 2 Medium, 1 Low)																	
CO/ PO/ PSO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3	3	3	3	3	2	3	3	3	3	3	3	2
CO2	3	3	3	3	3	3	3	2	3	3	3	3	3	3	2	3	3
CO3	3	3	3	3	3	3	3	3	3	3	3	2	3	3	3	3	2
CO4	3	3	3	2	3	3	3	3	3	3	3	3	3	2	3	3	3
CO5	3	3	3	3	3	2	3	3	3	3	3	3	3	3	3	2	3

ADVANCED THERAPEUTICS

Syllabus

UNIT I EXERCISE THERAPY : Evaluation – prescription – concepts – physiological effects – limitation – clinical indications – care points – progression

- Documentation – types of exercises – strength endurance – role of biomedical engineering

UNIT II ELECTROTHERAPY : Electrotherapy low frequency, medium and high frequency equipments – limitations , effects , uses , indications , contraindications , safety precautions – electrotherapeutic – EMG Biofeedback

UNIT III MANUAL THERAPY : History – concepts indications – contraindication – safety precautions – evaluation – joint mobilization techniques

UNIT IV : Soft tissue techniques – muscle energy techniques – myofascial release , TP release – PR technique – neural tissue mobilisation

UNIT V : Clinical examination – disability evaluation – differential diagnosis – prescription of modalities – evaluation prognosis – documentation – evidence based practise

Reference

Books

- 1 Text Book of work Physiology - Guyton, Prim Books Bangalore - 1991, 8th Edition.
- 2 Physicals agents in rehabilitation: from research to practical by Michell H. Cameron, 2nd edition (Saunders and Elsevier, 2003)
- 3 Therapeutic Modalities for Allied Health Professionals by William E. Prentice and Frank Underwood (McGraw-Hill, 1998)

Journal

1. European journal of physiotherapy (advances in physiotherapy)
2. Archives of physical medicine and rehabilitation
3. Indian journal of physical therapy
4. International journal of therapy and rehabilitation
5. Journal of rehabilitation medicine

Course Code 19MPT2GE01	Course Name: Health Economics	Theory	Practical	Total Credit
	Total Contact Hours -135	4	2	6
	Prerequisite Course - BPT			
	Course Coordinator:			
Course Outcomes (CO)				
CO1	Community physiotherapist in natural and man-made disasters and disaster management.			
CO2	Need of health economics and methods of economic analysis in health.			
CO3	Definition and types of medical records, importance of medical record.			
CO4	Quality control and management- principles and methods.			
CO5	Inventory control and purchase management.			

Mapping of Course Outcomes with Program Outcomes (1/2/3 indicates strength of correlation 3-High, 2 Medium, 1 Low)																	
CO/ PO/ PSO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3	3	3	3	3	3	3	2	3	3	3	2	3
CO2	3	3	3	3	3	3	3	3	3	2	3	3	3	3	2	3	3
CO3	3	3	3	3	3	3	2	3	3	3	3	3	2	3	3	3	3
CO4	3	3	3	3	2	3	3	3	3	3	3	3	3	3	3	3	2
CO5	3	3	3	3	3	3	3	3	3	2	3	3	3	2	3	3	3

HEALTH ECONOMICS

Syllabus

Unit I: Ethical principles in health economic analysis

Unit II: Measuring status of health and cost of illness

Unit III : Different health economic evaluations

Unit IV: Decision-analytic modelling

Unit V: Sensitivity analyses Insight in the use of health economic evaluations in real world

Reference

Text Books

1.Drummond, Michael F. Methods for the economic evaluation of health care programmes [updated and rev.] ed.: Oxford: Oxford University Press, 2005.

2.Brazier, John. Measuring and Valuing Health Benefits for Economic Evaluation
Oxford University Press, 2007.

Course Code 19MPT2GE02	Course Name: Yoga for Physiotherapist	Theory	Practical	Total Credit
	Total Contact Hours -135	4	2	6
	Prerequisite Course - BPT			
	Course Coordinator:			
Course Outcomes (CO)				
CO1	Demonstrate the introduction and principles of yoga.			
CO2	Knowledge of history of yoga and yoga in modern India.			
CO3	Outline of yoga background and importance of yoga in modern world.			
CO4	Learning the types and forms of asanas and description of physiological effect of yoga.			
CO5	Understanding the role of yoga in physiotherapy.			

Mapping of Course Outcomes with Program Outcomes (1/2/3 indicates strength of correlation 3-High, 2 Medium, 1 Low)																	
CO/ PO/ PSO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3	3	2	3	3	3	3	3	3	3	3	3	2
CO2	3	3	3	3	3	3	3	3	3	3	2	3	3	3	2	3	3
CO3	3	3	3	3	3	3	2	3	3	3	3	3	2	3	3	3	3
CO4	3	3	3	3	3	3	3	3	3	2	3	3	3	3	3	2	3
CO5	3	3	3	3	3	3	3	3	3	3	3	2	3	2	3	3	3

YOGA FOR PHYSIOTHERAPIST

Syllabus

Unit I: Scientific Study of yoga- types- Basics- Philosophy- Evolution -Physiologic & Therapeutic effects, Dangers- Precautions.

Unit II: Principle & Practice of Pranayama Hatha Yoga, clinical Applications

Unit III: Yoga & Human Systems, Yoga in Physical and Mental Health, Yoga for Personality Development- Yoga & Stress Management, Yoga & Pregnancy

Unit IV : Advanced Yoga Techniques -Research in Yoga

Unit V : Physiotherapy and Yoga, Clinical Applications of Yoga

Reference

- 1.Application in Yoga, Gharote, manmath M. ,Lonavla, 2008
- 2.The Complete book of Yoga, Sri Ananda, Orient Paper Backs, Delhi, 2003

Course. Code 19MPT2CT02	Course Name: Clinical Training II	Total Credit
	Total Contact Hours - 255	3
	Prerequisite Course - BPT	
	Course Coordinator:	
Course Outcomes (CO)		
CO1	Explain the components of basic assessment for a patient.	
CO2	List the impairments resulting in functional limitation and participation restriction.	
CO3	Demonstrate clinical observatory skill and the bed side manners.	
CO4	Understanding of policy of the inpatient service and outpatient services.	
CO5	Understand the role of physiotherapy in various clinical conditions and the documentation of patient service.	

Mapping of Course Outcomes with Program Outcomes (1/2/3 indicates strength of correlation 3-High, 2 Medium, 1 Low)																	
CO/ PO/ PSO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2
CO2	3	3	3	3	3	3	3	2	3	3	3	3	3	3	2	3	3
CO3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	3	3	3
CO4	3	3	3	3	3	2	3	3	3	3	3	3	3	3	3	3	2
CO5	3	3	3	2	3	3	3	3	3	3	3	3	3	3	3	3	2

CLINICAL TRAINING II

Syllabus

Unit I : Postings for Observation , evaluation and assessment of cases in Physio care for Musculoskeletal, Sports injuries, Hand injury-patients

Unit II : Aurogreen postings for Aquatic therapy

Unit III : FitnessOne and EXRX postings for Fitness

Unit IV : Pain and stroke posting for clinical evaluation,gait analysis

Unit V : NIEPMD Postings for Physically challenged.

SEMESTER III - COURSE OUTCOME, CO PO MAPPING

Course Code 19MPT3AE01	Course Name: Allied Elective in Ortho	Theory	Practical	Total Credit
	Total Contact Hours -360	10	8	18
	Prerequisite Course -BPT			
	Course Coordinator:-			
Course Outcomes (CO)				
CO1	Understanding the importance of pediatric orthopaedics conditions.			
CO2	Understand about assessment and management of degenerative conditions.			
CO3	Understand the importance and management of orthopaedics conditions.			
CO4	Understand about complication impairment and disability and their management.			
CO5	Understand the geriatric conditions under the theories of ageing and physiological changes due to ageing.			

Mapping of Course Outcomes with Program Outcomes (1/2/3 indicates strength of correlation 3-High, 2 Medium, 1 Low)																	
CO/ PO/ PSO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3	3	2	3	3	3	3	3	3	3	3	3	2
CO2	3	3	3	3	3	3	3	3	2	3	3	3	3	3	2	3	3
CO3	3	3	3	3	3	3	3	3	3	2	3	3	3	3	3	3	2
CO4	3	3	3	3	3	3	2	3	3	3	3	3	2	3	3	3	3
CO5	3	3	3	3	3	3	3	3	2	3	3	3	3	3	3	2	3

ALLIED ELECTIVE IN ORTHO

Syllabus

UNIT I : Physiotherapy for paediatric orthopaedic conditions – congenital – musculoskeletal impairments – conservative – surgical management.

UNIT II : Nutrition – electrolytes – fitness – evaluation – field – contact – non contact games – sports injuries

UNIT II : Spine – extremities – prevention – safety – soft tissue mobilisation – conservative – surgical – rehabilitation –various sports injuries

UNIT III : Hand injuries – plastic surgeries – tendon soft tissue repair – amputation – evaluation –

UNIT IV : Fractures – burns – clinical conditions – disorders – orthotics – prosthetics – joint replacement

UNIT IV : Disability evaluation – compensation – benefits – Paralympics

Reference:

1. Netter-Orthopedic Clinical Examination
2. Mohan Iyer - Clinical Examination in Orthopedics
3. Kevin E.Wilk and David Jayner - The Use of Aquatics in Orthopedics and Sports Medicine Rehab
4. Stanley Hoppenfeld - Treatment and Rehabilitation of Fractures
5. John Ebnezar - Essentials of Orthopedics for Physiotherapists - 2nd Ed.
6. David J Magee-Orthopedic Physical Assessment 4th ed
7. Louis Solomon-Apley's system of Orthopedics & Fractures 9th ed
8. Stanley Hoppenfeld - Orthopedic Neurology
9. Fernim Valera Garrido-Advanced Techniques In Musculoskeletal Medicine & Physiotherapy
10. Grieves - Manual of Modern Musculoskeletal Physiotherapy 4th Ed
11. Brian Mackenzie-101 Evaluation Tests
12. James-low back pain
13. Susan Edmund - Joint Mobilization/Manipulation 2nd Ed
14. Leon Chaitow - Soft Tissue Manipulation

Course Code 19MPT3CT03	Course Name: Clinical Training III	Total Credit
	Total Contact Hours - 255	3
	Prerequisite Course - BPT	
	Course Coordinator:	
Course Outcomes (CO)		
CO1	Explain the components of basic assessment for a patient.	
CO2	List the impairments resulting in functional limitation and participation restriction.	
CO3	Demonstrate clinical observatory skill and the bedside manners.	
CO4	Understanding of policy of the inpatient service and outpatient services.	
CO5	Understand the role of physiotherapy in various clinical conditions and the documentation of patient service.	

Mapping of Course Outcomes with Program Outcomes (1/2/3 indicates strength of correlation 3-High, 2 Medium, 1 Low)																	
CO/ PO/ PSO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3	3	2	3	3	3	3	3	3	3	3	3	2
CO2	3	3	3	3	3	3	3	3	2	3	3	3	3	2	3	3	3
CO3	3	3	3	3	3	3	3	3	3	3	3	2	3	3	3	3	2
CO4	3	3	3	3	3	3	3	3	3	3	2	3	3	3	2	3	3
CO5	3	3	3	3	3	3	3	3	3	3	3	3	2	3	3	2	3

CLINICAL TRAINING III

Syllabus

Unit I : Patient evaluation in Indian red cross

Unit II : Patient evaluation treatment in physio care

Unit III : Advanced technology and rehab in K.K.Hand rehab center

Unit IV : Oncology Physiotherapy care in cancer hospital

Unit V : Orthosis and prosthesis in NIEPMD

SEMESTER IV - COURSE OUTCOME, CO PO MAPPING

Course Code 19MPT4AE01	Course Name: Elective in Advance Orthopedic	Theory	Practical	Total Credit
	Total Contact Hours -360	10	8	18
	Prerequisite Course - BPT			
	Course Coordinator:			
Course Outcomes (CO)				
CO1	Understand the importance of growth and development of musculoskeletal system.			
CO2	Understand about basic concept of orthodiagnostics in physiotherapy assessment and management.			
CO3	Understand about the different types of manual therapy concepts used in physiotherapy for treating different musculoskeletal physiotherapy conditions.			
CO4	Able to plan and prescribe short and long term physiotherapy treatment by selecting appropriate mode of evaluation and interventions.			
CO5	Understand the concepts of rehabilitation and delivery of health care with medical team work.			

Mapping of Course Outcomes with Program Outcomes (1/2/3 indicates strength of correlation 3-High, 2 Medium, 1 Low)																	
CO/ PO/ PSO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3	2	3	3	3	3	3	3	3	3	2	3	3
CO2	3	3	3	3	3	3	3	2	3	3	3	3	3	3	3	3	2
CO3	3	3	3	3	3	3	3	3	3	2	3	3	3	2	3	3	3
CO4	3	3	3	3	3	3	3	3	3	3	3	2	3	3	3	2	3
CO5	3	3	3	3	3	3	3	2	3	3	3	3	2	3	3	3	3

ELECTIVE IN ADVANCE ORTHOPEDIC

Syllabus

UNIT I : Embryological growth and development of musculoskeletal system – congenital disorders – deformities – musculoskeletal disorders

UNIT II : Amputation – tumors – infections – fractures – and dislocation – conservative – surgical management .

UNIT III : Arthroplasty – internal – external fixation – tendon transfer – arthroscopic surgeries

UNIT IV : Physiotherapy assessment – scale – score – index – degenerative ,, infective – paediatric , musculoskeletal conditions – post operative care- amputation – posture – gait – disability evaluation

UNIT V : Physiotherapy intervention – exercise – electro- rehab protocols – various techniques – orthotics – prosthetics – rehab team – disability management.

Reference:

1. Netter-Orthopedic Clinical Examination
2. Mohan Iyer - Clinical Examination in Orthopedics
3. Kevin E.Wilk and David Jayner - The Use of Aquatics in Orthopedics and Sports Medicine Rehab
4. Stanley Hoppenfeld - Treatment and Rehabilitation of Fractures
5. John Ebnezar - Essentials of Orthopedics for Physiotherapists - 2nd Ed.
6. David J Magee-Orthopedic Physical Assessment 4th ed
7. Louis Solomon-Apley's system of Orthopedics & Fractures 9th ed
8. Stanley Hoppenfeld - Orthopedic Neurology
9. Fernim Valera Garrido-Advanced Techniques In Musculoskeletal Medicine & Physiotherapy
10. Grieves - Manual of Modern Musculoskeletal Physiotherapy 4th Ed
11. Brian Mackenzie-101 Evaluation Tests
12. James-low back pain
13. Susan Edmund - Joint Mobilization/Manipulation 2nd Ed
14. Leon Chaitow - Soft Tissue Manipulation

Course Code 19MPT4CT04	Course Name: Clinical Training IV	Total Credit
	Total Contact Hours -255	3
	Prerequisite Course - BPT	
	Course Coordinator:	
Course Outcomes (CO)		
CO1	Explain the components of basic assessment for a patient.	
CO2	List the impairments resulting in functional limitation and participation restriction.	
CO3	Demonstrate clinical observatory skill and the bedside manners.	
CO4	Understand the policy of inpatient service and outpatient services.	
CO5	Understand the role of physiotherapy in various clinical conditions and the documentation of patient service.	

Mapping of Course Outcomes with Program Outcomes (1/2/3 indicates strength of correlation 3-High, 2 Medium, 1 Low)																	
CO/ PO/ PSO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3	3	3	3	2	3	3	3	3	3	3	2	3
CO2	3	3	3	3	3	3	3	3	3	3	2	3	3	2	3	3	3
CO3	3	3	3	3	3	3	3	2	3	3	3	3	3	3	3	3	2
CO4	3	3	3	3	3	2	3	3	3	3	3	3	3	3	2	3	3
CO5	3	3	3	3	3	3	3	3	3	3	2	3	3	3	3	3	2

CLINICAL TRAINING

Syllabus

Unit I : Patient evaluation in Indian red cross

Unit II : Patient evaluation treatment in physio care

Unit III : Advanced technology and rehab in K.K.Hand rehab center

Unit IV : Oncology Physiotherapy care in cancer hospital

Unit V : Orthosis and prosthesis in NIEPMD

Accredited 'A' Grade by NAAC
(Declared as Deemed -to -be University under section 3 of UGC Act, 1956)
SREE BALAJI COLLEGE OF PHYSIOTHERAPY
Constituent College of BIHER

MPT in Advanced Cardiorespiratory Condition CBSC Syllabus 2019								
1 Semester = 20 Weeks Teaching/ 1 Week= 36 Hours								
MC Main Core, GE General Elective, CT Clinical Training, CD Dissertation, AE Allied Elective								
Sem	Course Code	Courses	Theory		Practical		Total Hours	Total Credits
			H	C	H	C		
I	19MPT1MC01	Basic Sciences	90	6	75	2	165	8
	19MPT1MC02	Research Methodology, Biostatistics and EBP	75	5	90	3	165	8
	19MPT1GE01	Molecular Biology	60	4	75	2	135	6
	19MPT1GE02	Kinesiotaping						
	19MPT1CT01	Clinical Training I					255	3
							720	25
II	19MPT2MC01	Movement Science	90	6	75	2	165	8
	19MPT2MC02	Advanced Therapeutics	75	5	90	3	165	8
	19MPT2GE01	Health Economics	60	4	75	2	135	6
	19MPT2GE02	Yoga for Physiotherapist						
	19MPT2CT02	Clinical Training II					255	3
							720	25
III	19MPT3AE01	Allied Elective in Cardiorespiratory Conditions	160	10	200	8	360	18
	19MPT3CD01	Dissertation	30	2	75	2	105	4
	19MPT3CT03	Clinical Training III					255	3
							720	25
IV	19MPT4AE01	Elective in Advanced Cardiorespiratory Conditions	160	10	200	8	360	18
	19MPT4CD02	Dissertation	30	2	75	2	105	4
	19MPT4CT04	Clinical Training IV					255	3
							720	25

SEMESTER I - COURSE OUTCOME, CO PO MAPPING

Course Code 19MPT1MC01	Course Name: Basic Science	Theory	Practical	Total Credit
	Total Contact Hours -165	6	2	8
	Prerequisite Course - BPT			
	Course Coordinator:			
Course Outcomes (CO)				
CO1	Demonstrate comprehensive understanding of electrophysiology.			
CO2	Acquire the knowledge in nutrition that is required to be practiced in health care system.			
CO3	Understand the basis of exercise and sports and its application in practice of physiotherapy.			
CO4	Learn and understand the skills of assessment for fitness evaluation and its application in practice of physiotherapy.			
CO5	Understand the concepts of applications of molecular biology and genetics.			

Mapping of Course Outcomes with Program Outcomes (1/2/3 indicates strength of correlation 3-High, 2 Medium, 1 Low)																	
CO/ PO/ PSO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3	3	3	3	3	3	3	2	3	3	2	3	3
CO2	3	3	3	3	3	3	2	3	3	3	3	3	3	3	3	2	3
CO3	3	3	3	3	3	3	3	3	3	2	3	3	3	2	3	3	3
CO4	3	3	3	3	3	3	2	3	3	3	3	3	3	3	3	3	2
CO5	3	3	3	3	3	3	3	3	3	2	3	3	2	3	3	3	3

BASIC SCIENCE

Syllabus

UNIT I : Cell- nerve – muscle – physiology – Electrophysiology- nerve conduction studies – electromyography – ENMS – kinesiological EMG – bioelectricity – evoked potentials

Molecular Biology & Genetics.

UNIT II : Nutrition – carbohydrates – minerals – protein – fat – metabolism – nature – malnutrition – source – role of exercises – supplement – obesity – evaluation – management

UNIT III : Exercise and sports physiology – energy transfer – source – utilisation – response of musculoskeletal – nervous – endocrine – cardiorespiratory system

UNIT IV : Aerobic – resisted – high intensity exercises – factors influencing – techniques – exercise physiology

UNIT V : Fatigue – fitness evaluation – training – various by techniques – gender – altitude

Reference

- 1 Exercise Physiology - Mc Ardle Katch, Katch.
2. Clinical Electromyography (Part I basic section only) Nerve Conduction Studies - Shin J.OH - Publisher Williams & Wilkins.
3. Clinical Neurophysiology - Nerve conduction, Electromyography and Evoked Potentials - UK Misra, Publisher B.I. Churchill Livingstone.
4. Manual of Nerve conduction velocity techniques - DE HSA, Raven Press, New York.
5. Electrodiagnosis in Diseases of Nerve & Muscle - Kimura FA Davis, Philadelphia

Journal

1. Journal of biomedical sciences
2. Bosnian journal of basic medical sciences
3. International journal of medical sciences
4. Clinical science
5. Internal journal of sciences: basic and applied research

Course Code 19MPT1MC02	Course Name: Research Methodology, Biostatistics and EBP	Theory	Practical	Total Credit
	Total Contact Hours -165	5	3	8
	Prerequisite Course - BPT			
	Course Coordinator:			
Course Outcomes (CO)				
CO1	Describe how research is undertaken, and its benefits.			
CO2	Differentiate between quantitative research and qualitative research.			
CO3	Select an appropriate study design based on research question.			
CO4	Identify ethical issues in research.			
CO5	Design a research proposal			

Mapping of Course Outcomes with Program Outcomes (1/2/3 indicates strength of correlation 3-High, 2 Medium, 1 Low)																	
CO/ PO/ PSO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	2	3	3	3	3	3	3	3	3	3	3	3	2	3
CO2	3	3	3	3	3	2	3	3	3	3	3	3	3	2	3	3	3
CO3	3	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2
CO4	3	3	3	3	3	3	3	3	3	2	3	3	3	2	3	3	3
CO5	3	3	3	3	3	3	3	2	3	3	3	3	3	3	3	2	3

RESEARCH METHODOLOGY, BIOSTATISTICS AND EBP

Syllabus

UNIT I : Ethics in physiotherapy research – phases of research – conceptual phase – concepts – variables – hypothesis – literature review

UNIT II : Empirical phase – design – survey – validity – data collection – observational method- data collection – observational method- biophysiologic measures – data analysis – descriptive statistics – inferential statistics

UNIT III : Interpretative phase – critiquing research – guidelines Guidelines for research publication – APA style – plagiarism – copy right laws

UNIT IV : Concepts of teaching and learning – curriculum – development – methods of teaching – evaluation – guidance and counselling – faculty professional and personal development in PT – Online learning & Evaluation.

UNIT V : PT education – Indian health care – physiotherapy practice growth – demand – India – abroad – department management – finance management – legal concepts – values – ethics .Marketing strategies, Finance in education , Medicolegal aspects.

Reference

Textbook

1. Research methodology- C. R. Kothari
2. Research Methods for Clinical therapist- Carolyn M. Hicks
3. Research design- John W. Creswell
4. Rehabilitation Research: Principles and Applications by Elizabeth Domholdt
5. Nursing Research- Polit & Hungler
6. Introduction to Biostatistics and Research Methods Rao P.S.S. Sundar & j. Richard
7. Research Methodology and Biostatistics - A Comprehensive Guide for Health Care Professionals, Suresh Sharma
8. Principles, Methods And Techniques Of Teaching Paperback – 1 January 2010
by J.C. Aggarwal (Author)

Websites

1. <https://www.researchgate.net/search>
2. <https://www.ncbi.nlm.nih.gov/pmc/>

Journals

1. Journal of Clinical Physiotherapy Research
2. Physiotherapy research International
3. International Journal Of Physiotherapy Research

Course Code 19MPT1GE01	Course Name: Molecular Biology	Theory	Practical	Total Credit
	Total Contact Hours -135	4	2	6
	Prerequisite Course - BPT			
	Course Coordinator:			
Course Outcomes (CO)				
CO1	Learning structural levels of nucleic acids- DNA and RNA and genome organization in prokaryotes and eukaryote and the concept of Gene and the gene architecture.			
CO2	Learning molecular events in the DNA replication and role of different enzymes and overview of the central dogma of life and various molecular events.			
CO3	Understanding the principles and applications of polymerase chain reaction(PCR) and molecular events of transcription and processing of transcripts, RNA editing.			
CO4	Molecular events of translation leading to protein synthesis and post translational modification and understanding the regulation of gene expression in prokaryotes using operon concept and eukaryotes.			
CO5	Learn the methods of DNA sequencing and various tools and techniques of molecular biology and learn about the molecular markers and its classification and applications.			

Mapping of Course Outcomes with Program Outcomes (1/2/3 indicates strength of correlation 3-High, 2 Medium, 1 Low)																	
CO/ PO/ PSO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3	3	3	3	3	3	2	3	3	2	3	3	3
CO2	3	3	3	3	3	3	3	3	2	3	3	3	3	3	3	2	3
CO3	3	3	2	3	3	3	3	3	3	3	2	3	3	2	3	3	3
CO4	3	3	3	3	3	3	2	3	3	3	3	3	3	3	2	3	3
CO5	3	3	3	3	3	3	3	3	3	3	2	3	3	3	3	3	2

MOLECULAR BIOLOGY FOR PHYSIOTHERAPIST

Syllabus

Unit I: Describe the chemical nature of, and major chemical processes within, the human body and key features of the metabolic processes by which cells generate energy.

Unit II : Evaluate how the body responds to changes in nutritional input and energy output, genetic information is used in the human body and explain how this impacts the health of an individual.

Unit III : Explain the similarities & differences between eukaryotic cells, prokaryotic cells and viruses.

Unit IV : Describe how the human body defends against infectious disease.

Unit V: Explore how pathogenic microbes cause disease, methods of infection control and evaluate their relative merits.

References

Text Book

1. Molecular and Cellular Biology, Sanghera Paul Dr
2. Cell and Molecular Biology, P. K. Gupta (Author)

Website:

1. <https://academic.oup.com/mbe>
2. <https://www.springer.com/>

Journal

1. <https://journals.asm.org/journal/mcb>
2. <https://bmcmolbiol.biomedcentral.com/>
3. <https://www.journals.elsevier.com/journal-of-molecular-biology>

Course Code 19MPT1GE02	Course Name: Kinesiotaping	Theory	Practical	Total Credit
	Total Contact Hours -135	4	2	6
	Prerequisite Course - BPT			
	Course Coordinator:			
Course Outcomes (CO)				
CO1	Describe the concepts of Kinesio Taping.			
CO2	Describe the unique qualities of the Kinesio Tex Tape.			
CO3	Utilize and demonstrate application skills in guided laboratory sessions.			
CO4	Demonstrate application skills during lab sessions.			
CO5	Practice the various cutting techniques and their clinical application.			

Mapping of Course Outcomes with Program outcomes (POs) (1/2/3 indicates strength of correlation 3-High, 2 Medium, 1 Low)																	
CO/ PO/ PSO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3	2	3	3	3	3	3	3	3	3	3	2	3
CO2	3	3	3	3	3	3	3	3	2	3	3	3	3	3	2	3	3
CO3	3	3	3	3	3	3	2	3	3	3	3	3	3	3	3	3	2
CO4	3	3	3	2	3	3	3	3	3	3	3	3	3	3	3	3	3
CO5	3	3	3	3	3	2	3	3	3	3	3	3	2	3	3	3	3

KINESIOTAPING

Syllabus

Unit I: Introduction- Theory- Basics of Application-Contra indications- Precautions

Unit II: K-Tape Material- Physiological & Therapeutic effects- Clinical Applications

Unit III: Types of Application- Stretch

Unit IV : Various fields- Sports- Pregnancy- orthopedics, etc.

Unit V : K-Taping research- Evidences-Future

References:

1. Kinesiology Taping For Rehab And Injury Prevention - Kim Aliana
2. Practical Guide to Kinesiology Taping for Injury Prevention and Common Medical Conditions, Gibbons John
3. NeuroMuscular taping -Edi Ermes Usa, David Blow
4. Kinesiology Taping: The Essential Step-by-step Guide - Langendoen, John And Sertel, Karin

Website :

1. <https://kinesiotaping.com/>
2. <https://www.k-taping.com/en/>

Course Code 19MPT1CT01	Course Name: Clinical Training I	Total Credit
	Total Contact Hours - 255	3
	Prerequisite Course - BPT	
	Course Coordinator:	
Course Outcomes (CO)		
CO1	Explain the components of basic assessment for a patient.	
CO2	List the impairments resulting in functional limitation and participation restriction.	
CO3	Demonstrate clinical observatory skill and the bedside manners.	
CO4	Understanding of policy of the inpatient service and outpatient services.	
CO5	Understand the role of physiotherapy in various clinical conditions and the documentation of patient service.	

Mapping of Course Outcomes with Program Outcomes (1/2/3 indicates strength of correlation 3-High, 2 Medium, 1 Low)																	
CO/ PO/ PSO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	2	3	3	3	3	3	3	3	3	3	2	3	3	3	3
CO2	3	3	3	3	3	3	2	3	3	3	3	3	3	3	2	3	3
CO3	3	3	3	3	2	3	3	3	3	3	3	3	3	3	3	3	2
CO4	3	3	3	3	3	3	3	3	2	3	3	3	3	2	3	3	3
CO5	3	3	3	3	3	3	2	3	3	3	3	3	3	3	3	2	3

CLINICAL TRAINING I

Syllabus

Unit I : Postings for Observation , evaluation and assessment of cases in Physio care for Musculoskeletal, Sports injuries, Hand injury-patients

Unit II : Aurogreen postings for Aquatic therapy

Unit III : FitnessOne and EXRX postings for Fitness

Unit IV : Pain and stroke posting for clinical evaluation,gait analysis

Unit V : NIEPMD Postings for Physically challenged.

SEMESTER II - COURSE OUTCOME, CO PO MAPPING

Course Code 19MPT2MC01	Course Name: Movement Science	Theory	Practical	Total Credit
	Total Contact Hours -165	6	2	8
	Prerequisite Course -BPT			
	Course Coordinator:			
Course Outcomes (CO)				
CO1	Apply fundamental human movement principles, from both natural and social science perspectives.			
CO2	Understanding of the form and function of the human body.			
CO3	Critically evaluate human movement research in order to design and generate disciplinary knowledge.			
CO4	Use qualitative and quantitative reasoning and evidence, synthesizing information from a variety of origins.			
CO5	Evaluate methodically and systematically problems and develop interventions in the human movement domain.			

Mapping of Course Outcomes with Program Outcomes (1/2/3 indicates strength of correlation 3-High, 2 Medium, 1 Low)																	
CO/ PO/ PSO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	2	3	3	3	3	3	3	3	3	3	3	3	3	2	3
CO2	3	3	3	3	3	3	2	3	3	3	3	3	2	3	3	3	3
CO3	3	3	3	3	3	3	3	3	2	3	3	3	3	3	3	3	2
CO4	3	3	3	2	3	3	3	3	3	3	3	3	3	2	3	3	3
CO5	3	2	3	3	3	3	3	3	3	3	3	3	3	3	3	2	3

MOVEMENT SCIENCE

Syllabus

UNIT I : APPLIED ANATOMY: Voluntary movement- neural control – tone- pathways

UNIT II : APPLIED ANATOMY: Kinetics- kinematics – application in spasticity – flaccid paralysis

UNIT III : PATHOMECHANICS : Biomechanics – pathomechanics of extremities – spine – functional analysis

UNIT IV : PATHOMECHANICS :Gait - Kinematic Analysis of Gait – Force Platform - Robotics– Posture
-Significance of functional MRI.

UNIT V : Mobility Aids – ergonomics at industry – workplace – Job analysis – rehabilitation

Reference

1. Basic biomechanics of the musculoskeletal system by Margareta Nordin and Victor H. Frankle, 2nd edition (Lea and Febiger)
2. Kinesiology of the Human Body: Under Normal and pathological condition by Arthur Steindler, 5th edition (Charles C Thomas, 1977)
3. Joint Structure & Function :A comprehensive analysis by Cynthia C Norkin, Pamela K Levangie (Jaypee Brothers, 2006)
4. Brunnstrom's Clinical Kinesiology by Laura K. Smith & Don Lehmkuh, 5th edition (F A Davis, 1996)
5. The Physiology of the Joints by Kapandji & Matthew J Kendel (Churchill Livingstone, 2008)
6. Clinical Biomechanics of the Spine by Augustus A White & Manohar M Panjabi, 2nd Edition (Lippincott Williams & Wilkins; 1990)
7. Kinesiology :The mechanics and Pathomechanics of Human Movement by Carol Oatis (Lippincott Williams & Wilkins; 2008)
8. Kinesiology: Application to pathological motion by Soderberg, 2nd Edition (Williams & Wilkins, 1997)

Course Code 19MPT2MC02	Course Name: Advanced Therapeutics	Theory	Practical	Total Credit
	Total Contact Hours -165	5	3	8
	Prerequisite Course -BPT			
	Course Coordinator:			
Course Outcomes (CO)				
CO1	Implement a standardised approach to patient care in complex acute care settings.			
CO2	Describe the pathophysiology of selected disease states and explain the rationale and expected outcomes for drug therapy.			
CO3	Use current best evidence to determine and justify a valid/optimal therapeutic approach to management of these disease states.			
CO4	Develop, with an evidence based rationale, customised management and monitoring plans considering patient specific parameters, clinical test results and pharmacokinetic parameters.			
CO5	Critically reflect on and consolidate their individual learning process and progress in clinical competence.			

Mapping of Course Outcomes with Program Outcomes (1/2/3 indicates strength of correlation 3-High, 2 Medium, 1 Low)																	
CO/ PO/ PSO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3	3	3	3	3	2	3	3	3	3	3	3	2
CO2	3	3	3	3	3	3	3	2	3	3	3	3	3	3	2	3	3
CO3	3	3	3	3	3	3	3	3	3	3	3	2	3	3	3	3	2
CO4	3	3	3	2	3	3	3	3	3	3	3	3	3	2	3	3	3
CO5	3	3	3	3	3	2	3	3	3	3	3	3	3	3	3	2	3

ADVANCED THERAPEUTICS

Syllabus

UNIT I EXERCISE THERAPY : Evaluation – prescription – concepts – physiological effects – limitation – clinical indications – care points – progression

- Documentation – types of exercises – strength endurance – role of biomedical engineering

UNIT II ELECTROTHERAPY : Electrotherapy low frequency, medium and high frequency equipments – limitations , effects , uses , indications , contraindications , safety precautions – electrotherapeutic – EMG Biofeedback

UNIT III MANUAL THERAPY : History – concepts indications – contraindication – safety precautions – evaluation – joint mobilization techniques

UNIT IV : Soft tissue techniques – muscle energy techniques – myofascial release , TP release – PR technique – neural tissue mobilisation

UNIT V : Clinical examination – disability evaluation – differential diagnosis – prescription of modalities – evaluation prognosis – documentation – evidence based practise

Reference

Books

- 1 Text Book of work Physiology - Guyton, Prim Books Bangalore - 1991, 8th Edition.
- 2 Physicals agents in rehabilitation: from research to practical by Michell H. Cameron, 2nd edition (Saunders and Elsevier, 2003)
- 3 Therapeutic Modalities for Allied Health Professionals by William E. Prentice and Frank Underwood (McGraw-Hill, 1998)

Journal

1. European journal of physiotherapy (advances in physiotherapy)
2. Archives of physical medicine and rehabilitation
3. Indian journal of physical therapy
4. International journal of therapy and rehabilitation
5. Journal of rehabilitation medicine

Course Code 19MPT2GE01	Course Name: Health Economics	Theory	Practical	Total Credit
	Total Contact Hours -135	4	2	6
	Prerequisite Course - BPT			
	Course Coordinator:			
Course Outcomes (CO)				
CO1	Community physiotherapist in natural and man-made disasters and disaster management.			
CO2	Need of health economics and methods of economic analysis in health.			
CO3	Definition and types of medical records, importance of medical record.			
CO4	Quality control and management- principles and methods.			
CO5	Inventory control and purchase management.			

Mapping of Course Outcomes with Program Outcomes (1/2/3 indicates strength of correlation 3-High, 2 Medium, 1 Low)																	
CO/ PO/ PSO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3	3	3	3	3	3	3	2	3	3	3	2	3
CO2	3	3	3	3	3	3	3	3	3	2	3	3	3	3	2	3	3
CO3	3	3	3	3	3	3	2	3	3	3	3	3	2	3	3	3	3
CO4	3	3	3	3	2	3	3	3	3	3	3	3	3	3	3	3	2
CO5	3	3	3	3	3	3	3	3	3	2	3	3	3	2	3	3	3

HEALTH ECONOMICS

Syllabus

Unit I: Ethical principles in health economic analysis

Unit II: Measuring status of health and cost of illness

Unit III : Different health economic evaluations

Unit IV: Decision-analytic modelling

Unit V: Sensitivity analyses Insight in the use of health economic evaluations in real world

Reference

Text Books

1.Drummond, Michael F. Methods for the economic evaluation of health care programmes [updated and rev.] ed.: Oxford: Oxford University Press, 2005.

2.Brazier, John. Measuring and Valuing Health Benefits for Economic Evaluation
Oxford University Press, 2007.

Course Code 19MPT2GE02	Course Name: Yoga for Physiotherapist	Theory	Practical	Total Credit
	Total Contact Hours -135	4	2	6
	Prerequisite Course - BPT			
	Course Coordinator:			
Course Outcomes (CO)				
CO1	Demonstrate the introduction and principles of yoga.			
CO2	Knowledge of history of yoga and yoga in modern India.			
CO3	Outline of yoga background and importance of yoga in modern world.			
CO4	Learning the types and forms of asanas and description of physiological effect of yoga.			
CO5	Understanding the role of yoga in physiotherapy.			

Mapping of Course Outcomes with Program Outcomes (1/2/3 indicates strength of correlation 3-High, 2 Medium, 1 Low)																	
CO/ PO/ PSO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3	3	2	3	3	3	3	3	3	3	3	3	2
CO2	3	3	3	3	3	3	3	3	3	3	2	3	3	3	2	3	3
CO3	3	3	3	3	3	3	2	3	3	3	3	3	2	3	3	3	3
CO4	3	3	3	3	3	3	3	3	3	2	3	3	3	3	3	2	3
CO5	3	3	3	3	3	3	3	3	3	3	3	2	3	2	3	3	3

YOGA FOR PHYSIOTHERAPIST

Syllabus

Unit I: Scientific Study of yoga- types- Basics- Philosophy- Evolution -Physiologic & Therapeutic effects, Dangers- Precautions.

Unit II: Principle & Practice of Pranayama Hatha Yoga, clinical Applications

Unit III: Yoga & Human Systems, Yoga in Physical and Mental Health, Yoga for Personality Development- Yoga & Stress Management, Yoga & Pregnancy

Unit IV : Advanced Yoga Techniques -Research in Yoga

Unit V : Physiotherapy and Yoga, Clinical Applications of Yoga

Reference

- 1.Application in Yoga, Gharote, manmath M. ,Lonavla, 2008
- 2.The Complete book of Yoga, Sri Ananda, Orient Paper Backs, Delhi, 2003

Course. Code 19MPT2CT02	Course Name: Clinical Training II	Total Credit
	Total Contact Hours - 255	3
	Prerequisite Course - BPT	
	Course Coordinator:	
Course Outcomes (CO)		
CO1	Explain the components of basic assessment for a patient.	
CO2	List the impairments resulting in functional limitation and participation restriction.	
CO3	Demonstrate clinical observatory skill and the bed side manners.	
CO4	Understanding of policy of the inpatient service and outpatient services.	
CO5	Understand the role of physiotherapy in various clinical conditions and the documentation of patient service.	

Mapping of Course Outcomes with Program Outcomes (1/2/3 indicates strength of correlation 3-High, 2 Medium, 1 Low)																	
CO/ PO/ PSO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2
CO2	3	3	3	3	3	3	3	2	3	3	3	3	3	3	2	3	3
CO3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	3	3	3
CO4	3	3	3	3	3	2	3	3	3	3	3	3	3	3	3	3	2
CO5	3	3	3	2	3	3	3	3	3	3	3	3	3	3	3	3	2

CLINICAL TRAINING II

Syllabus

Unit I : Postings for Observation , evaluation and assessment of cases in Physio care for Musculoskeletal, Sports injuries, Hand injury-patients

Unit II : Aurogreen postings for Aquatic therapy

Unit III : FitnessOne and EXRX postings for Fitness

Unit IV : Pain and stroke posting for clinical evaluation,gait analysis

Unit V : NIEPMD Postings for Physically challenged.

SEMESTER III - COURSE OUTCOME, CO PO MAPPING

Course Code 19MPT3AE01	Course Name: Allied Elective in Cardiorespiratory Conditions	Theory	Practical	Total Credit
	Total Contact Hours -360	10	8	18
	Prerequisite Course –BPT			
	Course Coordinator:-			
Course Outcomes (CO)				
CO1	Understanding the importance of pediatric cardiorespiratory conditions.			
CO2	Understand about assessment and management of degenerative conditions.			
CO3	Understand the importance and management of cardiorespiratory conditions.			
CO4	Understand about complication impairment and disability and their management.			
CO5	Understand the geriatric conditions under the theories of ageing and physiological changes due to ageing.			

Mapping of Course Outcomes with Program Outcomes (1/2/3 indicates strength of correlation 3-High, 2 Medium, 1 Low)																	
CO/ PO/ PSO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3	3	2	3	3	3	3	3	3	3	3	3	2
CO2	3	3	3	3	3	3	3	3	2	3	3	3	3	3	2	3	3
CO3	3	3	3	3	3	3	3	3	3	2	3	3	3	3	3	3	2
CO4	3	3	3	3	3	3	2	3	3	3	3	3	2	3	3	3	3
CO5	3	3	3	3	3	3	3	3	2	3	3	3	3	3	3	2	3

ALLIED ELECTIVE IN CARDIORESPIRATORY CONDITIONS

Syllabus

Unit I : Anatomy applied anatomy - physiology - pathomechanics - related to cardio vascular and pulmonary system

Unit II :development of CV - pulmonary systems - age related changes of CV and pulmonary systems.

Unit III : Respiratory Conditions - Cardio vascular conditions - peripheral vascular diseases - investigations - medical treatment - surgical techniques - key hole surgeries - congenital conditions.

Unit IV : Mechanical ventilation - ICU - post operative care - suction - tracheostomy - Neonatal ICU - Non - invasive cardio - respiratory procedures.

Unit V : Cardio pulmonary fitness training - importance of team work - Life style modifications.

References

1. Crofton & doogles, Respiratory diseases Vol - 1 & II, SEATON, 1Ed, 2003.
2. Berne, Cardio - vascular physiology, Mosby, 4 Ed, 2012
3. Downie, Cash textbook of chest, heart & vascular disorders, ELBS, 1Ed, 2005.

Course Code 19MPT3CT03	Course Name: Clinical Training III	Total Credit
	Total Contact Hours - 255	3
	Prerequisite Course - BPT	
	Course Coordinator:	
Course Outcomes (CO)		
CO1	Explain the components of basic assessment for a patient.	
CO2	List the impairments resulting in functional limitation and participation restriction.	
CO3	Demonstrate clinical observatory skill and the bedside manners.	
CO4	Understanding of policy of the inpatient service and outpatient services.	
CO5	Understand the role of physiotherapy in various clinical conditions and the documentation of patient service.	

Mapping of Course Outcomes with Program Outcomes (1/2/3 indicates strength of correlation 3-High, 2 Medium, 1 Low)																	
CO/ PO/ PSO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3	3	2	3	3	3	3	3	3	3	3	3	2
CO2	3	3	3	3	3	3	3	3	2	3	3	3	3	2	3	3	3
CO3	3	3	3	3	3	3	3	3	3	3	3	2	3	3	3	3	2
CO4	3	3	3	3	3	3	3	3	3	3	2	3	3	3	2	3	3
CO5	3	3	3	3	3	3	3	3	3	3	3	3	2	3	3	2	3

CLINICAL TRAINING III

Syllabus

Unit I :ICU care in VHS

Unit II : Ventilator assisted patients care in VHS

Unit III : Patient fitness evaluation in physio care

Unit IV : Endurance training in Aaro green

unit V : EMG biofeedback in JOGO

SEMESTER IV - COURSE OUTCOME, CO PO MAPPING

Course Code 19MPT4AE01	Course Name: Elective in Advance Cardiorespiratory Conditions	Theory	Practical	Total Credit
	Total Contact Hours -360	10	8	18
	Prerequisite Course - BPT			
	Course Coordinator:			
Course Outcomes (CO)				
CO1	Understand the importance of growth and development of cardiorespiratory conditions.			
CO2	Understand about basic concept of cardiorespiratory diagnostics in physiotherapy assessment and management.			
CO3	Understand about the different types of manual therapy concepts used in physiotherapy for treating different cardiorespiratory physiotherapy conditions.			
CO4	Able to plan and prescribe short and long term physiotherapy treatment by selecting appropriate mode of evaluation and interventions.			
CO5	Understand the concepts of rehabilitation and delivery of health care with medical team work.			

Mapping of Course Outcomes with Program Outcomes (1/2/3 indicates strength of correlation 3-High, 2 Medium, 1 Low)																	
CO/ PO/ PSO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3	2	3	3	3	3	3	3	3	3	2	3	3
CO2	3	3	3	3	3	3	3	2	3	3	3	3	3	3	3	3	2
CO3	3	3	3	3	3	3	3	3	3	2	3	3	3	2	3	3	3
CO4	3	3	3	3	3	3	3	3	3	3	3	2	3	3	3	2	3
CO5	3	3	3	3	3	3	3	2	3	3	3	3	2	3	3	3	3

ELECTIVE IN ADVANCE CARDIORESPIRATORY CONDITIONS

Unit I : Anatomy applied anatomy - physiology - pathomechanics - related to cardio vascular and pulmonary system

Unit II : development of CV - pulmonary systems - age related changes of CV and pulmonary systems.

Unit III : Respiratory Conditions - Cardio vascular conditions - peripheral vascular diseases - investigations - medical treatment - surgical techniques - key hole surgeries - congenital conditions.

Unit IV : Mechanical ventilation - ICU - post operative care - suction - tracheostomy - Neonatal ICU - Non - invasive cardio - respiratory procedures.

Unit V : Cardio pulmonary fitness training - importance of team work - Life style modifications.

References

1. Crofton & doogles, Respiratory diseases Vol - 1 & II, SEATON, 1Ed, 2003.
2. Berne, Cardio - vascular physiology, Mosby, 4 Ed, 2012
3. Downie, Cash textbook of chest, heart & vascular disorders, ELBS, 1Ed, 2005.
4. Charles V Pollack-Differential Diagnosis of Cardio Pulmonary Disease
5. Alexander Hough - Phyiotherapy in Respiratory Care
6. Ellen Hillegass-Essentials of Cardio Pulmonary PT
7. Darlene Reid-Cardiopulmonary Physical Therapy
8. Robert M.Kacmarek - EGAN'S Fundamentals of Respiratory care
9. Donna Frownfelter-Cardio Pulmonary Physical Therapy 3rd ed
10. Pryor & Webber-Physiotherapy for Respiratory & Cardiac problems 2nd ed
11. Cash-Text book of Chest Heart and Vascular Disorders
12. Fishman-Pulmonary Diseases & Disorders vol 1 & 2 4th ed
13. Goldberger's-Clinical Electrocardiography
14. Kaplan - Clinical Hypertension - 11th Ed
15. Kulkarni - Pediatric Cardiology
16. Scot Irwin - Cardiopulmonary Physical Therapy

Course Code 19MPT4CT04	Course Name: Clinical Training IV	Total Credit
	Total Contact Hours -255	3
	Prerequisite Course - BPT	
	Course Coordinator:	
Course Outcomes (CO)		
CO1	Explain the components of basic assessment for a patient.	
CO2	List the impairments resulting in functional limitation and participation restriction.	
CO3	Demonstrate clinical observatory skill and the bedside manners.	
CO4	Understanding of policy of the inpatient service and outpatient services.	
CO5	Understand the role of physiotherapy in various clinical conditions and the documentation of patient service.	

Mapping of Course Outcomes with Program Outcomes (1/2/3 indicates strength of correlation 3-High, 2 Medium, 1 Low)																	
CO/ PO/ PSO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	3	3	3	3	2	3	3	3	3	3	3	2	3
CO2	3	3	3	3	3	3	3	3	3	3	2	3	3	2	3	3	3
CO3	3	3	3	3	3	3	3	2	3	3	3	3	3	3	3	3	2
CO4	3	3	3	3	3	2	3	3	3	3	3	3	3	3	2	3	3
CO5	3	3	3	3	3	3	3	3	3	3	2	3	3	3	3	3	2

CLINICAL TRAINING IV

Syllabus

Unit I :ICU care in VHS

Unit II : Ventilator assisted patients care in VHS

Unit III : Patient fitness evaluation in physio care

Unit IV : Endurance training in Aaro green

unit V : EMG biofeedback in JOGO