



Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

(Declared as Deemed-to-be University under section 3 of UGC Act 1956)

CIRCULAR

09.06.2017

The School of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on **Certificate Course of Accelerating C, C++, Open CI & RTL Application** for the benefit of students. This course is scheduled from 12.06.2017 to 24-06-2017 which includes theory and practical. The timings are 9:30 AM to 12:30 PM (FN) and 1:30 PM to 4:30 PM(AN) and Saturday (FN&AN).

All Registered Students must attend all the classes without fail. The following faculty members are assigned to handle the course. S.NO	Name of the Faculty	Designation
1	Dr.C.Rajabhusanam	Professor
2	Ms.C.Geetha	Assistant Professor

Head of Department

To

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HEAD OF DEPARTMENT
Department of Computer Science & Engg.,
Bharath Institute of Higher Education & Research
(Declared as Deemed to be University U/S 3 of UGC Act, 1956)
Chennai-600 073. INDIA



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INSTITUTE OF HIGHER EDUCATION AND RESEARCH

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CERTIFICATE COURSE ON ACCELERATING C, C++, OPEN CL & RTL APPLICATION

Date of Introduction of the Course: 24.07.2017

COURSE SYLLABUS

1. Introduction of OpenCL Framework

Explains how application developers can Open Computing Language (OpenCL) framework

2. OpenCL Framework Fundamentals -1

Describes OpenCL framework models such as the Platform model, Execution model, Memory model, and Programming model.

3. OpenCL Framework Fundamentals -2

Describes OpenCL framework components such as the OpenCL platform API, OpenCL run-time API, and OpenCL programming language.

4. Synchronization

Describes OpenCL synchronization techniques such as events, barriers, blocking write/read, and the benefit of using out-of-order execution.

5. Introduction to ND Ranges

Explains the basics of ND Range (N dimensional range) and the OpenCL execution model that defines how kernels execute with the ND Range definition. Functions

6. Working with ND Ranges

Explains the host code and kernel code changes with respect to ND Range. Also explains how ND Range works and the best way to represent the work-group size for the FPGA architecture.

7. Profiling

Describes the different reports generated by the tool that help to optimize data transfer and kernel optimization.

8. Debugging

Explains the support for debugging host code and kernel code as well as tips to debug the system.

9. Optimization Methodologies

Describes the recommended flow for optimizing an application in the environment.

10. Memory Transfer Optimization Techniques

Describes the various optimization techniques for data transfer between kernels and global memory.

11. Kernel Optimization Techniques

Apply different techniques such as loop unrolling, pipelining, and DATAFLOW.

12. Using the RTL Kernel Wizard to Reuse Existing IP as Accelerators

Describes how the environment provides RTL kernel developers with a framework to integrate their hardware functions into an application running on a host PC connected to an FPGA via a PCIe interface.

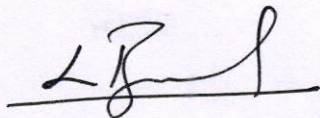
COURSE OBJECTIVES

This course helps to develop, debug, and profile new or existing OpenCL™, C/C++, and RTL applications development environment for use on Xilinx FPGAs. Also learn how to run designs on the Alveo™ accelerator card using Nimble Cloud. The focus is on learning how to utilize techniques in the RTL environment to Reduce latency Utilize the massive parallelism inherent to FPGAs Optimize throughput Pipeline for performance This course also provides an introduction to targeting the Alveo accelerator card.

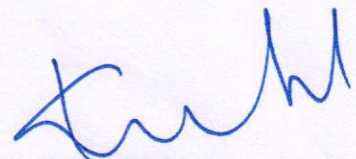
Specifically, the course has the following objectives:

Students will learn

1. Describe how the FPGA architecture lends itself to parallel computing
2. Explain how the SDx development environment helps software developers to focus on applications
3. Examine the OpenCL API execution model
4. Analyze the OpenCL API memory model
5. Create kernels from C, C++, OpenCL, or RTL IP (using the RTL Kernel Wizard)
6. Apply host code optimization and kernel optimization techniques
7. Move data efficiently between kernel and global memory
8. Profile and debug OpenCL API code using development environment



COURSE COORDINATOR



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CERTIFICATE COURSE ON ACCELERATING C, C++, OPEN CL & RTL APPLICATION

Date of Introduction of the Course: 24.07.2017

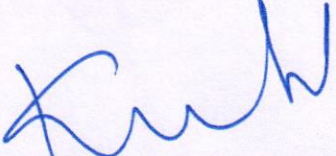
The timings are 9:30 AM to 12:30 PM (FN) and 1:30 PM to 4:30 PM(AN)
Saturday (FN&AN).

Time Table & Lesson plan

CLASS	DATE	TOPIC
1,	12-06-2017(FN)	1. Introduction of OpenCL Framework Explains how application developers can Open Computing Language (OpenCL) framework
2	13-06-2017(FN)	2. OpenCL Framework Fundamentals -1 Describes OpenCL framework models such as the Platform model, Execution model, Memory model, and Programming model.
3,4	14-06-2017(FN) 14-06-2017(AN)	3. OpenCL Framework Fundamentals -2 Describes OpenCL framework components such as the OpenCL platform API, OpenCL run-time API, and OpenCL programming language.
5	15-06-2017(FN))	4. Synchronization Describes OpenCL synchronization techniques such as events, barriers, blocking write/read, and the benefit of using out-of-order execution.
6	16-06-2017(FN)	5. Introduction to ND Ranges Explains the basics of ND Range (N dimensional range) and the OpenCL execution model that defines how kernels execute with the ND Range definition. Functions
7,8	17-06-2017(FN) 17-06-2017(AN)	6. Working with ND Ranges Explains the host code and kernel code changes with respect to ND Range. Also explains how ND Range works and the best way to represent the work-group size for the FPGA architecture.
9	19-06-2017(FN)	7. Profiling Describes the different reports generated by the tool that help to optimize data transfer and kernel optimization.
10,11	20-06-2017(FN) 20-06-2017(AN)	8. Debugging Explains the support for debugging host code and kernel

		code as well as tips to debug the system.
12	21-06-2017(FN)	9. Optimization Methodologies Describes the recommended flow for optimizing an application in the environment.
13	22-06-2017(FN)	10. Memory Transfer Optimization Techniques Describes the various optimization techniques for data transfer between kernels and global memory.
14,15	23-06-2017(FN) 23-06-2017(AN)	11. Kernel Optimization Techniques Apply different techniques such as loop unrolling, pipelining, and DATAFLOW
16,17	24-06-2017(FN) 24-06-2017(AN)	12.Using the RTL Kernel Wizard to Reuse Existing IP as Accelerators Describes how the environment provides RTL kernel developers with a framework to integrate their hardware functions into an application running on a host PC connected to an FPGA via a PCIe interface.


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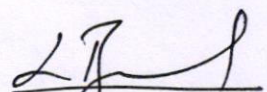


Course on Accelerating C, C++, Open Cl & RTL Application
Date of Introduction of the Course: 24.06.20217

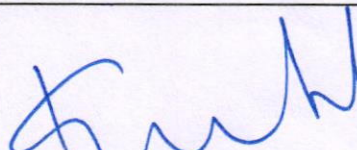
School of Computing
Registered Students Name List

S.NO	REG.NO	NAME OF THE STUDENT
1	U17CS024	GANDHAM VENKATATESWARA RAO .
2	U17CS025	DEME VAMSHI KRISHNA .
3	U17CS026	JONNAGADDALA PAVAN KUMAR NAIDU .
4	U17CS027	MANI SHANKAR G
5	U17CS028	DEEPIKA R
6	U17CS029	GONE ESHWAR MANI SAI .
7	U17CS030	MOGALI NAGENDRA SAI CHARAN TEJ
8	U17CS132	MOHAMED IMRAN NAZEER K
9	U17CS133	MAHESWARAPU REVANTH CHANDRA SEKHAR .
10	U17CS134	RAJEEV RANJAN
11	U17CS135	KANCHANAPALLI SAI LAKSHMANA RAJU .
12	U17CS136	THUVAPALLI SAIKUMARREDDY
13	U17CS137	JANAPAREDDY SRIRAM
14	U17CS138	KONDAKINDI SHASINDER REDDY .
15	U17CS139	BELLAMKONDA SANTHOSH
16	U17CS140	TANGUTURI VENKA SAI PAVAN KUMAR
17	U17CN024	MALLEPAKA SRI VARSHITH .
18	U17CN025	KONDRA SRINU
19	U17CN026	PODAMEKALA VAMSIKRISHNA
20	U17CN027	MUDRAKOLA SAITEJA
21	U17CN028	ONTEDDU DHANA LAKSHMI .
22	U17CN029	GARIKIPATI NAGA SIVA DORA .
23	U17CN030	MARUKURTI ANIL
24	U17CN031	JAIRUS HOLSON J
25	U17CN033	JADAV BAL CHARAN .
26	U17CN034	KOMMARAJULA PRAVEEN KUMAR .
27	U17CN035	SAMSUNDAR S
28	U17CN036	MANDATI RATHNAKAR
29	U17CN037	KARRA NAGARAJU
30	U17CS053	GASI VENU GOPAL .
31	U17CS054	BELLAMKONDA KRISHNA VIVEK .
32	U17CS055	BELLAMKONDA VENKATA SIVA SAI MANIKANTA
33	U17cs056	DODDA ANUSHA
34	U17CS057	BOLLA SAI PRAKASH .

35	U17CS058	BANDARI RANJITH REDDY .
36	U17CS059	REKAPALLISASAANK .
37	U17CS060	KONKALA GURU PAVAN KUMAR .
38	U17CS061	AVINASH REDDY THIYYAGURA .
39	U17CS062	YANAMANDALA KAMALAKARA NAVEEN .
40	U17CS063	SHAIK AFREED
41	U17CS064	NIRMALA DEVI S
42	U17CS707	ABHIJEET SINGH
43	U17CN038	NAKKANI SIVATEJA
44	U17CN039	KANTHETI MONI PRASAD .
45	U17CN040	VIKRAM DEV SAHU .
46	U17CN041	MEKALA LAKSHMI NARAYANA .
47	U17CN042	MUKKU MADHAVA REDDY .



COURSE COORDINATOR



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Bharath UNIVERSITY

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BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH

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CERTIFICATE OF PARTICIPATION



Ms.A.Sangeetha

For actively participating in the value added course “**Accelerating C,C++,
Open CI & RTL Application**” Conducted by School of Computing, BIHER
from 12.06.2017 to 24-06-2017.

Course Coordinator

Head of the Department

Director

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CERTIFICATE COURSE ON ACCELERATING C, C++, OPEN CL & RTL APPLICATION

Introduction of the Course: 24.07.2017



Course Coordinator

Head of the Department

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COURSE FEEDBACK FORM

Academic Year		2017-2018								
Term		Term 2								
Course Number										
Course Title		Accelerating C, C++, Open Cl & RTL Application								
Number of Credits										
Type of Course	Regular		Elective		Add-on				<input checked="" type="checkbox"/>	
I. Information on the Respondent: (Tick (✓) Appropriately)										
1. Percentage of classes attended										
	0-20		20-40		40-60		60-80		80-100	<input checked="" type="checkbox"/>
2. Number of hours per week spent on the course (Other than lecture hours)										
	0-2		2-4		4-6		6-8	<input checked="" type="checkbox"/>	8-10	
3. Preparation for the course by the student:										
(i)	Have done part of this course earlier									
(ii)	Has adequate prior exposure to the prerequisites									
(iii)	Had to pickup relevant additional topics through concurrent study <input checked="" type="checkbox"/>									
(iv)	Have no exposure to the background material									
4. The expectations for taking the course by the student are:										
(a)	Enhance by skill base in the area of specializations									
(b)	Get exposed to a relevant subject <input checked="" type="checkbox"/>									
(c)	Curiosity									
(d)	Better Employment Opportunity <input checked="" type="checkbox"/>									
(e)	Complete Course requirements									
(f)	To Improve CGPA									
About the Instructor: Information on the Respondent: (Tick (✓) Appropriately)										
		A	B	C	D	E				
1.	Pace of the Teaching/lecture		<input checked="" type="checkbox"/>							
2.	Comment of the Subject	<input checked="" type="checkbox"/>								
3.	Clarity of expression		<input checked="" type="checkbox"/>							
4.	Level of preparation	<input checked="" type="checkbox"/>								
5.	Level of interaction	<input checked="" type="checkbox"/>								
6.	Accessibility outside the class		<input checked="" type="checkbox"/>							
7.	Others (please specify)	<input checked="" type="checkbox"/>								
A: Excellent		B: Very Good		C: Good		D: Satisfactory		E: Poor		


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COURSE FEEDBACK FORM

Academic Year		2017-2018					
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Number of Credits							
Type of Course	Regular		Elective		Add-on	<input checked="" type="checkbox"/>	
I. Information on the Respondent: (Tick (√) Appropriately)							
1. Percentage of classes attended							
0-20		20-40		40-60	<input checked="" type="checkbox"/>	60-80	80-100
2. Number of hours per week spent on the course (Other than lecture hours)							
0-2		2-4		4-6		6-8	<input checked="" type="checkbox"/>
3. Preparation for the course by the student:							
(i)	Have done part of this course earlier						
(ii)	Has adequate prior exposure to the prerequisites						
(iii)	Had to pickup relevant additional topics through concurrent study <input checked="" type="checkbox"/>						
(iv)	Have no exposure to the background material						
4. The expectations for taking the course by the student are:							
(a)	Enhance by skill base in the area of specializations						
(b)	Get exposed to a relevant subject <input checked="" type="checkbox"/>						
(c)	Curiosity <input checked="" type="checkbox"/>						
(d)	Better Employment Opportunity <input checked="" type="checkbox"/>						
(e)	Complete Course requirements <input checked="" type="checkbox"/>						
(f)	To Improve CGPA						
About the Instructor: Information on the Respondent: (Tick (√) Appropriately)							
		A	B	C	D	E	
1.	Pace of the Teaching/lecture	<input checked="" type="checkbox"/>					
2.	Comment of the Subject	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
3.	Clarity of expression		<input checked="" type="checkbox"/>				
4.	Level of preparation	<input checked="" type="checkbox"/>					
5.	Level of interaction		<input checked="" type="checkbox"/>				
6.	Accessibility outside the class	<input checked="" type="checkbox"/>					
7.	Others (please specify)		<input checked="" type="checkbox"/>				
A: Excellent		B: Very Good		C: Good		D: Satisfactory	
						E: Poor	

[Signature]
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CIRCULAR

24.07.2017

The School of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on **Cyber Security** for the benefit of II, III and IV year students. This course is scheduled from 28.07.2017 for 30 hours which includes theory and practical. The timings are 9:30 AM to 12:30 PM on Friday (FN) and Saturday (FN&AN).

All Registered Students must attend all the classes without fail. The following faculty members are assigned to handle the course. S.NO	Name of the Faculty	Designation
1	Dr.C.Rajabhushanam	Professor
2	R.Velvizhi	Assistant Professor

Head of Department

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CERTIFICATE COURSE ON CYBER SECURITY

Date of Introduction of the Course: 24.07.2017

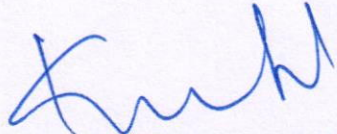
The timings are 9:30 AM to 12:30 PM Friday (FN) and Saturday (FN&AN).

Time Table & Lesson plan

CLASS	DATE	TOPIC
1,2	28-07-2017(FN)	1. INTRODUCTION TO CYBER SECURITY History of Internet - Cyber Security Basics, Security Principles - Authentication - Access Control and Cryptography
3,4	29-07-2017(FN & AN)	2. CYBER THREATS Cyber Warfare-Cyber Crime-Cyber terrorism-Cyber Espionage, Need for a Comprehensive Cyber Security Policy, Need for a Nodal Authority, Need for an International convention on Cyberspace.
5,6	04-08-2017(FN) 05-08-2017(FN)	3. CYBER SECURITY VULNERABILITIES Overview, vulnerabilities in software, System administration, Complex Network Architectures, Open Access to Organizational Data, Weak Authentication, Unprotected Broadband communications, Poor Cyber Security Awareness.
7,8	05-08-2017(AN) 11-08-2017(FN)	4. CYBER SECURITY SAFEGUARDS Overview, Access control, Audit, Authentication, Biometrics, Cryptography, Deception, Denial of Service Filters, Ethical Hacking, Firewalls, Intrusion Detection Systems, Response, Scanning, Security policy, Threat Management.
9,10	12-08-2017(FN&AN)	5. SECURITY IN OPERATING SYSTEM & NETWORKS Security in Operating Systems - Security in the Design of Operating Systems -Rootkit - Network security attack-Threats to Network Communications - Wireless Network Security - Denial of Service - Distributed Denial-of-Service
11,12	18-08-2017(FN)	6. CYBER ATTACKS Motives, Common Attacks, Defence Strategies and Techniques.
13,14	18-08-2017(FN) 19-08-2017(FN)	7. DEFENCES: SECURITY COUNTERMEASURES Cryptography in Network Security - Firewalls - Intrusion Detection and Prevention Systems - Network Management - Databases - Security Requirements of Databases - Reliability and Integrity - Database Disclosure - Data Mining and Big Data.

15,16	19-08-2017(AN)	8. PRIVACY IN CYBERSPACE Privacy Concepts -Privacy Principles and Policies - Authentication and Privacy - Data Mining -Privacy on the Web - Email Security - Privacy Impacts of Emerging Technologies - Where the Field Is Headed.
17,18	25-08-2017(FN)	9. COMPUTER FORENSICS Computer Forensics Analysis and Validation - Current Computer Forensics Tools - Virtual Machines, Network Forensics, and Live Acquisitions - E-mail Investigations - Cell Phone and Mobile Device Forensics
19,20	26-08-2017(AN)	10. SECURING WEB APPLICATION, SERVICES AND SERVERS Introduction, Basic security for HTTP Applications and Services, Basic Security for SOAP Services, Identity Management and Web Services, Authorization Patterns, Security Considerations, Challenges.
21,22	01-09-2017(FN)	11. CHOOSING THE BEST BROWSER ACCORDING TO THE REQUIREMENT AND EMAIL SECURITY Guidelines to choose web browsers, securing web browser, Antivirus, Email security
23,24	01-09-2017(FN)	12. GUIDELINES FOR SECURE PASSWORD AND WI-FI SECURITY Guidelines for setting up a Secure password, Two-steps authentication, Password Manager, Wi-Fi Security
25,26	08-09-2017(FN)	13. CYBER SECURITY THREAT LANDSCAPE AND TECHNIQUES Cyber Security Threat Landscape, Emerging Cyber Security Threats, Cyber Security Techniques, Firewall
27,28	09-09-2017(FN)	14. ONLINE BANKING, CREDIT CARD AND UPI SECURITY Online Banking Security, Mobile Banking Security, Security of Debit and Credit Card, UPI Security.
29,30	09-09-2017(AN)	15. CYBER SECURITY INITIATIVES IN INDIA Counter Cyber Security Initiatives in India, Cyber Security Exercise, Cyber Security Incident Handling, Cyber Security Assurance.


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CERTIFICATE COURSE ON CYBER SECURITY

Date of Introduction of the Course: 24.07.2017

COURSE SYLLABUS

1. INTRODUCTION TO CYBER SECURITY

History of Internet - Cyber Security Basics, Security Principles - Authentication - Access Control and Cryptography

2. CYBER THREATS

Cyber Warfare-Cyber Crime-Cyber terrorism-Cyber Espionage, Need for a Comprehensive Cyber Security Policy, Need for a Nodal Authority, Need for an International convention on Cyberspace.

3. CYBER SECURITY VULNERABILITIES

Overview, vulnerabilities in software, System administration, Complex Network Architectures, Open Access to Organizational Data, Weak Authentication, Unprotected Broadband communications, Poor Cyber Security Awareness.

4. CYBER SECURITY SAFEGUARDS

Overview, Access control, Audit, Authentication, Biometrics, Cryptography, Deception, Denial of Service Filters, Ethical Hacking, Firewalls, Intrusion Detection Systems, Response, Scanning, Security policy, Threat Management.

5. SECURITY IN OPERATING SYSTEM & NETWORKS

Security in Operating Systems - Security in the Design of Operating Systems -Rootkit - Network security attack- Threats to Network Communications - Wireless Network Security - Denial of Service - Distributed Denial-of-Service

6. CYBER ATTACKS

Motives, Common Attacks, Defence Strategies and Techniques.

7. DEFENCES: SECURITY COUNTERMEASURES

Cryptography in Network Security - Firewalls - Intrusion Detection and Prevention Systems - Network Management - Databases - Security Requirements of Databases - Reliability and Integrity - Database Disclosure - Data Mining and Big Data.

8. PRIVACY IN CYBERSPACE

Privacy Concepts -Privacy Principles and Policies -Authentication and Privacy - Data Mining - Privacy on the Web - Email Security - Privacy Impacts of Emerging Technologies - Where the Field Is Headed.

9. COMPUTER FORENSICS

Computer Forensics Analysis and Validation - Current Computer Forensics Tools - Virtual Machines, Network Forensics, and Live Acquisitions - E-mail Investigations - Cell Phone and Mobile Device Forensics

10. SECURING WEB APPLICATION, SERVICES AND SERVERS

Introduction, Basic security for HTTP Applications and Services, Basic Security for SOAP Services, Identity Management and Web Services, Authorization Patterns, Security Considerations, Challenges.

11. CHOOSING THE BEST BROWSER ACCORDING TO THE REQUIREMENT AND EMAIL SECURITY

Guidelines to choose web browsers, securing web browser, Antivirus, Email security

12. GUIDELINES FOR SECURE PASSWORD AND WI-FI SECURITY

Guidelines for setting up a Secure password, Two-steps authentication, Password Manager, Wi-Fi Security

13. CYBER SECURITY THREAT LANDSCAPE AND TECHNIQUES

Cyber Security Threat Landscape, Emerging Cyber Security Threats, Cyber Security Techniques, Firewall

14. ONLINE BANKING, CREDIT CARD AND UPI SECURITY

Online Banking Security, Mobile Banking Security, Security of Debit and Credit Card, UPI Security

15. CYBER SECURITY INITIATIVES IN INDIA

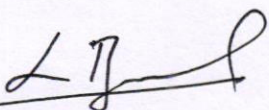
Counter Cyber Security Initiatives in India, Cyber Security Exercise, Cyber Security Incident Handling, Cyber Security Assurance.

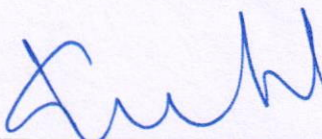
COURSE OBJECTIVES

This course is designed to teach mid-level security practitioners how to engage all functional levels within the enterprise to deliver information system security. To this end, the course addresses a range of topics, each of which is vital to securing the modern enterprise.

Specifically, the course has the following objectives:

- 1) Gain knowledge about securing both clean and corrupted systems, protect personal data, and secure computer networks.
- 2) The key terms and concepts in cyber law, intellectual property and cyber crimes, trademarks and domain theft.
- 3) To examine secure software development practices.
- 4) Gain familiarity with prevalent network and distributed system attacks, defenses against them, and forensics to investigate the aftermath.
- 5) Develop an understanding of security policies (such as confidentiality, integrity, and availability), as well as protocols to implement such policies.


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CERTIFICATE COURSE ON CYBER SECURITY

Date of Introduction of the Course: 24.07.2017

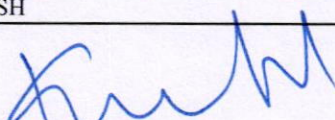
School of Computing

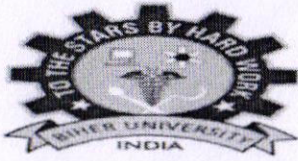
Registered Students Name List

S.NO	REG.NO	NAME OF THE STUDENT
1	U14CS001	AADHITYA MALLIKA ARJUN
2	U14CS005	ABDUR RASEED
3	U14CS006	ABHIKAMALI .A
4	U14CS007	ABHISHEK MANDURI
5	U14CS012	AMAR BASUMATARY
6	U14CS013	ANDREW JOSEPH.V
7	U14CS021	AREEF SYED
8	U14CS023	ASIF NAZIR WANI
9	U14CS024	ATUL ANAND
10	U14CS025	BACHU HARISH
11	U14CS026	BALA MURUGAN .P
12	U14CS029	BALAKRISHNAN.T
13	U14CS041	CHINTLA VENKATESH
14	U14CS042	CHUDAAMANI.V
15	U14CS051	GANESH RAJ .L
16	U14CS054	GONTLA KARTHIK
17	U14CS055	GOTTIPATI KARTHIK
18	U14CS702	S.KUMARAN
19	U14CS514	SATHISH RAJ
20	U14CS057	GOVIND KUMAR
21	U14CS058	HARI TEJA.G
22	U14CS059	HARISH.V
23	U14CS062	JERIPOTHULA SURESH GOUD
24	U14CS063	JOHN DALTON .H
25	U14CS064	K. LAKSHMIKANTH REDDY
26	U14CS067	KARTHICK.K
27	U14CS074	KESHAVAPRIYA .S

28	U14CS075	KEVIN ARNOLD THAKUR
29	U14CS080	KOVURI BALASUBHAKAR REDDY
30	U14CS081	KRISHNA SRIVASTAV.S.K
31	U14CS082	KRISHNANDAN YADAV
32	U14CS086	LOKESHWARAN.A.
33	U14CS089	MADIYAL ANJAY
34	U14CS092	MANDELA SAIKIRAN
35	U14CS102	MOHAMMED AABID
36	U14CS104	MOLUGURI PRADEEP CHANDRA
37	U14CS105	MOOTHI LAKSHMI PRASANNA
38	U14CS106	MUGANTH.R.
39	U14CS109	N.UMA VENKATA MAHESHWARA SWAMY
40	U14CS222	M.GANESH RAJAN
41	U14CS503	ARJHUN KUMAR.K
42	U14CS508	INDHU GOPALAKRISHNAN
43	U14CS710	SHOPMINISTER
44	U14CS113	NALLAJARLA CHAKRADHAR
45	U14CS114	NANDALA SWETHA
46	U14CS115	NANDIPALLI MOUNICA
47	U14CS136	RAHUL GOUD.P
48	U14CS137	RAHUL HAWAIBAM
49	U14CS138	RAHUL KUMAR
50	U14CS144	RAKESH KUMAR
51	U14CS145	RAKHI PRASAD
52	U14CS146	RAM KUMAR PANDEY
53	U14CS147	RAMANATHAN.J
54	U14CS149	RANGAPUR VIKAS REDDY
55	U14CS151	RAVIPATI SUBBARAYUDU
56	U14CS153	RONU SHARMA
57	U14CS155	TAMMINANA SAGAR
58	U14CS507	ELACATI JAGANNADHA HARSHITHA
59	U14CS509	MARAM REDDY RAJASEKHAR
60	U14CS175	SHUBHAM
61	U14CS176	SIREESHA.M
62	U14CS190	SWEETY SHIMAL
63	U14CS192	THARIGOPULA LOKESH


COURSE COORDINATOR


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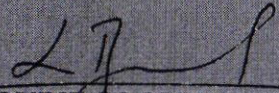
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CERTIFICATE OF PARTICIPATION


This certificate is presented to

HARI TEJA.G


For actively participating in the value added course "Cyber Security"
Conducted by School of Computing, BIHER from 28.07.2017 to 09.09.2017.



COURSE COORDINATORS



HEAD OF THE DEPARTMENT



DIRECTOR

COURSE FEEDBACK FORM

Academic Year		2017 - 2018			
Term		ODD SEM			
Course Number		CYBER SECURITY			
Course Title					
Number of Credits					
Type of Course	Regular		Elective		Add-on
					✓

I. Information on the Respondent: (Tick (✓) Appropriately)

1. Percentage of classes attended

0-20		20-40		40-60		60-80	✓	80-100	
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2. Number of hours per week spent on the course (Other than lecture hours)

0-2		2-4		4-6	✓	6-8		8-10	
-----	--	-----	--	-----	---	-----	--	------	--

3. Preparation for the course by the student:

(i)	Have done part of this course earlier	yes
(ii)	Has adequate prior exposure to the prerequisites	yes
(iii)	Had to pickup relevant additional topics through concurrent study	yes
(iv)	Have no exposure to the background material	yes

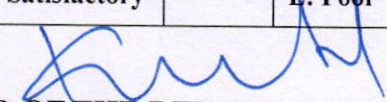
4. The expectations for taking the course by the student are:

(a)	Enhance by skill base in the area of specializations	yes
(b)	Get exposed to a relevant subject	yes
(c)	Curiosity	yes
(d)	Better Employment Opportunity	yes
(e)	Complete Course requirements	yes
(f)	To Improve CGPA	yes

About the Instructor: Information on the Respondent: (Tick (✓) Appropriately)

		A	B	C	D	E
1.	Pace of the Teaching/lecture		✓			
2.	Comment of the Subject		✓			
3.	Clarity of expression			✓		
4.	Level of preparation		✓			
5.	Level of interaction	✓				
6.	Accessibility outside the class			✓		
7.	Others (please specify)					

A: Excellent		B: Very Good		C: Good		D: Satisfactory		E: Poor	
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 Chennai-600 073. INDIA

COURSE FEEDBACK FORM

Academic Year		2019 - 2020			
Term		ODD SEM			
Course Number					
Course Title		CYBER SECURITY			
Number of Credits					
Type of Course	Regular		Elective		Add-on
					✓

I. Information on the Respondent: (Tick (✓) Appropriately)

1. Percentage of classes attended

0-20		20-40		40-60		60-80	✓	80-100
------	--	-------	--	-------	--	-------	---	--------

2. Number of hours per week spent on the course (Other than lecture hours)

0-2		2-4		4-6		6-8	✓	8-10
-----	--	-----	--	-----	--	-----	---	------

3. Preparation for the course by the student:

(i)	Have done part of this course earlier	yes
(ii)	Has adequate prior exposure to the prerequisites	yes
(iii)	Had to pickup relevant additional topics through concurrent study	yes
(iv)	Have no exposure to the background material	yes

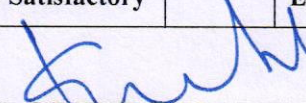
4. The expectations for taking the course by the student are:

(a)	Enhance by skill base in the area of specializations	yes
(b)	Get exposed to a relevant subject	yes
(c)	Curiosity	yes
(d)	Better Employment Opportunity	yes
(e)	Complete Course requirements	yes
(f)	To Improve CGPA	yes

About the Instructor: Information on the Respondent: (Tick (✓) Appropriately)

		A	B	C	D	E
1.	Pace of the Teaching/lecture		✓			
2.	Comment of the Subject		✓			
3.	Clarity of expression	✓				
4.	Level of preparation		✓			
5.	Level of interaction		✓			
6.	Accessibility outside the class					
7.	Others (please specify)	✓	✓			

A: Excellent		B: Very Good		C: Good		D: Satisfactory		E: Poor
--------------	--	--------------	--	---------	--	-----------------	--	---------


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CIRCULAR

08.08.2017

The School of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on **Web Designing** for the benefit of II, III and IV year students. This course is scheduled from 11.08.2017 for 30 hours which includes theory and practical. The timings are 1:30 PM to 4:30 PM from Friday (AN) and Saturday (FN&AN).

All Registered Students must attend all the classes without fail. The following faculty members are assigned to handle the course. S.NO	Name of the Faculty	Designation
1	Dr.C.Nalini	Professor
2	R.Velvizhi	Assistant Professor

Head of Department

To

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CERTIFICATE COURSE ON WEB DESIGNING


Date of Introduction of the Course: 08.08.2017


The timings are 1:30 PM to 4:30 PM from Friday (AN) and Saturday (FN&AN).

Time Table & Lesson plan

CLASS	DATE	TOPIC
1,2	11.8.2017(AN)	1. Introduction to Web Technologies Introduction to Web Technologies, Careers in Web Technologies and Job Roles, How the Website Works? , Client and Server Scripting Languages, Domains and Hosting, Responsive Web Designing, Types of Websites (Static and Dynamic Websites), Web Standards and W3C recommendations.
3,4	11.8.2017 (AN) 12.8.2017(FN)	2. HTML 4.01 and XHTML 1.1 What is Markup Language , Basic Structure of HTML , Difference Between HTML and XHTML , Head Section and Elements of Head Section , Meta Tags ,Css Tags ,Script Tag , Table Tag , Div Tag , Header Tags , Paragraph, Span, Pre Tags , Anchor Links and Named Anchors, Image Tag, Object Tag
5,6	12.8.2017(AN)	3. HTML 4.01 and XHTML 1.1 Forms ,Form Tag , Attributes of Form , POST and GET Method ,Fieldset and Legend ,Text input, Text area , Checkbox and Radio Button , Dropdown, List and Optgroup , File Upload and Hidden Fields ,Submit, Image, Normal, Reset Button , Creating a Live Website Form , HTML Validators
7,8	12.8.2017 (FN) 12.8.2017(AN)	4. CSS 2.1 Introduction to Cascading Style Sheets , Types of CSS , CSS Selectors , Universal Selector ,ID Selector , Tag Selector , Class Selector , Sub Selector ,Child Combinatory Selector , Adjacent Sibling Selector ,Attribute Selector
9,10	18.8.2017 (AN)	5. CSS 2.1 Group selector , First-line and First-letter selector , Before and After Selector Characterizing SaaS-Streamlining administration with centralized installation, Optimizing cost and performance with scale on demand
11,12	18.8.2017 (AN)	6. CSS Properties Type Properties, Background Properties,Block Properties, Box Properties, List Properties, Border Properties, Positioning Properties, Realtime Implementation

13,14	19.8.2017 (FN) 19.8.2017 (FN)	7. HTML 5 Introduction to HTML5, Features of HTML5, HTML5 DocType , New Structure Tags,Section , Nav , Article , Aside ,Header ,Footer , Designing a HTML Structure of Page , New Media Tags
15,16	19.8.2017 (FN)	8. HTML 5 Audio Tag ,Video Tag, Canvas and Svg Tag ,Introduction to HTML5 Forms, New Attributes, Placeholder Attribute, Require Attribute, Pattern Attribute, Autofocus Attribute, email , tel, url types
17,18	19.8.2017 (AN) 19.8.2017 (AN)	9. Responsive Web Design with Bootstrap Introduction to Responsive Design, Mobile first design concepts, Common device dimensions, View-port tag, Using css media queries, Menu conversion script
19,20	19.8.2017 (AN)	10. Responsive Web Design with Bootstrap Basic Custom Layout, Introduction to Bootstrap, Installation of Bootstrap, Grid System, Forms, Buttons, Icons Integration, Using CSS3 in Practical.
21,22	25.8.2017 (AN)	11. Java Script Introduction to Client Side Scripting, Introduction to Java Script, JavaScript Types, Variables in JS, Operators in JS , Conditions Statements , Java Script Loops. JS Popup Boxes.
23,24	25.8.2017 (AN) 26.8.2017 (FN)	12. Java script JS Events, JS Arrays , Working with Arrays , JS Objects ,JS Functions , Using Java Script in Real-time , Validation of Forms , Related Examples.
25,26	26.8.2017 (FN)	13. jQuery Introduction to jQuery, jQuery Features, Installing jQuery, jQuery Syntax, jQuery Ready Function.
27,28	26.8.2017 (FN) 26.8.2017 (AN)	14. Web Hosting Web Hosting Basics, Types of Hosting Packages, Registering domains, Defining Name Servers
29,30	26.8.2017 (AN)	15. Web Hosting Using Control Panel, Creating Emails in C panel, Using FTP Client, Maintaining a Website.


COURSE COORDINATOR


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CERTIFICATE COURSE ON WEB DESIGNING

Date of Introduction of the Course: 11.08.2017

COURSE SYLLABUS

1. Introduction to Web Technologies

Introduction to Web Technologies, Careers in Web Technologies and Job Roles, How the Website Works? , Client and Server Scripting Languages, Domains and Hosting, Responsive Web Designing, Types of Websites (Static and Dynamic Websites), Web Standards and W3C recommendations.

2. HTML 4.01 and XHTML 1.1

What is Markup Language , Basic Structure of HTML , Difference Between HTML and XHTML , Head Section and Elements of Head Section , Meta Tags ,Css Tags ,Script Tag , Table Tag , Div Tag , Header Tags , Paragraph, Span, Pre Tags , Anchor Links and Named Anchors, Image Tag, Object Tag

3. HTML 4.01 and XHTML 1.1

Forms ,Form Tag , Attributes of Form , POST and GET Method ,Fieldset and Legend ,Text input, Text area , Checkbox and Radio Button , Dropdown, List and Optgroup , File Upload and Hidden Fields ,Submit, Image, Normal, Reset Button , Creating a Live Website Form , HTML Validators

4. CSS 2.1

Introduction to Cascading Style Sheets , Types of CSS , CSS Selectors , Universal Selector ,ID Selector , Tag Selector , Class Selector , Sub Selector ,Child Combinatory Selector , Adjacent Sibling Selector ,Attribute Selector

5. CSS 2.1

Group selector , First-line and First-letter selector , Before and After Selector Characterizing SaaS-Streamlining administration with centralized installation, Optimizing cost and performance with scale on demand

6. CSS Properties

Type Properties, Background Properties,Block Properties, Box Properties, List Properties, Border Properties, Positioning Properties, Realtime Implementati

7. HTML 5

Introduction to HTML5, Features of HTML5, HTML5 DocType , New Structure Tags,Section , Nav , Article , Aside ,Header ,Footer , Designing a HTML Structure of Page , New Media Tags

8. HTML 5

Audio Tag ,Video Tag, Canvas and Svg Tag ,Introduction to HTML5 Forms, New Attributes, Placeholder Attribute, Require Attribute, Pattern Attribute, Autofocus Attribute, email , tel, url types

9. Responsive Web Design with Bootstrap

Introduction to Responsive Design, Mobile first design concepts, Common device dimensions, Viewport tag, Using css media queries, Menu conversion script

10. Responsive Web Design with Bootstrap

Basic Custom Layout, Introduction to Bootstrap, Installation of Bootstrap, Grid System, Forms , Buttons, Icons Integration, Using CSS3 in Practical.

11. Java Script

Introduction to Client Side Scripting, Introduction to Java Script, JavaScript Types, Variables in JS , Operators in JS , Conditions Statements , Java Script Loops. JS Popup Boxes.

12. Java script

JS Events, JS Arrays , Working with Arrays , JS Objects ,JS Functions , Using Java Script in Real-time , Validation of Forms , Related Examples.

13. jQuery

Introduction to jQuery, jQuery Features, Installing jQuery, jQuery Syntax, jQuery Ready Function.

14. Web Hosting

Web Hosting Basics, Types of Hosting Packages, Registering domains, Defining Name Servers

15. Web Hosting

Using Control Panel, Creating Emails in C panel, Using FTP Client , Maintaining a Website.

COURSE OBJECTIVES

In this course we plan to give students an overview of the field of Web designing, and an in-depth study into its enabling technologies and main building blocks. Students will gain hands-on experience in developing web site and hosting it.

Specifically, the course has the following objectives:

Students will learn

- Understand the principles of creating an effective web page, including an in-depth consideration of information architecture.
- Become familiar with graphic design principles that relate to web design and learn how to implement theories into practice.
- Develop skills in analyzing the usability of a web site.
- Understand how to plan and conduct user research related to web usability.
- Learn the language of the web: HTML and CSS.
- Learn CSS grid layout and flexbox.
- Learn techniques of responsive web design, including media queries.
- Develop skills in digital imaging (Adobe Photoshop.)
- Develop basic programming skills using Javascript and jQuery.
- Be able to embed social media content into web pages.



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CERTIFICATE COURSE ON WEB DESIGNING

Date of Introduction of the Course: 11.08.2017

School of Computing

Registered Students Name List

S.NO	REG.NO	NAME OF THE STUDENT
1	U16CS004	ABDUL KHADIR L
2	U16CS006	SARAVANAN R
3	U16CS059	SRAVANI GADIPARTHI
4	U16CS060	PARUCHURU JYOTHI SATYA SIVA NAGA SWAROOP
5	U16CS061	NAGIREDDY GARI SANJUNATH REDDY
6	U16CS062	NALLAMOTHU TARUN KUMAR
7	U16CS063	GANNAMANI PRAVEEN
8	U16CS131	MAGULURI PAVAN
9	U16CS132	GAIKOTI MADHAVA RAO
10	U16CS135	HARI S
11	U16CS191	SHAIK AFRIDI
12	U16CS192	GANTLA VASU
13	U16CS193	MUNAGANURU SAI ANUDEEP
14	U16CS194	GADDAM AMARA HARSHAVARDHAN REDDY
15	U16CS195	BOLLAM MANINDRA
16	U15CS001	ABHIJEET KUMAR
17	U15CS002	ABHIJIT KUMAR GUPTA
18	U15CS003	ABHISHEK KUMAR SINGH
19	U15CS004	ALLU SAI SIVA PRIYANKA NAIDU
20	U15CS005	AMBIKE KUMAR SINGH
21	U15CS064	INJE RAVI TEJA
22	U15CS065	INNURU SWATHI
23	U15CS066	JAGADEESH K
24	U15CS067	JAGADEESWARA RAO JADDU
25	U15CS068	JAICHAND KUMAR
26	U15CS069	JANAKI RAMAN V

27	U15CS156	PERURI V S V KRISHNA MOHAN
28	U15CS157	POORVISHA M
29	U15CS159	PRADEEP YADAV
30	U15CS160	PRASAD ABHISHEK KUMAR
31	U15CS161	PRASHANT PATHAK
32	U15CS212	UTTAM KUMAR
33	U15CS216	VEMSETTY ARUN SAHADEV
34	U14CS051	GANESH RAJ .L
35	U14CS052	GARLAPATI HEMA SAI KRISHNA
36	U14CS053	GODJSELA SRINATH
37	U14CS054	GONTLA KARTHIK
38	U14CS055	GOTTIPATI KARTHIK
39	U14CS101	MOHAMMAD AADIL SHANHREYAR.
40	U14CS102	MOHAMMED AABID
41	U14CS104	MOLUGURI PRADEEP CHANDRA
42	U14CS105	MOOTHI LAKSHMI PRASANNA
43	U14CS106	MUGANTH.R.
44	U14CS161	SANJAY KUMAR YADAV
45	U14CS162	SANTHOSH KUMAR.N
46	U14CS163	SASHAANK.S
47	U14CS164	SAURAV KUMAR
48	U14CS501	ARUN
49	U14CS504	SARAVANAN.B
50	U14CS506	I.SUKAPATLA AVINASH

R. Veluigchi

COURSE COORDINATOR

[Signature]

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CERTIFICATE OF PARTICIPATION

This certificate is presented to

GANTLA VASU (U16CS192)

For actively participating in the value added course “Certificate Course on Web Designing”
Conducted by School of Computing, BIHER from 11.08.2017 to 26.08.2017.

P. Veluvigai
COURSE COORDINATORS

[Signature]
HEAD OF THE DEPARTMENT

[Signature]
DIRECTOR

COURSE FEEDBACK FORM

Academic Year		2017-2018			
Term		Odd Sem			
Course Number					
Course Title		web Designing			
Number of Credits					
Type of Course	Regular		Elective		Add-on <input checked="" type="checkbox"/>

I. Information on the Respondent: (Tick (✓) Appropriately)

1.	Percentage of classes attended							
	0-20		20-40		40-60		60-80	<input checked="" type="checkbox"/>

2.	Number of hours per week spent on the course (Other than lecture hours)							
	0-2		2-4		4-6		6-8	<input checked="" type="checkbox"/>

3.	Preparation for the course by the student:		
	(i)	Have done part of this course earlier	yes
	(ii)	Has adequate prior exposure to the prerequisites	yes
	(iii)	Had to pickup relevant additional topics through concurrent study	yes
	(iv)	Have no exposure to the background material	yes

4.	The expectations for taking the course by the student are:		
	(a)	Enhance by skill base in the area of specializations	yes
	(b)	Get exposed to a relevant subject	yes
	(c)	Curiosity	yes
	(d)	Better Employment Opportunity	yes
	(e)	Complete Course requirements	yes
	(f)	To Improve CGPA	yes

About the Instructor: Information on the Respondent: (Tick (✓) Appropriately)

		A	B	C	D	E
1.	Pace of the Teaching/lecture			<input checked="" type="checkbox"/>		
2.	Content of the Subject			<input checked="" type="checkbox"/>		
3.	Clarity of expression			<input checked="" type="checkbox"/>		
4.	Level of preparation		<input checked="" type="checkbox"/>			
5.	Level of interaction		<input checked="" type="checkbox"/>			
6.	Accessibility outside the class			<input checked="" type="checkbox"/>		
7.	Others (please specify)					

A: Excellent	B: Very Good	C: Good	D: Satisfactory	E: Poor
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COURSE FEEDBACK FORM

Academic Year		2017-2018							
Term		ODD SEM							
Course Number		WEB DESIGNING							
Course Title									
Number of Credits									
Type of Course	Regular		Elective		Add-on	<input checked="" type="checkbox"/>			
I. Information on the Respondent: (Tick (✓) Appropriately)									
1. Percentage of classes attended									
0-20		20-40		40-60		60-80	<input checked="" type="checkbox"/>	80-100	
2. Number of hours per week spent on the course (Other than lecture hours)									
0-2		2-4		4-6		6-8	<input checked="" type="checkbox"/>	8-10	
3. Preparation for the course by the student:									
(i)	Have done part of this course earlier						yes		
(ii)	Has adequate prior exposure to the prerequisites						yes		
(iii)	Had to pickup relevant additional topics through concurrent study						yes		
(iv)	Have no exposure to the background material						yes		
4. The expectations for taking the course by the student are:									
(a)	Enhance by skill base in the area of specializations						yes		
(b)	Get exposed to a relevant subject						yes		
(c)	Curiosity						yes		
(d)	Better Employment Opportunity						yes		
(e)	Complete Course requirements						yes		
(f)	To Improve CGPA						yes.		
About the Instructor: Information on the Respondent: (Tick (✓) Appropriately)									
		A	B	C	D	E			
1.	Pace of the Teaching/lecture				<input checked="" type="checkbox"/>				
2.	Comment of the Subject				<input checked="" type="checkbox"/>				
3.	Clarity of expression				<input checked="" type="checkbox"/>				
4.	Level of preparation		<input checked="" type="checkbox"/>						
5.	Level of interaction		<input checked="" type="checkbox"/>						
6.	Accessibility outside the class			<input checked="" type="checkbox"/>					
7.	Others (please specify)								
A: Excellent		B: Very Good		C: Good		D: Satisfactory		E: Poor	

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 Chennai-600 073. INDIA



Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

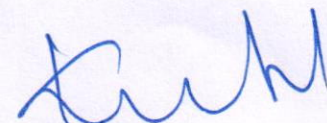
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CIRCULAR

28.08.2017

The School of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on **Orientation to SQL on Big Data** for the benefit of II, III and IV year students. This course is scheduled from 01.09.2017 for 46 hours which includes theory and practical. The timings are 1:30 PM to 4:30 PM from Friday (AN) and Saturday (FN&AN).

All Registered Students must attend all the classes without fail. The following faculty members are assigned to handle the course. S.NO	Name of the Faculty	Designation
1	Dr.C.Nalini	Professor
2	Dr.C.Rajabhushanam	Professor


Head of Department

To

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HEAD OF DEPARTMENT
Department of Computer Science & Engg.,
Bharath Institute of Higher Education & Research
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Chennai-600 073. INDIA



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CERTIFICATE COURSE ON SQL ON BIG DATA

Date of Introduction of the Course: 28.08.20217

COURSE OBJECTIVE

Much of the world's data resides in databases. SQL (or Structured Query Language) is a powerful language which is used for communicating with and extracting data from databases. The purpose of this course is to introduce relational database concepts and help you learn and apply foundational knowledge of the SQL language. It is also intended to get you started with performing SQL access in a data science environment. The emphasis in this course is on hands-on and practical learning.

WHAT TO EXPECT

- ✓ You will work with real databases, real data science tools, and real-world datasets.
- ✓ You will create a database instance in the cloud.
- ✓ Through a series of hands-on labs you will practice building and running SQL queries.
- ✓ You will also learn how to access databases from Jupyter notebooks using SQL.

COURSE SYLLABUS

1. Introduction to Databases and Basic SQL

- Welcome to SQL for Data Science
- Introduction to Databases
- How to create a Database instance on Cloud
- Relational Database Concepts

2. SQL Queries

- CREATE Table Statement
- SELECT Statement
- COUNT, DISTINCT, LIMIT
- INSERT Statement
- UPDATE and DELETE Statements

3. Advanced SQL

- Using String Patterns, Ranges
- Sorting Result Sets
- Grouping Result Sets
- Built-in Database Functions
- Date and Time Built-in Functions
- Sub-Queries and Nested Selects
- Working with Multiple Tables

4. Accessing Databases using Python

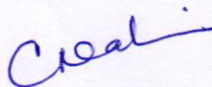
- How to Access Databases Using Python
- Writing code using DB-API
- Connecting to a database using ibm_db API
- Creating tables, loading data and querying data
- Analysing data with Python

5. Joins

- Join Overview
- Inner Join
- Left Outer Join
- Right Outer Join
- Full Outer Join

6. Course Assignment

- Working with Real World Datasets
- Getting Table and Column Details

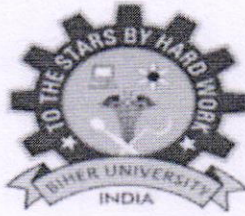


COURSE COORDINATOR



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CERTIFICATE COURSE ON SQL ON BIG DATA

Date of Introduction of the Course: 28.08.2017

The timings are 1:30 PM to 4:30 PM from Friday (AN) and Saturday (FN&AN)

Time Table& Lesson plan

CLASS	DATE	TOPIC
1,2	31-08-2017	<ul style="list-style-type: none">• Welcome to SQL for Data Science• Introduction to Databases
3,4, 5,6	01-09-2017	<ul style="list-style-type: none">• How to create a Database instance on Cloud• Relational Database Concepts• CREATE Table Statement• SELECT Statement• COUNT, DISTINCT, LIMIT• INSERT Statement• UPDATE and DELETE Statements
7,8	07-09-2017	<ul style="list-style-type: none">• Using String Patterns, Ranges• Sorting Result Sets• Grouping Result Sets
9,10, 11,12	08-09-2017	<ul style="list-style-type: none">• Built-in Database Functions• Date and Time Built-in Functions• Sub-Queries and Nested Selects• Working with Multiple Tables
13,14	14-09-2017	<ul style="list-style-type: none">• How to Access Databases Using Python
15,16,	15-09-2017	<ul style="list-style-type: none">• Writing code using DB-API• Connecting to a database using ibm_db API

17,18		
19,20	21-09-2017	<ul style="list-style-type: none"> • Connecting to a database using ibm_db API
21,22, 23,24	22-09-2017	<ul style="list-style-type: none"> • Creating tables, loading data and querying data • Analysing data with Python
25,26	28-09-2017	<ul style="list-style-type: none"> • Join Overview • Inner Join • Left Outer Join • Right Outer Join • Full Outer Join
27,28, 29,30	29-09-2017	<ul style="list-style-type: none"> • Working with Real World Datasets • Getting Table and Column Details

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COURSE COORDINATOR

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CERTIFICATE OF PARTICIPATION

This is Presented to

Mr . Sai Teja

For actively participating in value added course on
“*SQL on BIG DATA* “ conducted by School Computing ,
BIHER from 31/08/2017 to 29/09/2017.

creali
Coordinator

[Signature]
HOD

[Signature]
DIRECTOR



CERTIFICATE COURSE ON SQL ON BIG DATA
Date of Introduction of the Course: 28.08.2017

School of Computing
Registered Students Name List

S.NO	REG.NO	NAME OF THE STUDENT
1	U16CS175	CHALUVADI KALYAN
2	U16CS176	INDHUMATHI K
3	U16CS177	VAKA MAHENDRA REDDY
4	U16CS178	TIPPAREDDY NARENDRA REDDY
5	U16CS179	EDA MADANAMOHAN REDDY
6	U16CS180	THATI RAGHAVA
7	U16CS181	NAGIREDDY KRISHNA REDDY
8	U16CS182	MADDULA SUDHAKARA REDDY
9	U16CS183	ARAVINDASAMY R
10	U16CS117	S YUGANDHAR
11	U16CS118	CHOKKAM NAGARAJU
12	U16CS119	ARIKATLA PAVITHRA
13	U16CS120	ROSHAN KUMAR RAJ
14	U16CS122	G RAJESH KUMAR
15	U16CS124	SURLA SRINUVASU
16	U16CS125	THUMMALA CHALLA MANOJ
17	U16CS127	NULAKA RAJGOPAL REDDY
18	U16CS059	SRAVANI GADIPARTHI
19	U16CS060	PARUCHURU JYOTHI SATYA SIVA NAGA SWAROOP
20	U16CS061	NAGIREDDY GARI SANJUNATH REDDY
21	U16CS062	NALLAMOTHU TARUN KUMAR
22	U16CS063	GANNAMANI PRAVEEN
23	U16CS064	M AMARNATH REDDY
24	U16CS066	KOTTE BALAJI
25	U16CS067	ABDUL HASEEB

26	U16CS068	BHAVANAM SAI KRISHNA REDDY
27	U16CS001	SANTOSH B
28	U16CS002	APARNA V M
29	U16CS003	NALAMOTHU SRIKANTH
30	U16CS004	ABDUL KHADIR L
31	U16CS006	SARAVANAN R
32	U16CS007	SANAM NAGA VENKATA SAI KRISHNA
33	U16CS008	CHEEMIREDDIGARI ANKITHAREDDY
34	U16CS009	RITIK RAJ
35	U16CS010	JOHAN KIRUBAHAR P P
36	U16CS011	RAVURI MOUNIKA
37	U16CS012	FAYAZ AKIL S
38	U16CS013	SURYA SUNDARRAJ SRIRAM
39	U16CS014	SOMA BHARATH KUMAR
40	U16CS015	B J JAISON
41	U16CS016	SARAVANAKUMAR S
42	U16CS017	VARUN KANNA A
43	U16CS018	JUPAKA SAIVARUN
44	U16CS019	PYDI VENKATA PRITHEESH NIHAR
45	U16CS020	R MAHESH
46	U16CS701	PRADEEP SURIYA

C. Prasad
COURSE COORDINATOR

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COURSE FEEDBACK FORM

Academic Year		2017 - 2018							
Term									
Course Number									
Course Title		SQL ON BIGDATA							
Number of Credits		-							
Type of Course	Regular		Elective		Add-on	✓			
I. Information on the Respondent: (Tick (✓) Appropriately)									
1. Percentage of classes attended									
0-20		20-40		40-60		60-80	✓	80-100	
2. Number of hours per week spent on the course (Other than lecture hours)									
0-2		2-4		4-6		6-8	✓	8-10	
3. Preparation for the course by the student:									
(i)	Have done part of this course earlier								NO
(ii)	Has adequate prior exposure to the prerequisites								NO
(iii)	Had to pickup relevant additional topics through concurrent study								NO
(iv)	Have no exposure to the background material								Yes
4. The expectations for taking the course by the student are:									
(a)	Enhance by skill base in the area of specializations								Yes
(b)	Get exposed to a relevant subject								Yes
(c)	Curiosity								Yes
(d)	Better Employment Opportunity								Yes
(e)	Complete Course requirements								Yes
(f)	To Improve CGPA								Yes
About the Instructor: Information on the Respondent: (Tick (✓) Appropriately)									
		A	B	C	D	E			
1.	Pace of the Teaching/lecture	✓							
2.	Content of the Subject	✓							
3.	Clarity of expression	✓							
4.	Level of preparation	✓							
5.	Level of interaction		✓						
6.	Accessibility outside the class		✓						
7.	Others (please specify)	-	-						
A: Excellent		B: Very Good		C: Good		D: Satisfactory		E: Poor	
✓									


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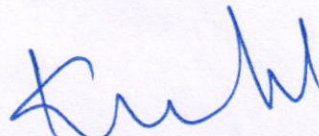
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CIRCULAR

28.08.2017

The School of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on **IBM AI Engineering** for the benefit of II, III and IV year students. This course is scheduled from 01.09.2017 for 30 hours which includes theory and practical. The timings are 9:30 AM to 12:30 PM from Friday (FN) and Saturday (FN&AN).

All Registered Students must attend all the classes without fail. The following faculty members are assigned to handle the course. S.NO	Name of the Faculty	Designation
1	Dr.C.Nalini	Professor
2	Mrs.C.Anuradha	Assistant Professor


Head of Department

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CERTIFICATE COURSE ON IBM AI ENGINEERING

Date of Introduction of the Course: 28.08.2017

The timings are 9:30 AM to 12:30 PM from Friday (AN) and Saturday (FN&AN).

Time Table & Lesson plan

CLASS	DATE	TOPIC
1,2	01-09-2017(FN)	1.Introduction: Philosophy of AI, Production systems Introduction to AI-Problem formulation, Problem Definition, Production systems, Control strategies, Search strategies. Problem characteristics, Production system characteristics, Specialized production system.
3,4	02-09-2017 (FN) 02-09-2017(AN)	2. Modeling a Problem as Search Problem, Uninformed Search Problem solving methods, Problem graphs, Uninformed Search, Divide and Conquer, Greedy, Branch and Bound, Gradient Descent.
5,6	08-09-2017(FN)	3. Heuristic Search, Domain Relaxations Informed Search, Pure Heuristic Search, Best First Search, A* Search, AO* Search.
7,8	09-09-2017(FN) 09-09-2017(AN)	4. Local Search, Genetic Algorithms Local Search Algorithms and Optimization Problems, Hill-climbing search, Simulated annealing search, Local beam search, Genetic algorithms, Ant Colony Optimization, Tabu Search.
9,10	15-09-2017(FN)	5. Adversarial Search Adversarial Search, Game Types, Problem Formalization, Game Tree, Zero Sum Game.
11,12	16-09-2017(FN)	6. Constraint Satisfaction Searching with Partial Observations, Constraint Satisfaction Problems, Constraint Propagation, Backtracking Search.
13,14	16-09-2017(AN)	Game Playing Game Playing, Optimal Decisions in Games, Min-Max Games, Alpha – Beta Pruning, Stochastic Games

15,16	22-09-2017(FN) 23-09-2017(FN)	8. Knowledge Representation Knowledge representation using Predicate logic, Introduction to predicate calculus, Resolution, Use of predicate calculus, Knowledge representation using other logic, Structured representation of knowledge.
17,18	23-09-2017(AN)	9. Knowledge Inference Inference Rules, Production based system, Frame based system, Backward chaining, Forward chaining, Rule value approach
19,20	29-09-2017(FN)	10. Planning Basic plan generation systems, Strips, Advanced plan generation systems, K strips, Strategic explanations, Why, Why not and how explanations.
21,22	30-09-2017(FN)	11. Uncertainty in AI, Bayesian Networks Fuzzy reasoning, Certainty factors, Bayesian Theory, Bayesian Network, Dempster – Shafer theory.
23,24	30-09-2017(FN)	12. Markov Decision Processes Markov Decision Processes, Dynamic programming, Linear programming, FMDP.
25,26	30-09-2017(AN) 06-10-2017(FN)	13. Expert Systems Expert systems – Architecture, Roles of expert systems, Knowledge Acquisition, Meta knowledge, Typical expert systems, Expert systems shells.
27,28	07-10-2017(FN)	14. Reinforcement Learning RL Framework, Tabular methods, Q-networks, Policy Optimization, Model based RL.
29,30	07-10-2017(AN)	15. Introduction to Deep Learning Introduction to Tensorflow, Deep Neural Network, Recurrent neural networks, Convolutional neural networks, Applications.

C. S. S. S.

COURSE COORDINATOR

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CERTIFICATE COURSE ON IBM AI ENGINEERING

Date of Introduction of the Course: 28.08.2017

COURSE SYLLABUS

1. Introduction: Philosophy of AI, Production systems

Introduction to AI-Problem formulation, Problem Definition, Production systems, Control strategies, Search strategies. Problem characteristics, Production system characteristics, Specialized production system.

2. Modeling a Problem as Search Problem, Uninformed Search

Problem solving methods, Problem graphs, Uninformed Search, Divide and Conquer, Greedy, Branch and Bound, Gradient Descent.

3. Heuristic Search, Domain Relaxations

Informed Search, Pure Heuristic Search, Best First Search, A* Search, AO* Search.

4. Local Search, Genetic Algorithms

Local Search Algorithms and Optimization Problems, Hill-climbing search, Simulated annealing search, Local beam search, Genetic algorithms, Ant Colony Optimization, Tabu Search.

5. Adversarial Search

Adversarial Search, Game Types, Problem Formalization, Game Tree, Zero Sum Game.

6. Constraint Satisfaction

Searching with Partial Observations, Constraint Satisfaction Problems, Constraint Propagation, Backtracking Search.

7. Game Playing

Game Playing, Optimal Decisions in Games, Min-Max Games, Alpha – Beta Pruning, Stochastic Games

8. Knowledge Representation

Knowledge representation using Predicate logic, Introduction to predicate calculus, Resolution, Use of predicate calculus, Knowledge representation using other logic, Structured representation of knowledge.

9. Knowledge Inference

Inference Rules, Production based system, Frame based system, Backward chaining, Forward chaining, Rule value approach.

10. Planning

Basic plan generation systems, Strips, Advanced plan generation systems, K strips, Strategic explanations, Why, Why not and how explanations.

11. Uncertainty in AI, Bayesian Networks

Fuzzy reasoning, Certainty factors, Bayesian Theory, Bayesian Network, Dempster – Shafer theory.

12. Markov Decision Processes

Markov Decision Processes, Dynamic programming, Linear programming, FMDP.

13. Expert Systems

Expert systems – Architecture, Roles of expert systems, Knowledge Acquisition, Meta knowledge, Typical expert systems, Expert systems shells.

14. Reinforcement Learning

RL Framework, Tabular methods, Q-networks, Policy Optimization, Model based RL.

15. Introduction to Deep Learning

Introduction to Tensorflow, Deep Neural Network, Recurrent neural networks, Convolutional neural networks, Applications.

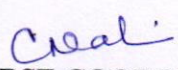
COURSE OBJECTIVES

In this course we plan to give students an overview of the field of Artificial Intelligence Engineering, and an in-depth study into its enabling technologies and main building blocks. Students will gain hands-on experience solving relevant problems through projects that will utilize existing public cloud tools. It is our objective that students will develop the skills needed to become a practitioner or carry out research projects in this domain.

Specifically, the course has the following objectives:

Students will learn

- 1) To have an appreciation for and understanding of both the achievements of AI and the theory underlying those achievements. To have an appreciation for the engineering issues underlying the design of AI systems.
- 2) To have a basic proficiency in a traditional AI language including an ability to write simple to intermediate programs and an ability to understand code written in that language.
- 3) To have an understanding of the basic issues of knowledge representation and blind and heuristic search, as well as an understanding of other topics such as minimax, resolution, etc. that play an important role in AI programs.
- 4) To have a basic understanding of some of the more advanced topics of AI such as learning, natural language processing, agents and robotics, expert systems, and planning.


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CERTIFICATE COURSE ON IBM AI ENGINEERING

Date of Introduction of the Course: 28.08.2017

School of Computing

Registered Students Name List

S.NO	REG.NO	NAME OF THE STUDENT
1	U14CS007	ABHISHEK MANDURI
2	U14CS012	AMAR BASUMATARY
3	U14CS013	ANDREW JOSEPH.V
4	U14CS021	AREEF SYED
5	U14CS023	ASIF NAZIR WANI
6	U14CS024	ATUL ANAND
7	U14CS025	BACHU HARISH
8	U14CS026	BALA MURUGAN .P
9	U14CS029	BALAKRISHNAN.T
10	U14CS055	GOTTIPATI KARTHIK
11	U14CS702	S.KUMARAN
12	U14CS514	SATHISH RAJ
13	U14CS057	GOVIND KUMAR
14	U14CS058	HARI TEJA.G
15	U14CS059	HARISH.V
16	U14CS062	JERIPOTHULA SURESH GOUD
17	U14CS063	JOHN DALTON .H
18	U14CS064	K. LAKSHMIKANTH REDDY
19	U14CS067	KARTHICK.K

20	U14CS074	KESHAVAPRIYA .S
21	U14CS075	KEVIN ARNOLD THAKUR
22	U14CS080	KOVURI BALASUBHAKAR REDDY
23	U14CS082	KRISHNANDAN YADAV
24	U14CS086	LOKESHWARAN.A.
25	U14CS089	MADIYAL ANJAY
26	U14CS092	MANDELA SAIKIRAN
27	U14CS102	MOHAMMED AABID
28	U14CS104	MOLUGURI PRADEEP CHANDRA
29	U14CS109	N.UMA VENKATA MAHESHWARA SWAMY
30	U14CS222	M.GANESH RAJAN
31	U14CS503	ARJHUN KUMAR.K
32	U14CS508	INDHU GOPALAKRISHNAN
33	U14CS710	SHOPMINISTER
34	U14CS113	NALLAJARLA CHAKRADHAR
35	U14CS114	NANDALA SWETHA
36	U14CS115	NANDIPALLI MOUNICA
37	U14CS136	RAHUL GOUD.P
38	U14CS137	RAHUL HAWAIBAM
39	U14CS144	RAKESH KUMAR
40	U14CS147	RAMANATHAN.J
41	U14CS149	RANGAPUR VIKAS REDDY
42	U14CS151	RAVIPATI SUBBARAYUDU
43	U14CS153	RONU SHARMA

Creal

COURSE COORDINATOR

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INSTITUTE OF HIGHER EDUCATION AND RESEARCH
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CERTIFICATE OF PARTICIPATION

This certificate is presented to

RAKESH KUMAR

For actively participating in the value added course "IBM AI Engineering"
Conducted by School of Computing, BIHER from 01.09.2017 to 07.10.2017.

C. S. S. S.

COURSE COORDINATORS

[Signature]

HEAD OF THE DEPARTMENT

[Signature]

DIRECTOR

COURSE FEEDBACK FORM

Academic Year		2017 - 2018			
Term		ODD SEM			
Course Number					
Course Title		IBM AI Engineering			
Number of Credits					
Type of Course	Regular		Elective		Add-on <input checked="" type="checkbox"/>

I. Information on the Respondent: (Tick (✓) Appropriately)

1.	Percentage of classes attended									
	0-20		20-40		40-60		60-80	✓	80-100	

2.	Number of hours per week spent on the course (Other than lecture hours)									
	0-2		2-4		4-6	✓	6-8		8-10	

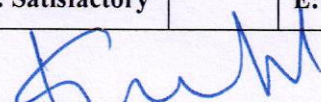
3.	Preparation for the course by the student:									
	(i)	Have done part of this course earlier								YES
	(ii)	Has adequate prior exposure to the prerequisites								YES
	(iii)	Had to pickup relevant additional topics through concurrent study								YES
	(iv)	Have no exposure to the background material								YES

4.	The expectations for taking the course by the student are:									
	(a)	Enhance by skill base in the area of specializations								YES
	(b)	Get exposed to a relevant subject								YES
	(c)	Curiosity								YES
	(d)	Better Employment Opportunity								YES
	(e)	Complete Course requirements								YES
	(f)	To Improve CGPA								YES

About the Instructor: Information on the Respondent: (Tick (✓) Appropriately)

		A	B	C	D	E
1.	Pace of the Teaching/lecture		✓			
2.	Comment of the Subject		✓			
3.	Clarity of expression			✓		
4.	Level of preparation		✓			
5.	Level of interaction	✓				
6.	Accessibility outside the class			✓		
7.	Others (please specify)		✓			

A: Excellent		B: Very Good		C: Good		D: Satisfactory		E: Poor
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COURSE FEEDBACK FORM

Academic Year		2019-2020			
Term		ODD SEM			
Course Number					
Course Title		IBM AI Engineering			
Number of Credits					
Type of Course	Regular		Elective		Add-on <input checked="" type="checkbox"/>

I. Information on the Respondent: (Tick (✓) Appropriately)

1. Percentage of classes attended

0-20		20-40		40-60		60-80 <input checked="" type="checkbox"/>	80-100
------	--	-------	--	-------	--	-------------------------------------------	--------

2. Number of hours per week spent on the course (Other than lecture hours)

0-2		2-4		4-6 <input checked="" type="checkbox"/>	6-8		8-10
-----	--	-----	--	-----------------------------------------	-----	--	------

3. Preparation for the course by the student:

(i)	Have done part of this course earlier	yes
(ii)	Has adequate prior exposure to the prerequisites	yes
(iii)	Had to pickup relevant additional topics through concurrent study	yes
(iv)	Have no exposure to the background material	yes

4. The expectations for taking the course by the student are:

(a)	Enhance by skill base in the area of specializations	yes
(b)	Get exposed to a relevant subject	yes
(c)	Curiosity	yes
(d)	Better Employment Opportunity	yes
(e)	Complete Course requirements	yes
(f)	To Improve CGPA	yes

About the Instructor: Information on the Respondent: (Tick (✓) Appropriately)

		A	B	C	D	E
1.	Pace of the Teaching/lecture	<input checked="" type="checkbox"/>				
2.	Comment of the Subject		<input checked="" type="checkbox"/>			
3.	Clarity of expression		<input checked="" type="checkbox"/>			
4.	Level of preparation		<input checked="" type="checkbox"/>			
5.	Level of interaction			<input checked="" type="checkbox"/>		
6.	Accessibility outside the class		<input checked="" type="checkbox"/>			
7.	Others (please specify)					

A: Excellent		B: Very Good		C: Good		D: Satisfactory		E: Poor
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HEAD OF THE DEPARTMENT

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 Department of Computer Science & Engg.,
 Bharath Institute of Higher Education & Research
 (Declared as Deemed to be University U/S 3 of UGC Act, 1956)
 Chennai-600 073. INDIA



Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

(Declared as Deemed-to-be University under section 3 of UGC Act 1956)

CIRCULAR

26.09.2017

The School of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on **IBM DATA SCIENCE** for the benefit of II, III and IV year students. This course is scheduled from 26.9.2017 for 30 hours which includes theory and practical. The timings are 9AM to 12PM and 1:30 PM to 4:30 PM on Friday (AN) and Saturday (FN&AN).

All Registered Students must attend all the classes without fail. The following faculty members are assigned to handle the course. S.NO	Name of the Faculty	Designation
1	Dr.C.Nalini	Professor
2	Dr.C.Rajabhushanam	Professor

Head of Department

To

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HEAD OF DEPARTMENT
Department of Computer Science & Engg.,
Bharath Institute of Higher Education & Research
(Declared as Deemed to be University U/S 3 of UGC Act, 1956)
Chennai-600 073. INDIA



CERTIFICATE COURSE ON IBM DATA SCIENCE

Date of Introduction of the Course: 26.09.2017

The timings are 1:30 PM to 4:30 PM from Friday (AN) and Saturday (FN&AN).

Time Table & Lesson plan

CLASS	DATE	TOPIC
1,2	26-09-2017(FN) 26-09-2017(AN)	1. Introduction to Data Science Definition of data science and what data scientists do, Tools and algorithms, Skills needed to be a successful data scientist, The role of data science within a business.
3,4	01-10-2017 (AN)	2. Data Science Tools Data science and Data visualization tools, Jupyter Notebooks including its features, Popular tools used by R Programmers, IBM Watson Studio including its features and capabilities, create and share a Jupyter Notebook.
5,6	02-10-2017(FN) 02-10-2017(AN)	3. Data Science Method Understanding and preparing the data, practice data science, including forming a concrete business question or research.
7,8	08-10-2017 (AN)	4. SQL for Data Science Foundational knowledge of the SQL language, create a database in the cloud, string patterns and ranges to query data, sort and group data in result sets and by data type, analyze data using Python.
9,10	09-10-2017 (FN) 09-10-2017 (AN)	5. Python Basics for Data Science - I Python Basics - Types, Expressions and Variables, String Operations, Python Data Structures - Lists and Tuples, Sets, Dictionaries, Python Programming Fundamentals - Conditions and Branching, Loops, Functions, Objects and Classes
11,12	15-10-2017 (AN)	6. Python Basics for Data Science – II Working with Data in Python - Reading files with open, Writing files with open, Loading data with Pandas, Working with and Saving data with Pandas, Working with Numpy Arrays - Numpy 1d Arrays, Numpy 2d Arrays.

13,14	16-10-2017 (FN) 16-10-2017 (AN)	7. Analyzing Data with Python – I Importing Datasets - Understanding the Dataset, Python package for data science, Importing and Exporting Data in Python, Basic Insights from Datasets, Cleaning and Preparing the Data, Summarizing the Data Frame - Descriptive Statistics, Basic of Grouping, ANOVA, Correlation.
15,16	22-10-2017 (AN)	8. Analyzing Data with Python – II Model Development - Simple and Multiple Linear Regression, Model Evaluation using Visualization, Polynomial Regression and Pipelines, R-squared and MSE for In-Sample Evaluation, Prediction and Decision Making, Model Evaluation - Over-fitting, Under-fitting and Model Selection, Ridge Regression, Grid Search, Model Refinement
17,18	23-10-2017 (FN) 23-10-2017 (AN)	8. Analyzing Data with Python – II Model Development - Simple and Multiple Linear Regression, Model Evaluation using Visualization, Polynomial Regression and Pipelines, R-squared and MSE for In-Sample Evaluation, Prediction and Decision Making, Model Evaluation - Over-fitting, Under-fitting and Model Selection, Ridge Regression, Grid Search, Model Refinement
19,20	29-10-2017 (AN)	9. Visualizing Data with Python Introduction to Visualization Tools, Basic Visualization Tools - Area Plots, Histograms, Bar Charts, Specialized Visualization Tools - Pie Charts, Box Plots, Scatter Plots, Bubble Plots, Advanced Visualization Tools - Waffle Charts, Word Clouds, Seaborn and Regression Plots, Creating Maps and Visualizing Geospatial Data.
21,22	30-10-2017 (FN) 30-10-2017 (AN)	9. Visualizing Data with Python Introduction to Visualization Tools, Basic Visualization Tools - Area Plots, Histograms, Bar Charts, Specialized Visualization Tools - Pie Charts, Box Plots, Scatter Plots, Bubble Plots, Advanced Visualization Tools - Waffle Charts, Word Clouds, Seaborn and Regression Plots, Creating Maps and Visualizing Geospatial Data.
23,24	06-11-2017 (AN)	10. Machine Learning with Python – I Introduction to Machine Learning - Applications of Machine Learning, Supervised vs Unsupervised Learning, Python libraries suitable for Machine Learning, Regression - Linear Regression, Non-linear Regression, Model evaluation methods.
25,26	07-11-2017 (FN) 07-11-2017 (AN)	10. Machine Learning with Python – I Introduction to Machine Learning - Applications of Machine Learning, Supervised vs Unsupervised Learning, Python libraries suitable for Machine Learning, Regression - Linear Regression, Non-linear Regression, Model evaluation methods.

27,28	13-11-2017 (AN)	11. Machine Learning with Python – II Classification – K-Nearest Neighbour, Decision Trees, Logistic Regression, Support Vector Machines, Model Evaluation, Unsupervised Learning - K-Means Clustering, Hierarchical Clustering, Density-Based Clustering, Recommender Systems - Content-based recommender systems, Collaborative Filtering.
29,30	14-11-2017 (FN) 14-11-2017 (AN)	11. Machine Learning with Python – II Classification – K-Nearest Neighbour, Decision Trees, Logistic Regression, Support Vector Machines, Model Evaluation, Unsupervised Learning - K-Means Clustering, Hierarchical Clustering, Density-Based Clustering, Recommender Systems - Content-based recommender systems, Collaborative Filtering.

Cherali

COURSE COORDINATOR



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CERTIFICATE COURSE ON IBM DATA SCIENCE

Date of Introduction of the Course: 26.09.2017

COURSE SYLLABUS

1. Introduction to Data Science

Definition of data science and what data scientists do, Tools and algorithms, Skills needed to be a successful data scientist, The role of data science within a business.

2. Data Science Tools

Data science and Data visualization tools, Jupyter Notebooks including its features, Popular tools used by R Programmers, IBM Watson Studio including its features and capabilities, create and share a Jupyter Notebook.

3. Data Science Method

Understanding and preparing the data, practice data science, including forming a concrete business question or research.

4. SQL for Data Science

Foundational knowledge of the SQL language, create a database in the cloud, string patterns and ranges to query data, sort and group data in result sets and by data type, analyze data using Python.

5. Python Basics for Data Science - I

Python Basics - Types, Expressions and Variables, String Operations, Python Data Structures - Lists and Tuples, Sets, Dictionaries, Python Programming Fundamentals - Conditions and Branching, Loops, Functions, Objects and Classes

6. Python Basics for Data Science – II

Working with Data in Python - Reading files with open, Writing files with open, Loading data with Pandas, Working with and Saving data with Pandas, Working with Numpy Arrays - Numpy 1d Arrays, Numpy 2d Arrays.

7. Analyzing Data with Python – I

Importing Datasets - Understanding the Dataset, Python package for data science, Importing and Exporting Data in Python, Basic Insights from Datasets, Cleaning and Preparing the Data, Summarizing the Data Frame - Descriptive Statistics, Basic of Grouping, ANOVA, Correlation.

8. Analyzing Data with Python – II

Model Development - Simple and Multiple Linear Regression, Model Evaluation using Visualization, Polynomial Regression and Pipelines, R-squared and MSE for In-Sample Evaluation, Prediction and Decision Making, Model Evaluation - Over-fitting, Under-fitting and Model Selection, Ridge Regression, Grid Search, Model Refinement

9. Visualizing Data with Python

Introduction to Visualization Tools, Basic Visualization Tools - Area Plots, Histograms, Bar Charts, Specialized Visualization Tools - Pie Charts, Box Plots, Scatter Plots, Bubble Plots, Advanced Visualization Tools - Waffle Charts, Word Clouds, Seaborn and Regression Plots, Creating Maps and Visualizing Geospatial Data.

10. Machine Learning with Python – I

Introduction to Machine Learning - Applications of Machine Learning, Supervised vs Unsupervised Learning, Python libraries suitable for Machine Learning, Regression - Linear Regression, Non-linear Regression, Model evaluation methods.

11. Machine Learning with Python – II

Classification – K-Nearest Neighbour, Decision Trees, Logistic Regression, Support Vector Machines, Model Evaluation, Unsupervised Learning - K-Means Clustering, Hierarchical Clustering, Density-Based Clustering, Recommender Systems - Content-based recommender systems, Collaborative Filtering.

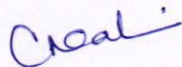
COURSE OBJECTIVES

In this course we plan to give students an overview of the field of IBM Data Science, and an in-depth study into its enabling technologies and main building blocks. Students will gain hands-on experience solving relevant problems through projects that will utilize existing public data science tools. It is our objective that students will develop the skills needed to become a practitioner or carry out research projects in this domain.

Specifically, the course has the following objectives:

Students will learn

- 1) What data science is, the various activities of a data scientist's job, and methodology to think and work like a data scientist.
- 2) Develop hands-on skills using the tools, languages, and libraries used by professional data scientists.
- 3) Import and clean data sets, analyze and visualize data, and build and evaluate machine learning models and pipelines using Python.
- 4) Apply various data science skills, techniques, and tools.



COURSE COORDINATOR



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CERTIFICATE COURSE ON IBM DATA SCIENCE

Date of Introduction of the Course: 26.9.2017

School of Computing Registered Students Name List

S.NO	REG.NO	NAME OF THE STUDENT
1	U14CS027	BALAJI SINGH. T
2	U14CS028	BALAJI.S
3	U14CS029	BALAKRISHNAN.T
4	U14CS031	BISHAL BANIK
5	U14CS032	BODA VEERA VENKATA RAVI TEJA
6	U14CS033	BOORAGADDA VAMSI KRISHNA
7	U14CS034	BOYAPATI VINAY
8	U14CS035	BYSANI VENKAT SANDEEP
9	U14CS036	CHARAN.G
10	U14CS038	CHIDIRALA.SAI SHANKAR
11	U14CS011	AKSHAY.R
12	U15CS117	MANOJ KUMAR R
13	U15CS118	MANUGUNTA BHARGAVI
14	U15CS119	MARRIBOYINA GOVARDHAN YADAV
15	U15CS120	MARRIPUDI KRISHNA CHAITANYA
16	U15CS121	MD MINHAZ RAZA HASHMI
17	U15CS123	MOHAMMAD ASLAM SHAREEF
18	U15CS124	MOHANKUMAR J
19	U15CS125	MOLAPANTI SIVA KALPANA
20	U15CS126	MOORABOINA NARESH
21	U15CS704	KARAM
22	U15CS010	DIVYA
23	U15CS505	C.KOUSHIK
24	U15CS149	P.KHAJA KHAN
25	U16CS144	NAVEEN BALAJI P

26	U16CS146	MANDALAPU VENGALA REDDY
27	U16CS147	PREM KUMAR MISHRA
28	U16CS148	THANUBUDDI RAJASHEKAR REDDY
29	U16CS149	SUDIREDDY MUKESH REDDY
30	U16CS150	SHAIK NAGUL MEERAVALI
31	U16CS151	PODAPATI ASMITHA
32	U16CS152	NALLAPU RAJESH
33	U16CS153	GANGISETTI MANEESHA
34	U16CS154	MANGALURE KISHOR KUMAR
35	U16CS155	JEFFRIN RAJAN M
36	U16CS156	RIK ROY
37	U16CS157	MOKA BALAJI VARMA
38	U16CS158	NIMBAGALLU KURUBA GURUMURTHY
39	U16CS159	JANA ARAVIND KUMAR
40	U16CS160	NARLA RAJESH
41	U16CS161	BIJJAM THIRUPATHI REDDY
42	U16CS162	YEMIREDDY SRINIVASA REDDY
43	U16CS163	DAKA AKSHUTH KUMAR
44	U16CS164	MANDAVA MANOJ
45	U16CS165	MEKALA PANDU PREM KUMAR
45	U14CS105	MOOTHI LAKSHMI PRASANNA
46	U14CS106	MUGANTH.R.
47	U14CS107	MUGUNTHANATHAN.G
48	U14CS108	MURALI .S
49	U14CS109	N.UMA VENKATA MAHESHWARA SWAMY
50	U15CS220	VIGNESH KUMAR R.J
51	U15CS221	VIGNESHWARAN.M
52	U15CS225	VINOTHKUMAR.J
53	U15CS226	VUNDAVELLI VEERA VENKATA SATYANARAYANA
54	U15CS227	VUPPALA SUJITH
55	U15CS058	GUNDA VINAY KUMAR
56	U15CS059	HANUMAN B
57	U15CS060	HARI HARAN M
58	U15CS061	HASTHI RUCHITHA

59	U15CS062	HEMA NARAYANAN R
60	U16CS006	SARAVANAN R
61	U16CS007	SANAM NAGA VENKATA SAI KRISHNA
62	U16CS008	CHEEMIREDDIGARI ANKITHAREDDY
63	U16CS009	RITIK RAJ
64	U16CS010	JOHAN KIRUBAHAR P P

Chal

COURSE COORDINATOR

[Handwritten Signature]

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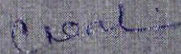
Bharath
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CERTIFICATE OF PARTICIPATION

This certificate is presented to

CHARAN

For actively participating in the value added course "IBM DATA SCIENCE"
Conducted by School of Computing, BIHER from 26.09.2017 to 14.11.2017.


COURSE COORDINATORS


HEAD OF THE DEPARTMENT


DIRECTOR

COURSE FEEDBACK FORM

Academic Year	2017			
Term	ODD SEM			
Course Number				
Course Title	IBM Data Science			
Number of Credits				
Type of Course	Regular	Elective	Add-on	<input checked="" type="checkbox"/>

I. Information on the Respondent: (Tick (✓) Appropriately)

1.	Percentage of classes attended								
	0-20	20-40	40-60	60-80	80-100	<input checked="" type="checkbox"/>			

2.	Number of hours per week spent on the course (Other than lecture hours)								
	0-2	2-4	4-6	6-8	8-10	<input checked="" type="checkbox"/>			

3.	Preparation for the course by the student:									
	(i)	Have done part of this course earlier								X
	(ii)	Has adequate prior exposure to the prerequisites								X
	(iii)	Had to pickup relevant additional topics through concurrent study								✓
	(iv)	Have no exposure to the background material								X

4.	The expectations for taking the course by the student are:									
	(a)	Enhance by skill base in the area of specializations								✓
	(b)	Get exposed to a relevant subject								✓
	(c)	Curiosity								✓
	(d)	Better Employment Opportunity								✓
	(e)	Complete Course requirements								
	(f)	To Improve CGPA								

About the Instructor: Information on the Respondent: (Tick (✓) Appropriately)

		A	B	C	D	E
1.	Pace of the Teaching/lecture	✓				
2.	Comment of the Subject		✓			
3.	Clarity of expression	✓				
4.	Level of preparation		✓			
5.	Level of interaction		✓			
6.	Accessibility outside the class		✓			
7.	Others (please specify)					

A: Excellent	B: Very Good	C: Good	D: Satisfactory	E: Poor
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COURSE FEEDBACK FORM

Academic Year		2017			
Term		ODD SEM			
Course Number					
Course Title		IBM Data Science			
Number of Credits					
Type of Course	Regular		Elective		Add-on
					✓

I. Information on the Respondent: (Tick (✓) Appropriately)

1. Percentage of classes attended

0-20		20-40		40-60		60-80		80-100	✓
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2. Number of hours per week spent on the course (Other than lecture hours)

0-2		2-4		4-6		6-8		8-10	✓
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3. Preparation for the course by the student:

(i)	Have done part of this course earlier	NO
(ii)	Has adequate prior exposure to the prerequisites	NO
(iii)	Had to pickup relevant additional topics through concurrent study	yes
(iv)	Have no exposure to the background material	NO

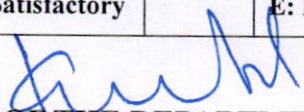
4. The expectations for taking the course by the student are:

(a)	Enhance by skill base in the area of specializations	yes
(b)	Get exposed to a relevant subject	yes
(c)	Curiosity	yes
(d)	Better Employment Opportunity	yes
(e)	Complete Course requirements	yes
(f)	To Improve CGPA	

About the Instructor: Information on the Respondent: (Tick (✓) Appropriately)

	A	B	C	D	E
1. Pace of the Teaching/lecture	✓				
2. Content of the Subject		✓			
3. Clarity of expression	✓				
4. Level of preparation		✓			
5. Level of interaction		✓			
6. Accessibility outside the class		✓			
7. Others (please specify)					

A: Excellent		B: Very Good		C: Good		D: Satisfactory		E: Poor
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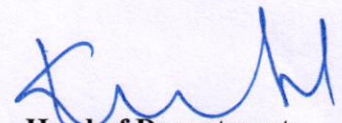
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CIRCULAR

20.09.2017

The School of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on **Introduction to Oracle** for the benefit of II year students. This course is scheduled from 26.09.2017 for 30hours which includes theory and practical. The timings are 2.00 PM to 4.00 PM from Tuesday (AN) to Saturday (AN).

All Registered Students must attend all the classes without fail. The following faculty members are assigned to handle the course. S.NO	Name of the Faculty	Designation
1	Mrs.C.Geetha	Asst Professor
2	Mrs.D.Jeyapriya	Asst Professor


Head of Department

To

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Department of Computer Science & Engg.,
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CERTIFICATE COURSE ON INTRODUCTION TO ORACLE

Date of Introduction of the Course: 26.09.2017

The timings are 2.00 PM to 4.00 PM from Tuesday (AN) To Saturday (AN).

Time Table & Lesson plan

CLASS	DATE	TOPIC
1,2	26-09-017 (AN)	1. Introduction to Oracle <ul style="list-style-type: none">▪ About Oracle▪ Tables and Table Clusters▪ Indexes and Index-Organized Tables▪ Partitions, Views, and Other Schema Objects▪ Data Integrity▪ Data Dictionary and Dynamic Performance Views
3,4	27-09-2017 (AN)	2. Introduction To SQL <ul style="list-style-type: none">▪ Introduction Database▪ Understanding DBMS vs RDBMS▪ Gone through SQL Standards▪ Sub languages of SQL▪ About SQL*Plus and use of developer tool▪ Data types in Oracle▪ Operators in Oracle▪ Understanding Schema design and objects
5,6	28-09-2017 (AN)	3. Data Retrieval Techniques <ul style="list-style-type: none">▪ To use select statement in different ways to retrieve records?▪ Working with Column alias▪ Working with Table alias▪ Data filtering and sorting with in single table▪ Clauses and its types in oracle
7,8	29-09-2017 (AN)	4. Working with DDL Commands <ul style="list-style-type: none">▪ Table creation using CREATE statement▪ Creating table from another table▪ Dropping a table using DROP command▪ Altering the column of a table▪ Modifying the column datatype in a table▪ Renaming the column of a table▪ Renaming an entire table

<p>9,10</p>	<p>30-09-2017 (AN)</p>	<p>5. Working With DML Commands</p> <ul style="list-style-type: none"> ▪ How to copy data from one table to another table? ▪ How to copy the structure alone from a table? ▪ Different types of inserting row to an existing table ▪ Updating any value of with in a record using UPDATE command ▪ Deleting a particular record from a table
<p>11,12</p>	<p>03-10-2017 (AN)</p>	<p>6. Integrity Constraints</p> <ul style="list-style-type: none"> ▪ To declare column level constraints ▪ To declare row level constraints ▪ To add constraints to an existing table ▪ Types of integrity constraints ▪ To enable and disable constraints ▪ To get information about constraints
<p>13,14</p>	<p>04-10-2017 (AN)</p>	<p>7. Built In Functions</p> <ul style="list-style-type: none"> ▪ Understanding Single row functions ▪ To use single row functions using dummy table ▪ Types of single row functions <ul style="list-style-type: none"> ○ String functions ○ Date functions ○ Mathematical functions ○ Conversion functions ○ Special functions
<p>15,16</p>	<p>05-10-2017 (AN)</p>	<p>8. Importance Of JOIN</p> <ul style="list-style-type: none"> ▪ Understanding joins and its uses ▪ Types of joins <ul style="list-style-type: none"> ○ Equi join ○ Non – equi join ○ Self join ○ Outer join ○ Left & Right outer join ○ Full outer join
<p>17,18</p>	<p>06-10-2017 (AN)</p>	<p>9. Set Operators And Pseudo Columns:</p> <ul style="list-style-type: none"> ▪ To use set operators in a single table content ▪ Working with set operator types <ul style="list-style-type: none"> ○ UNION ○ UNION ALL ○ INTERSECT ○ MINUS ▪ Working with pseudo columns using the following <ul style="list-style-type: none"> ○ ROWID ○ ROWNUM

19,20	07-10-2017 (AN)	10. Sub Queries <ul style="list-style-type: none"> ▪ Importance of sub queries ▪ Using different types of sub queries <ul style="list-style-type: none"> ○ Single row sub queries ○ Multi row sub queries ○ Nested queries ○ Multi column sub queries ○ Correlated sub queries
21,22	09-10-2017 (AN)	11. Database Transaction And Security <ul style="list-style-type: none"> ▪ Working with data query language using TCL ▪ Working with data control language commands ▪ Use of commit and rollback ▪ Use of savepoint and set transaction ▪ To give system privileges to an user ▪ To invoke and revoke object privileges ▪ To create users and roles
23,24	10-10-2017 (AN)	12. Design Of Schema Objects <ul style="list-style-type: none"> ▪ Creating and working with Views ▪ Working with Synonyms ▪ Creating Index and clusters ▪ Working with in materialized view
25,26	11-10-2017 (AN)	13. Data Concurrency and Consistency <ul style="list-style-type: none"> ▪ Transactions ▪ Introduction to Transactions ▪ Overview of Transaction Control ▪ Overview of Transaction Guard ▪ Overview of Application Continuity
27,28	12-10-2017 (AN)	14. Oracle Database Storage Structures <ul style="list-style-type: none"> ▪ Physical Storage Structures ▪ Logical Storage Structures ▪ Oracle Database Instance ▪ Memory Architecture ▪ Process Architecture ▪ Application and Networking Architecture
29,30	13-10-2017 (AN)	15. Database Administration <ul style="list-style-type: none"> ▪ Oracle Database Administration and Application Development ▪ Topics for Database Administrators and Developers ▪ Concepts for Database Administrators ▪ Concepts for Database Developers

COURSE COORDINATOR

C. GEETHA

HEAD OF THE DEPARTMENT

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CERTIFICATE COURSE ON INTRODUCTION TO ORACLE

Date of Introduction of the Course: 26.09.2017

COURSE SYLLABUS

1. Introduction to Oracle

About Oracle ,Tables and Table Clusters, Indexes and Index-Organized Tables, Partitions, Views, and Other Schema Objects, Data Integrity, Data Dictionary and Dynamic Performance Views

2. Introduction To SQL

Introduction Database, Understanding DBMS vs RDBMS, Gone through SQL Standards, Sub languages of SQL, About SQL*Plus and use of developer tool, Data types in Oracle, Operators in Oracle, Understanding Schema design and objects

3. Data Retrieval Techniques

How to use select statement in different ways to retrieve records?, Working with Column alias, Working with Table alias, Data filtering and sorting with in single table, Clauses and its types in oracle

4. Working with DDL Commands

Table creation using CREATE statement, Creating table from another table, Dropping a table using DROP command, Altering the column of a table, Modifying the column data type in a table, Renaming the column of a table, Renaming an entire table

5. Working With DML Commands

To copy data from one table to another table, To copy the structure alone from a table, Different types of inserting row to an existing table, Updating any value of with in a record using UPDATE command
Deleting a particular record from a table

6. Integrity Constraints

How to declare column level constraints, How to declare row level constraints , How to add constraints to an existing table, Types of integrity constraints, To enable and disable constraints, To get information about constraints.

7. Built In Functions

Understanding Single row functions, To use single row functions using dummy table, Types of single row functions

8. Importance Of JOIN

Understanding joins and its uses, Types of joins

9. Set Operators And Pseudo Columns:

To use set operators in a single table content, Working with set operator types, Working with pseudo columns using the following

10. Sub Queries

Importance of sub queries , Using different types of sub queries

11. Database Transaction and Security

Working with data query language using TCL, Working with data control language commands, Use of commit and rollback, Use of save point and set transaction, To give system privileges to an user, To invoke and revoke object privileges, To create users and roles?

12. Design Of Schema Objects

Creating and working with Views, Working with Synonyms, Creating Index and clusters, Working with in materialized view

13. Data Concurrency and Consistency

Transactions, Introduction to Transactions, Overview of Transaction Control, Overview of Transaction Guard
Overview of Application Continuity

14. Oracle Database Storage Structures

Physical Storage Structures, Logical Storage Structures, Oracle Database Instance, Memory Architecture
Process Architecture, Application and Networking Architecture

15. Database Administration

Oracle Database Administration and Application Development, Topics for Database Administrators and
Developers, Concepts for Database Administrators, Concepts for Database Developers

COURSE OBJECTIVES

In this course we plan to give students an basic concepts about database and Oracle. Students will get enough knowledge about commands and its execution. It is our aim to make students to know about different techniques and structures of oracle database. The students will develop their knowledge to do oracle coding and become a practitioner or carry out research projects in this domain.

Specifically, the course has the following objectives:

Students will learn

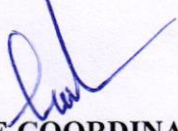
1) The fundamental ideas about database and the importance and usage of oracle, Different structures and transaction management;

2) The implementation of different techniques and commands

Software deployment considerations;

3) Different CPU, memory and I/O virtualization techniques that serve in offering software, computation and storage services. Oracle database is needed

4) Different storage technologies and relevant distributed file systems, PLSQL databases and object storage;



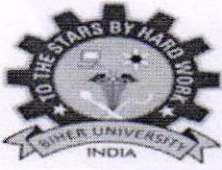
COURSE COORDINATOR

C. Geetha



HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT
Department of Computer Science & Engg.,
Bharath Institute of Higher Education & Research
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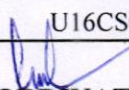
CERTIFICATE COURSE ON INTRODUCTION TO ORACLE

Date of Introduction of the Course: 26.09.2017

School of Computing **Registered Students Name List**

S.NO	REG.NO	NAME OF THE STUDENT
1	U16CS001	SANTOSH B
2	U16CS002	APARNA V M
3	U16CS003	NALAMOTHU SRIKANTH
4	U16CS004	ABDUL KHADIR L
5	U16CS006	SARAVANAN R
6	U16CS007	SANAM NAGA VENKATA SAI KRISHNA
7	U16CS008	CHEEMIREDDIGARI ANKITHAREDDY
8	U16CS009	RITIK RAJ
9	U16CS010	JOHAN KIRUBHAHAR P P
10	U16CS011	RAVURI MOUNIKA
11	U16CS012	FAYAZ AKIL S
12	U16CS013	SURYA SUNDARRAJ SRIRAM
13	U16CS014	SOMA BHARATH KUMAR
14	U16CS015	B J JAISON
15	U16CS016	SARAVANAKUMAR S
16	U16CS017	VARUN KANNA A
17	U16CS018	JUPAKA SAIVARUN
18	U16CS019	PYDI VENKATA PRITHEESH NIHAR
19	U16CS020	R MAHESH
20	U16CS021	DHRUBAJYOTI MAJI
21	U16CS024	SRIMATHI S
22	U16CS025	SANTHOSHKUMAR S
23	U16CS026	AJAY KUMAR R
24	U16CS027	GARLAPATI RAGHURAM
25	U16CS028	PADILAM JAYANTH YADAV

26	U16CS029	MOHAMMED KHIZER HUSSAIN N
27	U16CS030	JEEVAMEDHA M
28	U16CS031	SYED HAFEEZ HUSSAIN
29	U16CS032	MUGESH P
30	U16CS033	POOJALAKSHMI N
31	U16CS034	GUNDU NIKITHA REDDY
32	U16CS035	RESHMA R
33	U16CS036	LAKSHMI NARAYANAN A
34	U16CS037	PALLE NAZEER VALI
35	U16CS038	GOLUSULA SAI KUMAR
36	U16CS039	PATTAN FERAZ KHAN
37	U16CS040	MOHAMMAD AHAMAD ALIKHAN
38	U16CS041	LAAVANYA G A
39	U16CS042	MD NOORUL ISLAM
40	U16CS043	RAVI KUMAR
41	U16CS044	ADARSH BARANWAL
42	U16CS045	RAHUL TIWARI
43	U16CS046	MARELLA VENKATA SUNEEL
44	U16CS047	AMARULLAH ALI
45	U16CS048	A R KARAN


COURSE COORDINATOR


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CERTIFICATE OF PARTICIPATION

This certificate is presented to

S.Suya Sundarraaj

For actively participating in the value added course "Introduction to Oracle"
Conducted by School of Computing, BIHER from 26.09.2017 to 13.10.2017.

COURSE COORDINATORS

HEAD OF THE DEPARTMENT

DIRECTOR

COURSE FEEDBACK FORM

Academic Year		2017-2018							
Term		ODDSEM							
Course Number									
Course Title		INTRODUCTION TO ORACLE							
Number of Credits									
Type of Course	Regular		Elective		Add-on	<input checked="" type="checkbox"/>			
I. Information on the Respondent: (Tick (✓) Appropriately)									
1. Percentage of classes attended									
0-20		20-40		40-60		60-80	<input checked="" type="checkbox"/>	80-100	
2. Number of hours per week spent on the course (Other than lecture hours)									
0-2		2-4		4-6	<input checked="" type="checkbox"/>	6-8		8-10	
3. Preparation for the course by the student:									
(i)	Have done part of this course earlier						yes		
(ii)	Has adequate prior exposure to the prerequisites						yes		
(iii)	Had to pickup relevant additional topics through concurrent study						yes		
(iv)	Have no exposure to the background material						yes		
4. The expectations for taking the course by the student are:									
(a)	Enhance by skill base in the area of specializations						yes		
(b)	Get exposed to a relevant subject						yes		
(c)	Curiosity						yes		
(d)	Better Employment Opportunity						yes		
(e)	Complete Course requirements						yes		
(f)	To Improve CGPA						yes		
About the Instructor: Information on the Respondent: (Tick (✓) Appropriately)									
		A	B	C	D	E			
1.	Pace of the Teaching/lecture		<input checked="" type="checkbox"/>						
2.	Comment of the Subject			<input checked="" type="checkbox"/>					
3.	Clarity of expression		<input checked="" type="checkbox"/>						
4.	Level of preparation		<input checked="" type="checkbox"/>						
5.	Level of interaction			<input checked="" type="checkbox"/>					
6.	Accessibility outside the class		<input checked="" type="checkbox"/>						
7.	Others (please specify		<input checked="" type="checkbox"/>						
A: Excellent		B: Very Good		C: Good		D: Satisfactory		E: Poor	


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COURSE FEEDBACK FORM

Academic Year		2017-2018				
Term		odd sem				
Course Number						
Course Title		Introduction to Oracle				
Number of Credits						
Type of Course	Regular		Elective		Add-on	✓

I. Information on the Respondent: (Tick (✓) Appropriately)

1. Percentage of classes attended

0-20		20-40		40-60		60-80	✓	80-100	
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2. Number of hours per week spent on the course (Other than lecture hours)

0-2		2-4		4-6	✓	6-8		8-10	
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3. Preparation for the course by the student:

(i)	Have done part of this course earlier	yes
(ii)	Has adequate prior exposure to the prerequisites	yes
(iii)	Had to pickup relevant additional topics through concurrent study	yes
(iv)	Have no exposure to the background material	yes

4. The expectations for taking the course by the student are:

(a)	Enhance by skill base in the area of specializations	yes
(b)	Get exposed to a relevant subject	yes
(c)	Curiosity	yes
(d)	Better Employment Opportunity	yes
(e)	Complete Course requirements	yes
(f)	To Improve CGPA	yes

About the Instructor: Information on the Respondent: (Tick (✓) Appropriately)

		A	B	C	D	E
1.	Pace of the Teaching/lecture		✓			
2.	Comment of the Subject		✓			
3.	Clarity of expression			✓		
4.	Level of preparation		✓			
5.	Level of interaction		✓			
6.	Accessibility outside the class			✓		
7.	Others (please specify)		✓			

A: Excellent		B: Very Good		C: Good		D: Satisfactory		E: Poor	
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CIRCULAR

28.10.2017

The School of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on '**C' Programming Concepts** for the benefit of II, III and IV year students. This course is scheduled from 03.11.2017 for 30hours which includes theory and practical. The timings are 1:30 PM to 4:30 PM from Friday (AN) and Saturday (FN&AN).

All Registered Students must attend all the classes without fail. The following faculty members are assigned to handle the course

S.No	Name of the Faculty	Designation
1	Mr.K.Sivaraman	Assistant Professor
2	Mr.B.Sundarrajan	Assistant Professor

Head of Department

To

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Department of Computer Science & Engg.,
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CERTIFICATE COURSE ON 'C' PROGRAMMING CONCEPTS

Date of Introduction of the Course: 28.10.2017

COURSE SYLLABUS

1. Introduction to C Programming

Fundamentals in C- A Simple C Program-Program execution phases-Character set-Constants-Number systems-Format specifiers-Identifiers -Variables-Data types-Keywords-Comments.

2. Operators and Expression

Arithmetic operators- Increment and decrement operators- Relational operators-Logical operators- Bitwise operators- Conditional operator- Size of operator- Type casting operator-Precedence and order of evaluation- Programming Examples-Operands-Expressions.

3. Input-Output Library Functions

Unformatted I-O Functions- Single Character Input-Output- String Input-Output- Formatted I-O Functions- printf() Width Specifier- scanf() Width Specifier- Programming Examples.

4. Conditional Statements

if- if-else- nested if-else- else-if ladder –Multiple Branching Control Statement- switch-case- Programming Examples.

5. Looping Statements

Loop Control Statements- while –do-while –for –Nested Loops –Jump Control statements –break –continue –goto –exit –return- Programming Examples.

6. Function

What is function? –Why function? –Advantages of using functions –Function Prototype – Defining a function –Calling a function –Return statement –Types of functions –Recursion – Nested functions –main() function –Library Function –Local and global variables – Programming Examples.

7. Storage class

Types of storage class –Scoping rules –Dealing with all storage classes –Programming Examples.

8. Arrays

One dimensional arrays –Declaration of 1D arrays –Initialization of 1D arrays –Accessing element of 1D arrays –Reading and displaying elements –Two dimensional arrays – Declaration of 2D arrays –Initialization of 2D arrays –Accessing element of 2D arrays – Reading and displaying elements –Programming Examples.

9. Pointers

Def of Pointer –Declaration of Pointer Variables –Assigning Address to Pointer Variables – De-referencing Pointer Variables –Pointer to Pointer –Pointer Arithmetic –Pointer comparisons –De-reference and increment pointer –pointer to const data –const pointer – const pointer to const data –Void pointer or Generic Pointer –Null pointer –wild pointer – Programming Examples.

10. Dynamic memory allocation

malloc() –calloc() –realloc()–free() –Core dump –Memory leak –Dynamic 1D and 2D Arrays –What is pre-processing? –Macro expansions –File inclusions –Conditional compilation –The stringification(#) and token passing operator –(##) operators –Programming Examples.

11. Strings

Strings versus character arrays –Initializing strings –Reading string –Displaying string –The %s format specifier –The gets() and puts() functions –string handling functions –string pointers –Two-dimensional character arrays or array of string –array of pointers to strings – Programming Examples.

12. Structure

What is structure? –Advantages of structures –Defining a Structure –Declaration of Structure Variables –Initialization of Structure Variables –Accessing Structure Members –Storage of Structures in Memory –Size of Structures –Reading and Displaying Structure Variables – Assignment of Structure Variables –Pointers to structures –Array of structures –Arrays within structures –Nested structures- Programming Examples.

13. Union and Enumeration

What are unions? –Structures versus unions –Working with unions –Initializing unions – Advantages of unions –enum keyword –typedef keyword –Programming Examples.

14. File Handling

Using files in C –Buffer and streams –Working with text files and Binary Files –File operations using std. library and system calls –File management I/O functions –Random Access Files –Programming Examples.

15. Process ,Threads and Graphics

What is process & Threads –Use of fork, vfork –Daemon process –Programming Example- Graphics using Glade interface with GTK+ –Working with GTK Widgets, Event handling – Developing Application Interfaces.

COURSE OBJECTIVES

In this course we plan to give students an overview of the C Programming, and an in-depth study into Facility in using common programming constructs, including loops and conditionals, Facility in performing stream input/output, Pointer, Structures ,Unions ,Pre-processor ,Arrays, Memory allocation , File handling and Graphics.

Specifically, the course has the following objectives:

Students will learn

- 1) Read, understand and trace the execution of programs written in C language.
- 2) Able to Write programs that perform operations using data types ,operators and Variables.

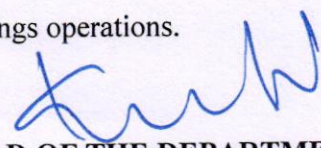
3) Implement Programs with pointers and arrays, perform pointer arithmetic, and use the pre-processor.

4) Understanding the concept of functions, Pointers ,Structures and Unions.

5) Ability to work with Graphics Packages ,File handling and Strings operations.



COURSE COORDINATOR



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CERTIFICATE COURSE ON 'C' PROGRAMMING CONCEPTS

Date of Introduction of the Course: 28.10.2017

The timings are 1:30 PM to 4:30 PM from Friday (AN) and Saturday (FN&AN).

Time Table & Lesson plan

CLASS	DATE	TOPIC
1,2	03-11-2017(AN)	1. Introduction to C Programming Fundamentals in C- A Simple C Program-Program execution phases-Character set-Constants-Number systems-Format specifiers-Identifiers -Variables-Data types-Keywords-Comments
3,4	04-11-2017(FN)	2. Operators and Expression Arithmetic operators- Increment and decrement operators- Relational operators-Logical operators- Bitwise operators- Conditional operator- Size of operator- Type casting operator- Precedence and order of evaluation- Programming Examples- Operands-Expressions.
5,6	04-11-2017(AN)	3. Input-Output Library Functions Unformatted I-O Functions- Single Character Input-Output- String Input-Output- Formatted I-O Functions- printf() Width Specifier- scanf() Width Specifier- Programming Examples.
7,8	04-11-2017(AN)	4. Conditional Statements if- if-else- nested if-else- else-if ladder -Multiple Branching Control Statement- switch-case- Programming Examples.
9,10	04-11-2017(AN)	5. Looping Statements Loop Control Statements- while -do-while -for - Nested Loops -Jump Control statements -break - continue -goto -exit -return- Programming Examples.
11,12	11-11-2017(FN)	6. Function What is function? -Why function? -Advantages of using functions -Function Prototype -Defining a function -Calling a function -Return statement - Types of functions -Recursion -Nested functions - main() function -Library Function -Local and global variables -Programming Examples.

13,14	11-11-2017(AN)	7. Storage class Types of storage class –Scoping rules –Dealing with all storage classes –Programming Examples.
15,16	11-11-2017(AN)	8. Arrays One dimensional arrays –Declaration of 1D arrays – Initialization of 1D arrays –Accessing element of 1D arrays –Reading and displaying elements –Two dimensional arrays –Declaration of 2D arrays – Initialization of 2D arrays –Accessing element of 2D arrays –Reading and displaying elements – Programming Examples.
17,18	17-11-2017(AN)	9. Pointers Def of Pointer –Declaration of Pointer Variables – Assigning Address to Pointer Variables –De-referencing Pointer Variables –Pointer to Pointer – Pointer Arithmetic –Pointer comparisons –De-reference and increment pointer –pointer to const data –const pointer –const pointer to const data – Void pointer or Generic Pointer –Null pointer –wild pointer –Programming Examples.
19,20	18-11-2017(FN)	10. Dynamic memory allocation malloc() –calloc() –realloc()–free() –Core dump – Memory leak –Dynamic 1D and 2D Arrays -What is pre-processing? –Macro expansions –File inclusions –Conditional compilation –The stringification(#)and token passing operator –(##) operators – Programming Examples.
21,22	18-11-2017(AN)	11. Strings Strings versus character arrays –Initializing strings – Reading string –Displaying string –The %s format specifier –The gets() and puts() functions –string handling functions –string pointers –Two-dimensional character arrays or array of string –array of pointers to strings –Programming Examples.
23,24	18-11-2017(AN)	12. Structure What is structure? –Advantages of structures – Defining a Structure –Declaration of Structure Variables –Initialization of Structure Variables – Accessing Structure Members –Storage of Structures in Memory –Size of Structures –Reading and Displaying Structure Variables –Assignment of Structure Variables –Pointers to structures –Array of structures –Arrays within structures –Nested structures- Programming Examples.
25,26	24-11-2017(AN)	13. Union and Enumeration What are unions? –Structures versus unions –

		Working with unions –Initializing unions – Advantages of unions –enum keyword –typedef keyword –Programming Examples
27,28	25-11-2017(FN)	14. File Handling Using files in C –Buffer and streams –Working with text files and Binary Files –File operations using std. library and system calls –File management I/O functions –Random Access Files –Programming Examples.
29,30	25-11-2017(AN)	15. Process ,Threads and Graphics What is process & Threads –Use of fork, vfork – Daemon process –Programming Example- Graphics using Glade interface with GTK+ –Working with GTK Widgets, Event handling –Developing Application Interfaces.



COURSE COORDINATOR



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Chennai-600 073. INDIA



CERTIFICATE COURSE ON 'C' PROGRAMMING CONCEPTS

Date of Introduction of the Course: 28.10.2017

School of Computing Registered Students Name List

S.NO	REG.NO	NAME OF THE STUDENT
1	U14CS001	AADHITYA MALLIKA ARJUN
2	U14CS002	AAVULA DIXITH REDDY
3	U14CS003	ABDUL RAHIM.M
4	U14CS004	ABDUL RAZVI .M.K
5	U14CS005	ABDUR RASEED
6	U14CS006	ABHIKAMALI .A
7	U14CS007	ABHISHEK MANDURI
8	U14CS008	AJAY.D
9	U14CS009	AKASH CHANDRA AMBASTHA
10	U14CS010	AKHIL REDDY.G
11	U14CS011	AKSHAY.R
12	U14CS012	AMAR BASUMATARY
13	U14CS013	ANDREW JOSEPH.V
14	U14CS015	ANKITA
15	U14CS016	ANNILKRISHNAN .K
16	U14CS017	ASHUTOSH SRIVASTAVA
17	U14CS019	ARAMBAKAM,YASWANATH
18	U14CS021	AREEF SYED
19	U14CS022	ARUN KUMAR SINGH
20	U14CS023	ASIF NAZIR WANI
21	U14CS024	ATUL ANAND
22	U14CS025	BACHU HARISH
23	U14CS027	BALAJI SINGH. T
24	U14CS029	BALAKRISHNAN.T
25	U14CS031	BISHAL BANIK

26	U14CS033	BOORAGADDA VAMSI KRISHNA
27	U14CS034	BOYAPATI VINAY
28	U14CS035	BYSANI VENKAT SANDEEP
29	U14CS038	CHIDIRALA.SAI SHANKAR
30	U14CS040	CHINTAPANTI SRIKANTH
31	U14CS041	CHINTLA VENKATESH
32	U14CS042	CHUDAAMANI.V
33	U14CS045	DEEPAKSANKAR REDDY.M
34	U14CS046	DEVARAPALLI HIMAKAR
35	U14CS047	DEVULAPALLY NAGARAJU
36	U14CS048	DIVYA RUPINI.B


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CERTIFICATE OF PARTICIPATION

This certificate is presented to

DIVYA RUPINI.B

For actively participating in the value added course on “’C’ Programming Concepts ”
Conducted by School of Computing, BIHER from 03.11.2017 to 25.11.2017.

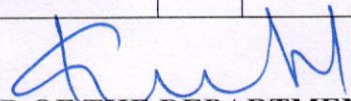
COURSE COORDINATORS

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DIRECTOR

COURSE FEEDBACK FORM

Academic Year		2017 - 2018								
Term										
Course Number										
Course Title		'c' Programming Concepts								
Number of Credits										
Type of Course	Regular		Elective		Add-on				✓	
I. Information on the Respondent: (Tick (✓) Appropriately)										
1. Percentage of classes attended										
0-20		20-40		40-60		60-80		80-100	✓	
2. Number of hours per week spent on the course (Other than lecture hours)										
0-2		2-4		4-6		6-8	✓	8-10		
3. Preparation for the course by the student:										
(i)	Have done part of this course earlier								NO	
(ii)	Has adequate prior exposure to the prerequisites								NO	
(iii)	Had to pickup relevant additional topics through concurrent study								NO	
(iv)	Have no exposure to the background material								Yes	
4. The expectations for taking the course by the student are:										
(a)	Enhance by skill base in the area of specializations								yes	
(b)	Get exposed to a relevant subject								yes	
(c)	Curiosity								yes	
(d)	Better Employment Opportunity								yes	
(e)	Complete Course requirements								yes	
(f)	To Improve CGPA								yes	
About the Instructor: Information on the Respondent: (Tick (✓) Appropriately)										
		A		B		C		D	E	
1.	Pace of the Teaching/lecture	5								
2.	Comment of the Subject	5								
3.	Clarity of expression	5								
4.	Level of preparation	5								
5.	Level of interaction			5						
6.	Accessibility outside the class	5								
7.	Others (please specify)	-		-						
A: Excellent		✓	B: Very Good			C: Good			D: Satisfactory	
									E: Poor	


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CIRCULAR

21.10.2017

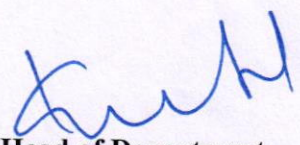
The School of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on **Network Security Analysis** for the benefit of II, III and IV year students. This course is scheduled from 28.10.2017 for 28hours which includes theory and practical. The timings are 2:00 PM to 4:00 PM from Tuesday (AN) and Friday (AN).

All Registered Students must attend all the classes without fail. The following faculty members are assigned to handle the course. S.NO	Name of the Faculty	Designation
1	D.Jeya Priya	Assistant Professor
2	C.Geetha	Assistant Professor

To

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HEAD OF DEPARTMENT
Department of Computer Sci. & Engg.,
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CERTIFICATE COURSE ON NETWORK SECURITY ANALYSIS

Date of Introduction of the Course: 28.10.2017

The timings are 2.00 PM to 4: PM from Tuesday (AN) and Friday (AN).

Time Table & Lesson plan

CLASS	DATE	TOPIC
1,2	28-10-2017(AN)	1. Security in Computing Environment Need for Security, Security Attack, Security Services, Information Security, Methods of Protection.
3,4	30-10-2017 (AN)	2. Basics of Cryptography: Terminologies used in Cryptography, Substitution Techniques, Transposition Techniques. Instantaneous provisioning of computing resources, tapping into an infinite storage capacity, Cost-effective pay-as-you-use billing models
5,6	31-10-2017(AN)	3. Encryption and Decryption: Characteristics of Good Encryption Technique, Properties of Trustworthy Encryption Systems, Types of Encryption Systems, Confusion and Diffusion, Cryptanalysis.
7,8	01-11-2017 (AN)	4. Exploiting Software as a Service (SaaS) Characterizing SaaS-Streamlining administration with centralized installation, Optimizing cost and performance with scale on demand Symmetric Key Encryption: Data Encryption Standard (DES) Algorithm, Double and Triple DES, Security of the DES, Advanced Encryption Standard (AES) Algorithm,

		Algorithm, DES and AES Comparison.
9,10	02-11-2017 (AN)	5. Public Key Encryption: Characteristics of Public Key System, RSA Technique, Key Exchange, Diffie-Hellman Scheme, Cryptographic Hash Functions, Digital Signature, Certificates, Certificate Authorities.
11,12	03-11-2017 (AN)	6. Protection of Computing Resources: Secure Programs, Non-malicious Program Errors, Viruses and Other Malicious Code, Targeted Malicious Code, Methods of Control.
13,14	04-11-2017 (AN)	7 Protection of Computing Resources: Secure Programs, Non-malicious Program Errors, Viruses and Other Malicious Code, Targeted Malicious Code, Methods of Control
15,16	06-11-2017 (AN)	8. Designing Trusted Operating Systems: Types of Security Policies, Models of Security, Design of OS.
17,18	07-11-2017 (AN)	9. Network Security: Network Concepts, Threats in Networks, Network Security Controls.
19,20	08-11-2017 (AN)	10. . IP Security: Overview of IP Security (IPSec), IP Security Architecture, Modes of Operation, Security Associations (SA), Authentication Header (AH), Encapsulating Security Payload (ESP), Internet Key Exchange.
21,22	09-11-2017 (AN)	11. Web Security: Web Security Requirements, Secure Socket Layer (SSL), Transport Layer Security (TLS), Secure Electronic Transaction (SET).
23,24	10-11-2017 (AN)	12. . Electronic Mail Security: Threats to E-Mail, Requirements and Solutions,

		Encryption for Secure E-Mail, Secure E-Mail System.
25,26	11-11-2017 (AN)	13. Firewalls: Firewalls – Types, Comparison of Firewall Types, Firewall Configurations.
27,28	13-11-2017 (AN)	14. Planning and Enforcing Security Policies: Planning Security Policies, Risk Analysis, Security Policies for an Organization, External Security.

COURSE COORDINATOR

HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT
Department of Computer Science & Engg.,
Bharath Institute of Higher Education & Research
(Declared as Deemed to be University U/S 3 of UGC Act, 1956)
Chennai-600 073. INDIA



Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

(Declared as Deemed-to-be University under section 3 of UGC Act 1956)

CERTIFICATE COURSE ON NETWORK SECURITY ANALYSIS

Date of Introduction of the Course: 28.10.2017

COURSE SYLLABUS

1. Security in Computing Environment

Need for Security, Security Attack, Security Services, Information Security, Methods of Protection.

2. Basics of Cryptography:

Terminologies used in Cryptography, Substitution Techniques, Transposition Techniques.

Instantaneous provisioning of computing resources, tapping into an infinite storage capacity, Cost-effective pay-as-you-use billing models

3. Encryption and Decryption:

Characteristics of Good Encryption Technique, Properties of Trustworthy Encryption Systems, Types of Encryption Systems, Confusion and Diffusion, Cryptanalysis.

ARTMENT

4. Symmetric Key Encryption:

Data Encryption Standard (DES) Algorithm, Double and Triple DES, Security of the DES, Advanced Encryption Standard (AES) Algorithm, DES and AES Comparison.

5. Public Key Encryption:

Characteristics of Public Key System, RSA Technique, Key Exchange, Diffie-Hellman Scheme, Cryptographic Hash Functions, Digital Signature, Certificates, Certificate Authorities.

6. Protection of Computing Resources:

Secure Programs, Non-malicious Program Errors, Viruses and Other Malicious Code, Targeted Malicious Code, Methods of Control.

7. Protection of Computing Resources:

Secure Programs, Non-malicious Program Errors, Viruses and Other Malicious Code, Targeted Malicious Code, Methods of Control.

8. Designing Trusted Operating Systems:

Types of Security Policies, Models of Security, Design of OS.

9. Network Security:

Network Concepts, Threats in Networks, Network Security Controls.

10. IP Security:

Overview of IP Security (IPSec), IP Security Architecture, Modes of Operation, Security Associations (SA), Authentication Header (AH), Encapsulating Security Payload (ESP), Internet Key Exchange.

11. Web Security:

Web Security Requirements, Secure Socket Layer (SSL), Transport Layer Security (TLS), Secure Electronic Transaction (SET).

12. Electronic Mail Security: Threats to E-Mail, Requirements and Solutions, Encryption for Secure E-Mail, Secure E-Mail System.

13. Firewalls:

Firewalls – Types, Comparison of Firewall Types, Firewall Configurations.

14. Planning and Enforcing Security Policies:

Planning Security Policies, Risk Analysis, Security Policies for an Organization, External Security.

COURSE OBJECTIVES

In this course we plan to give students an overview of the field of Network Security, and an in-depth study into its enabling technologies and main building blocks. Students will gain hands-on experience solving relevant problems through projects that will utilize existing public cloud tools. It is our objective that students will develop the skills needed to become a practitioner or carry out research projects in this domain.

Specifically, the course has the following objectives:

Students will learn

- 1) The fundamental ideas behind Cloud Network security, the evolution of the paradigm, its applicability; Benefits, as well as current and future challenges;
- 2) The basic ideas and principles in data centre design; Network security techniques and cloud Software deployment considerations;
- 3) Different CPU, memory and I/O virtualization techniques that serve in offering software, computation and storage services on the cloud; Software Defined Networks (SDN) and Software Defined Storage (SDS);
- 4) The variety of programming models and develop working experience in several of them.

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CERTIFICATE COURSE ON NETWORK SECURITY ANALYSIS

Date of Introduction of the Course: 28.10.2017

School of Computing		
Registered Students Name List		
S.NO	REG.NO	NAME OF THE STUDENT
1	U14CS111	NAGINENI SRIKANTH CHOWDARY
2	U14CS112	NAGIREDDY MOHAN KRISHNA REDDY
3	U14CS113	NALLAJARLA CHAKRADHAR
4	U14CS114	NANDALA SWETHA
5	U14CS115	NANDIPALLI MOUNICA
6	U14CS116	NAYANA.P. BALA CHANDRAN
7	U14CS117	NEERAJAN SAHA
8	U14CS129	PIYALI CHAKRABORTHY.M
9	U14CS130	POOJA KUMARI
10	U14CS131	PRAGYA ADITI
11	U14CS132	PRASHANTH.B
12	U14CS133	PRATEEP ANAND
13	U14CS134	PRINCE RAJ
14	U14CS143	RAJNISH RANJAN PANDEY
15	U14CS144	RAKESH KUMAR
16	U14CS145	RAKHI PRASAD
17	U14CS146	RAM KUMAR PANDEY
18	U14CS147	RAMANATHAN.J
19	U15CS192	SESHA SRUJAN.B
20	U15CS193	SHAIK AFRIDI
21	U15CS196	SHARYARAI.S
22	U15CS200	SITAROJ SRIKANTH
23	U15CS203	SUBASH CHANDRAN.V
24	U15CS204	SUBHAM RAY
25	U15CS205	SUDALAGUNTA GOPI

26	U15CS206	SUJEET KRISHNA KUMAR K
27	U15CS211	THARUN PRANAV K.S.
28	U15CS212	UTTAM KUMAR
29	U15CS213	VADLAMUDI HARISH KUMAR
30	U15CS217	VERISETTY SUBBARAO
31	U15CS218	VETCHA VENKATA KRISHNA TEJA
32	U15CS225	VINOTHKUMAR.J
33	U15CS226	VUNDAVELLI VEERA VENKATA SATYANARAYANA
34	U15CS233	KARAN PRINCY.P
35	U15CS246	J.SAI RAM MADHAV
36	U15CS247	CHIMALAMUDI VINEEL
37	U15CS250	MUTHULAKSHMI.M
38	U16CS177	VAKA MAHENDRA REDDY
39	U16CS178	TIPPAREDDY NARENDRA REDDY
40	U16CS179	EDA MADANAMOHAN REDDY
41	U16CS180	THATI RAGHAVA
42	U16CS183	ARAVINDASAMY R
43	U16CS184	AJAY KUMAR S
44	U16CS185	MD TAJUDDIN HAWARI
45	U16CS186	PERUGU KALYAN CHAKRAVARTHI
46	U16CS193	MUNAGANURU SAI ANUDEEP
47	U16CS194	GADDAM AMARA HARSHAVARDHAN REDDY
48	U16CS195	BOLLAM MANINDRA
49	U16CS201	BATTULA KALYAN
50	U16CS202	SHAIK MOHAMMAD WASEEM
51	U16CS203	GANAMANTHU SUBBARAYUDU
52	U16CS204	GADDALA UDAY KIRAN
53	U16CS206	PATHAN SALMANKHAN
54	U16CS207	YENUGU KASI GOVARDHAN REDDY
55	U16CS208	MANIKANTAN
56	U16CS209	DIPANJAN DAS
57	U16CS210	TANIRU SATISH
58	U16CS701	PRADEEP SURIYA
59	U16CS702	MOHANRAJ
60	U16CS703	HARVINDER SINGH

61	U16CS707	HANUMANTHU RAO
62	U16CS708	SIMRAN ALIZA NISAR

COURSE COORDINATOR

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CERTIFICATE OF PARTICIPATION

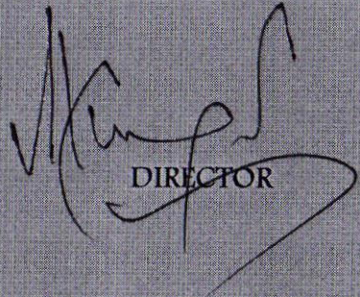
This certificate is presented to

PRINCE RAJ

For actively participating in the value added course "Network Security Analysis"
Conducted by School of Computing, BIHER from 28.10.2017 to 13.11.2017.


COURSE COORDINATORS


HEAD OF THE DEPARTMENT


DIRECTOR

COURSE FEEDBACK FORM

Academic Year		2017-2018					
Term		ODDSEM					
Course Number							
Course Title		NETWORK SECURITY ANALYSIS					
Number of Credits							
Type of Course	Regular		Elective		Add-on	<input checked="" type="checkbox"/>	

I. Information on the Respondent: (Tick (√) Appropriately)

1. Percentage of classes attended

0-20		20-40		40-60		60-80	<input checked="" type="checkbox"/>	80-100	
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2. Number of hours per week spent on the course (Other than lecture hours)

0-2		2-4		4-6	<input checked="" type="checkbox"/>	6-8		8-10	
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3. Preparation for the course by the student:

(i)	Have done part of this course earlier	YES
(ii)	Has adequate prior exposure to the prerequisites	YES
(iii)	Had to pickup relevant additional topics through concurrent study	YES
(iv)	Have no exposure to the background material	YES

4. The expectations for taking the course by the student are:

(a)	Enhance by skill base in the area of specializations	YES
(b)	Get exposed to a relevant subject	YES
(c)	Curiosity	YES
(d)	Better Employment Opportunity	YES
(e)	Complete Course requirements	YES
(f)	To Improve CGPA	YES

About the Instructor: Information on the Respondent: (Tick (√) Appropriately)

		A	B	C	D	E
1.	Pace of the Teaching/lecture		<input checked="" type="checkbox"/>			
2.	Content of the Subject			<input checked="" type="checkbox"/>		
3.	Clarity of expression		<input checked="" type="checkbox"/>			
4.	Level of preparation		<input checked="" type="checkbox"/>			
5.	Level of interaction			<input checked="" type="checkbox"/>		
6.	Accessibility outside the class		<input checked="" type="checkbox"/>			
7.	Others (please specify)		<input checked="" type="checkbox"/>			

A: Excellent		B: Very Good		C: Good		D: Satisfactory		E: Poor	
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COURSE FEEDBACK FORM

Academic Year		2017-2018					
Term		ODD SEM					
Course Number							
Course Title		NETWORK SECURITY ANALYSIS					
Number of Credits							
Type of Course	Regular		Elective		Add-on	/	

I. Information on the Respondent: (Tick (√) Appropriately)

1. Percentage of classes attended

0-20		20-40		40-60		60-80	✓	80-100	
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2. Number of hours per week spent on the course (Other than lecture hours)

0-2		2-4		4-6	✓	6-8		8-10	
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3. Preparation for the course by the student:

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(iii)	Had to pickup relevant additional topics through concurrent study	YES
(iv)	Have no exposure to the background material	YES

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(a)	Enhance by skill base in the area of specializations	YES
(b)	Get exposed to a relevant subject	YES
(c)	Curiosity	YES
(d)	Better Employment Opportunity	YES
(e)	Complete Course requirements	YES
(f)	To Improve CGPA	YES

About the Instructor: Information on the Respondent: (Tick (√) Appropriately)

		A	B	C	D	E
1.	Pace of the Teaching/lecture					
2.	Comment of the Subject					
3.	Clarity of expression					
4.	Level of preparation					
5.	Level of interaction					
6.	Accessibility outside the class					
7.	Others (please specify)					

A: Excellent	B: Very Good	C: Good	D: Satisfactory	E: Poor
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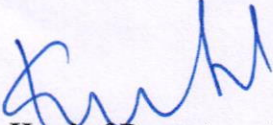
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CIRCULAR

20.10.2017

The School of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on **Course on Oracle ERP Certification** for the benefit of II year students. This course is scheduled from 28.10.2017 for 30hours which includes theory and practical. The timings are 2.00 PM to 4.00 PM from Monday(AN) to Saturday (AN).

All Registered Students must attend all the classes without fail. The following faculty members are assigned to handle the course. S.NO	Name of the Faculty	Designation
1	Mrs.C.Geetha	Asst Professor
2	Mrs.D.Jeyapriya	Asst Professor


Head of Department

To

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Department of Computer Science & Engg.,
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Chennai-600 073. INDIA



CERTIFICATE COURSE ON COURSE ON ORACLE ERP CERTIFICATION

Date of Introduction of the Course: 28.10.2017

The timings are 2.00 PM to 4.00 PM from Monday (AN) To Saturday (AN).

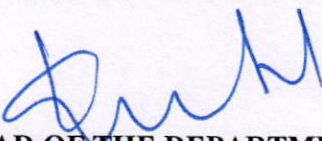
Time Table & Lesson plan

CLASS	DATE	TOPIC
1,2	28-10-2017 (AN)	1. Introduction to ERPCertifications <ul style="list-style-type: none"> ▪ About ERP ▪ Functional ERP modules ▪ Financials, HR ▪ Manufacturing, procurement ▪ Tasks performed by specific user groups, such as administrators, analysts, or functional users.
3,4	30-10-2017 (AN)	2. MCSA: Microsoft Dynamics 365 for Operations <ul style="list-style-type: none"> ▪ Expertise in Microsoft Dynamics 365 ▪ Implement the basic technical and development tasks ▪ Technical consultants, programmers, and IT personnel. ▪ Microsoft ERP certifications for the company's ERP platform ▪ Microsoft Dynamics 365.
5,6	31-10-2017 (AN)	3. Oracle SaaS ERP Certifications <ul style="list-style-type: none"> ▪ Financials Cloud ▪ Accounting Hub Cloud ▪ General Ledger Cloud ▪ Payables Cloud ▪ Receivables and Collections Cloud ▪ Revenue Management Cloud. ▪ Project Financials Management ▪ Cloud, and Risk Management Cloud
7,8	01-11-2017 (AN)	4. SAP Certifications <ul style="list-style-type: none"> ▪ Comprehensive up-to-date training ▪ Enablement across the SAP software portfolio ▪ Adopt innovative technology ▪ SAP Global Certification program leverage ▪ User-friendly enablement ▪ Certification to drive continuous learning ▪ SAP software focus areas, roles, and skill levels.

9,10	02-11-2017 (AN)	5. Udemy ERP Courses <ul style="list-style-type: none"> ▪ Udemy online learning platform ▪ Designed for professional adults and students ▪ How to use specific ERP softwares, ▪ SAP ERP ▪ Concepts that underpin ERP ▪ Project management tactics Udemy.
11,12	03-11-2017 (AN)	6. NetSuite Certification Program <ul style="list-style-type: none"> ▪ NetSuite Certification Program ▪ Elite NetSuite professional network, ▪ Increase professional opportunities ▪ NetSuite Certified individuals for networking ▪ The NetSuite ERP Consultant Certification exams and Suite Foundation Exam ▪ ERP Consultant Exam.
13,14	04-11-2017 (AN)	7. Oracle Enterprise Management Certifications <ul style="list-style-type: none"> ▪ Oracle Enterprise Manager Certification path ▪ Opportunity to demonstrate their skills in application, ▪ Middleware, database and storage management ▪ Oracle Enterprise Manager 12c Certified Implementation ▪ Specialist exam (1Z0-457) certifies a candidate's expertise in physical, ▪ Virtual and cloud environments ▪ Support of Oracle Enterprise Manager.
15,16	06-11-2017 (AN)	8. Oracle Database Foundations Certified Junior Associate <ul style="list-style-type: none"> ▪ Oracle Database Foundation ▪ Certified Junior Associate credential targets ▪ Computer science and database teachers ▪ Databases and computer science. ▪ Oracle Database Foundations (novice-level exam) (1Z0-006).
17,18	07-11-2017 (AN)	9. Oracle Certified Associate (OCA) – Oracle Database 12c Administrator <ul style="list-style-type: none"> ▪ OCA certification measures ▪ Oracle Certified Associate Skills ▪ Operational management database skills ▪ SQL exam ▪ Oracle Database administration.
19,20	08-11-2017 (AN)	10. Oracle Certified Associate – Oracle Database 12cR2 Administrator <ul style="list-style-type: none"> ▪ To learn the Oracle Database 12cR2 OCA credential ▪ Oracle Database SQL Certified Associate ▪ Oracle Database 11g Administrator ▪ Oracle Database 12c Administrator Certified Associate.

21,22	09-11-2017 (AN)	11. Oracle Certified Professional (OCP) – Oracle Database 12c Administrator <ul style="list-style-type: none"> ▪ OCP certification covers more advanced database skills. ▪ OCA Database 12c Administrator certification ▪ Complete training to submit a course submission form ▪ Oracle Database 12c: Advanced Administration (1Z0-063) exam ▪ Oracle Database 11g Administrator Certified Professional
23,24	10-11-2017 (AN)	12. Oracle Certified Expert (OCE) – Oracle Database 12c <ul style="list-style-type: none"> ▪ Maximum Availability ▪ Data Guard Administrator, ▪ RAC and Grid Infrastructure Administrator, ▪ Performance Management ▪ Tuning credentials ▪ OSP Database 12c certificate ▪ Data Guard Administrator certification
25,26	11-11-2017 (AN)	13. Oracle Java and Middleware Certifications <ul style="list-style-type: none"> ▪ Java and Middleware certifications ▪ Span several subcategories ▪ Business Intelligence ▪ Application Server ▪ Cloud Application and Data Integration ▪ Identity Management, ▪ Mobile, Java and Oracle Fusion ▪ Middleware Development Tools ▪ System Administrator
27,28	13-11-2017 (AN)	14. Oracle Operating Systems certifications <ul style="list-style-type: none"> ▪ OCA and OCP Linux 6 ▪ System Administrator certifications ▪ Oracle Linux Certification ▪ Linux 6 Specialist ▪ Linux OCA and Specialist credentials
29,30	14-11-2017 (AN)	15. Oracle Virtualization certifications <ul style="list-style-type: none"> ▪ Oracle Virtual Machine (VM) Server for X86. ▪ Oracle VM 3.0 for X86 ▪ Oracle VM solutions ▪ Oracle VM 3.0 for x86 Certified Implementation Specialist Certification ▪ Intermediate-level team members ▪ Proficient in installing OVM 3.0 Server and OVM 3.0 Manager components.


COURSE COORDINATOR


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CERTIFICATE COURSE ON COURSE ON ORACLE ERP CERTIFICATION

Date of Introduction of the Course: 28.10.2017

COURSE SYLLABUS

1. Introduction about ERP Certifications

It's a good thing to note that due to varying degrees of knowledge, proficiency levels, and ERP knowledge areas, its common for ERP certification programs to be divided into functional areas. These usually tend to be separated by functional ERP modules (financials, HR, manufacturing, procurement, etc.), or by type of tasks performed by specific user groups, such as administrators, analysts, or functional users.

2. MCSA: Microsoft Dynamics 365 for Operations

This certification demonstrates your expertise in Microsoft Dynamics 365 technologies to implement the basic technical and development tasks required to customize Microsoft Dynamics 365 for Operations. This audience typically includes technical consultants, programmers, and IT personnel. Microsoft offers a number of ERP certifications for the company's ERP platform: Microsoft Dynamics 365.

3. Oracle SaaS ERP Certifications

Oracle provides many ERP certification paths, including **Financials Cloud**: Accounting Hub Cloud, General Ledger Cloud, Payables Cloud, Receivables and Collections Cloud, and Revenue Management Cloud. The company also offers Procurement Cloud, Project Financials Management Cloud, and Risk Management Cloud.

4. SAP Certifications

Get comprehensive, up-to-date training and enablement across the SAP software portfolio – in a variety of formats – to learn about and adopt innovative technology. The SAP Global Certification program leverages interactive, user-friendly enablement

and certification to drive continuous learning. SAP offers 150 plus globally recognized certifications for key SAP software focus areas, roles, and skill levels.

5. Udemy ERP Courses

Udemy is an online learning platform designed for professional adults and students. Whether you're interested in learning how to use specific ERP softwares, like SAP ERP, or simply want a broad introduction to the concepts that underpin ERP project management tactics, Udemy has a host of top-rated courses to help you achieve your goals.

6. NetSuite Certification Program

The NetSuite Certification Program allows individuals to become part of an elite NetSuite professional network, increase professional opportunities, distinguish themselves from non-certified peers and access a closed LinkedIn community of other NetSuite Certified individuals for networking. The NetSuite ERP Consultant Certification consists of two exams; the SuiteFoundation Exam and the ERP Consultant Exam.

7. Oracle Enterprise Management Certifications

The Oracle Enterprise Manager Certification path offers candidates the opportunity to demonstrate their skills in application, middleware, database and storage management. The Oracle Enterprise Manager 12c Certified Implementation Specialist exam (1Z0-457) certifies a candidate's expertise in physical, virtual and cloud environments, as well as design, installation, implementation, reporting, and support of Oracle Enterprise Manager.

8. Oracle Database Foundations Certified Junior Associate

The Oracle Database Foundation Certified Junior Associate credential targets those who've participated in the Oracle Academy through a college or university program, computer science and database teachers, and individuals studying databases and computer science. To earn this credential, candidates must pass the Oracle Database Foundations (novice-level exam) (1Z0-006).

9. Oracle Certified Associate (OCA) – Oracle Database 12c Administrator

The OCA certification measures the day-to-day operational management database skills of DBAs. Candidates must pass a SQL exam and another on Oracle Database administration.

10. Oracle Certified Associate – Oracle Database 12cR2 Administrator

To earn the Oracle Database 12cR2 OCA credential, candidates must first earn either the Oracle Database SQL Certified Associate, Oracle Database 11g Administrator Certified Associate, or the Oracle Database 12c Administrator Certified Associate.

11. Oracle Certified Professional (OCP) – Oracle Database 12c Administrator

The OCP certification covers more advanced database skills. You must have the OCA Database 12c Administrator certification, complete the required training, submit a course submission form and pass the Oracle Database 12c: Advanced Administration (1Z0-063) exam. Professionals who possess either the Oracle Database 11g Administrator Certified Professional or Oracle Database 12c.

12. Oracle Certified Expert (OCE) – Oracle Database 12c

The OCE Database 12c certifications include Maximum Availability, Data Guard Administrator, RAC and Grid Infrastructure Administrator, and Performance Management and Tuning credentials. All these certifications involve prerequisite certifications. Performance Management and Tuning takes the OSP Database 12c as a prerequisite and the Data Guard Administrator certification requires the OCP Database 12c credential.

13. Oracle Java and Middleware Certifications

The Java and Middleware certifications span several subcategories, such as Business Intelligence, Application Server, Cloud Application, Data Integration, Identity Management, Mobile, Java, Oracle Fusion Middleware Development Tools and more. Java and Middleware credentials represent all levels of the Oracle Certification Program – Associate, Professional and so on – and include Java Developer, Java Programmer, System Administrator, Architect and Implementation Specialist.

14. Oracle Operating Systems certifications

The Linux 6 certifications include OCA and OCP Linux 6 System Administrator certifications, as well as an Oracle Linux Certified Implementation Specialist certification. The Linux 6 Specialist is geared to partners but is open to all candidates. Both the Linux OCA and Specialist credentials require a single exam.

15. Oracle Virtualization certifications

The Virtualization certifications cover Oracle Virtual Machine (VM) Server for X86. This credential is based on Oracle VM 3.0 for X86, and recognizes individuals who sell and implement Oracle VM solutions. The Oracle VM 3.0 for x86 Certified Implementation Specialist Certification aim at intermediate-level team members proficient in installing OVM 3.0 Server and OVM 3.0 Manager components, discovering OVM Servers, configuring network and storage repositories and more.


COURSE OBJECTIVES

In this course we plan to give students an basic concepts about database and Oracle Certification.. Students will get enough knowledge about ERP commands and its execution. It is our aim to make students to know about different techniques and structures of oracle database. The students will develop their knowledge to do oracle coding and become a practitioner or carry out research projects in this domain.

Specifically, the course has the following objectives:

Students will learn

- 1) The fundamental ideas about database and the importance and usage of oracle Certification
- 2) Implementation of different Certification courses in database and consider about Software deployment
- 3) Different CPU, memory and I/O virtualization techniques that serve in offering software, computation and storage services. Oracle database is needed
- 4) Discuss different new database technologies and relevant distributed ERP Certification file systems and ERP Oracle object storages.
- 5) Students however first choose a certification path and then follow the links on the Oracle website to the required exam(s). If training is recommended or additional resources are available for a particular exam


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HEAD OF THE DEPARTMENT

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Department of Computer Science & Engg.,
Bharath Institute of Higher Education & Research
(Deciared as Deemed to be University U/S 3 of UGC Act, 1956)
Chennai-600 073. INDIA




CERTIFICATE COURSE ON "Course on Oracle ERP Certification"

Date of Introduction of the Course: 26.9.2017

School of Computing Registered Students Name List

S.NO	REG.NO	NAME OF THE STUDENT
1	U14CS033	BOORAGADDA VAMSI KRISHNA
2	U14CS034	BOYAPATI VINAY
3	U14CS035	BYSANI VENKAT SANDEEP
4	U14CS036	CHARAN.G
5	U14CS038	CHIDIRALA.SAI SHANKAR
6	U14CS056	GOUTHAM KALYAN KUMAR .R
7	U14CS058	KARTHIKEYAN.J
8	U14CS073	KATTA DINESH KUMAR
9	U14CS076	KILARI LAXMI SUDHA
10	U14CS078	KODALI AKHIL
11	U14CS080	KOVURI BALASUBHAKAR REDDY
12	U14CS082	KRISHNANDAN YADAV
13	U14CS085	LAKSHMI PRIYA.A
14	U14CS088	MADDIPATI BHARAT
15	U14CS093	MANIMALA.G
16	U14CS097	MEDARAMETLA BRAHMA RAO
17	U14CS100	MOHAMED SALMAN.R
18	U14CS108	MURALI .S
19	U14CS705	SHABEEK ABUTHAHIR.S
20	U15CS117	MANOJ KUMAR R
21	U15CS120	MARRIPUDI KRISHNA CHAITANYA
22	U15CS125	MOLAPANTI SIVA KALPANA
23	U15CS704	KARAM
24	U15CS505	C.KOUSHIK

25	U15CS221	VIGNESHWARAN.M
26	U15CS225	VINOTHKUMAR.J
27	U15CS226	VUNDAVELLI VEERA VENKATA SATYANARAYANA
28	U15CS058	GUNDA VINAY KUMAR
29	U15CS059	HANUMAN B
30	U15CS060	HARI HARAN M
31	U15CS061	HASTHI RUCHITHA
32	U16CS144	NAVEEN BALAJI P
33	U16CS146	MANDALAPU VENGALA REDDY
34	U16CS148	THANUBUDDI RAJASHEKAR REDDY
35	U16CS149	SUDIREDDY MUKESH REDDY
36	U16CS151	PODAPATI ASMITHA
37	U16CS153	GANGISETTI MANEESHA
38	U16CS154	MANGALURE KISHOR KUMAR
39	U16CS155	JEFFRIN RAJAN M
40	U16CS158	NIMBAGALLU KURUBA GURUMURTHY
41	U16CS159	JANA ARAVIND KUMAR
42	U16CS160	NARLA RAJESH
43	U16CS162	YEMIREDDY SRINIVASA REDDY
44	U16CS163	DAKA AKSHUTH KUMAR
45	U16CS164	MANDAVA MANOJ
46	U16CS165	MEKALA PANDU PREM KUMAR
47	U16CS006	SARAVANAN R
48	U16CS007	SANAM NAGA VENKATA SAI KRISHNA
49	U16CS008	CHEEMIREDDIGARI ANKITHAREDDY
50	U16CS009	RITIK RAJ
51	U16CS010	JOHAN KIRUBHAHAR P P


COURSE COORDINATOR


HEAD OF THE DEPARTMENT

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Department of Computer Science & Engg.,
Bharath Institute of Higher Education & Research
(Declared as Deemed to be University U/S 3 of UCC Act, 1956)
Chennai-600 073. INDIA



Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Declared as Deemed-to-be University under section 3 of UGC Act 1956)

CERTIFICATE OF PARTICIPATION

This certificate is presented to

J.KARTHIKEYAN

For actively participating in the value added course "Course on Oracle ERP Certification"
Conducted by School of Computing, BIHER from 28.10.2017 to 14.11.2017.

COURSE COORDINATORS

HEAD OF THE DEPARTMENT

DIRECTOR

COURSE FEEDBACK FORM

Academic Year		2017-2018			
Term		ODD SEM.			
Course Number					
Course Title		Course on Oracle ERP certification			
Number of Credits					
Type of Course	Regular		Elective		Add-on <input checked="" type="checkbox"/>

I. Information on the Respondent: (Tick (✓) Appropriately)

1. Percentage of classes attended

0-20		20-40		40-60	✓	60-80		80-100
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2. Number of hours per week spent on the course (Other than lecture hours)

0-2		2-4		4-6	✓	6-8		8-10
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3. Preparation for the course by the student:

(i)	Have done part of this course earlier	yes
(ii)	Has adequate prior exposure to the prerequisites	yes
(iii)	Had to pickup relevant additional topics through concurrent study	yes
(iv)	Have no exposure to the background material	yes

4. The expectations for taking the course by the student are:

(a)	Enhance by skill base in the area of specializations	yes
(b)	Get exposed to a relevant subject	yes
(c)	Curiosity	yes
(d)	Better Employment Opportunity	yes
(e)	Complete Course requirements	yes
(f)	To Improve CGPA	yes

About the Instructor: Information on the Respondent: (Tick (✓) Appropriately)

		A	B	C	D	E
1.	Pace of the Teaching/lecture			✓		
2.	Comment of the Subject		✓			
3.	Clarity of expression			✓		
4.	Level of preparation		✓			
5.	Level of interaction		✓			
6.	Accessibility outside the class			✓		
7.	Others (please specify)					

A: Excellent		B: Very Good		C: Good		D: Satisfactory		E: Poor
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COURSE FEEDBACK FORM

Academic Year		2017-2018			
Term		ODD SEM			
Course Number					
Course Title		Course on Oracle ERP Certification.			
Number of Credits					
Type of Course	Regular		Elective		Add-on <input checked="" type="checkbox"/>

I. Information on the Respondent: (Tick (✓) Appropriately)

1.	Percentage of classes attended								
	0-20		20-40		40-60		60-80		80-100

2.	Number of hours per week spent on the course (Other than lecture hours)								
	0-2		2-4		4-6		6-8		8-10

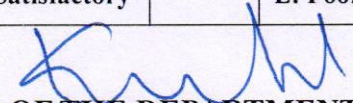
3.	Preparation for the course by the student:									
	(i)	Have done part of this course earlier								<input checked="" type="checkbox"/>
	(ii)	Has adequate prior exposure to the prerequisites								<input checked="" type="checkbox"/>
	(iii)	Had to pickup relevant additional topics through concurrent study								<input checked="" type="checkbox"/>
	(iv)	Have no exposure to the background material								<input checked="" type="checkbox"/>

4.	The expectations for taking the course by the student are:									
	(a)	Enhance by skill base in the area of specializations								<input checked="" type="checkbox"/>
	(b)	Get exposed to a relevant subject								<input checked="" type="checkbox"/>
	(c)	Curiosity								<input checked="" type="checkbox"/>
	(d)	Better Employment Opportunity								<input checked="" type="checkbox"/>
	(e)	Complete Course requirements								<input checked="" type="checkbox"/>
	(f)	To Improve CGPA								<input checked="" type="checkbox"/>

About the Instructor: Information on the Respondent: (Tick (✓) Appropriately)

		A	B	C	D	E
1.	Pace of the Teaching/lecture		<input checked="" type="checkbox"/>			
2.	Content of the Subject			<input checked="" type="checkbox"/>		
3.	Clarity of expression		<input checked="" type="checkbox"/>			
4.	Level of preparation		<input checked="" type="checkbox"/>			
5.	Level of interaction			<input checked="" type="checkbox"/>		
6.	Accessibility outside the class		<input checked="" type="checkbox"/>			
7.	Others (please specify)		<input checked="" type="checkbox"/>			

A: Excellent		B: Very Good		C: Good		D: Satisfactory		E: Poor
--------------	--	--------------	--	---------	--	-----------------	--	---------


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INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Declared as Deemed-to-be University under section 3 of UGC Act 1956)

CIRCULAR

27.11.2017

The School of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on **Cloud Application Development** for the benefit of II, III and IV year students. This course is scheduled from 01.12.2017 for 30 hours which includes theory and practical. Scheduled on Friday 1:30 PM to 4:30 PM (AN) and Saturday 9:30 AM to 4:30 PM (FN&AN).

All Registered Students must attend all the classes without fail. The following faculty members are assigned to handle the course. S.NO	Name of the Faculty	Designation
1	Dr.C.Nalini	Professor
2	Dr.C.Rajabhushanam	Professor

Head of Department

To

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HEAD OF DEPARTMENT
Department of Computer Science & Engg.,
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CERTIFICATE COURSE ON CLOUD APPLICATION DEVELOPMENT

Date of Introduction of the Course: 27.11.20217

COURSE SYLLABUS

1. Introduction to Cloud Computing

Defining cloud computing-Components of a computing cloud, differentiating types of clouds: public, private, hybrid Delivering services from the cloud-Categorizing service types- Comparing vendor cloud products: Amazon, Google, Microsoft and others-Adopting the Cloud

2. Key drivers of cloud computing solutions

Instantaneous provisioning of computing resources, tapping into an infinite storage capacity, Cost-effective pay-as-you-use billing models

3. Evaluating barriers to cloud computing

Handling sensitive data-Aspects of cloud security-Assessing governance solutions

4. Exploiting Software as a Service (SaaS)

Characterizing SaaS-Streamlining administration with centralized installation, Optimizing cost and performance with scale on demand

5. Comparing service scenarios

Improving collaboration with business productivity tools-Simplifying business process creation by integrating existing components

6. Inspecting SaaS technologies

Deploying web applications, implementing web services: SOAP, REST, Choosing a development platform

7. Delivering Platform as a Service (PaaS)

Exploring the technical foundation for PaaS, Specifying the components of PaaS, Analysing vendor PaaS provisions, selecting an appropriate implementation

8. Building services with solution stacks

Evaluating the architecture of vendor-specific platforms, Becoming familiar with service platform tools

9. Managing cloud storage

Controlling unstructured data in the cloud, Deploying relational databases in the cloud, improving data availability

10. Employing support services

Testing in the cloud, Monitoring cloud-based services, Analysing portability across platforms

11. Deploying Infrastructure as a Service (IaaS)

Enabling technologies-Scalable server clusters, Achieving transparency with platform virtualization, Elastic storage devices

12. Accessing IaaS

Provisioning servers on demand, handling dynamic and static IP addresses, Tools and support for management and monitoring

13. Building a Business Case

Calculating the financial implications-Comparing in-house facilities to the cloud, Estimating economic factors downstream

14. Preserving business continuity

Selecting appropriate service-level agreements, safeguarding access to assets in the cloud, Security, availability and disaster recovery strategies

15. Migrating to the Cloud

Technical considerations-Re-architecting applications for the cloud, integrating the cloud with existing applications, avoiding vendor lock-in, planning the migration and selecting a vendor

COURSE OBJECTIVES

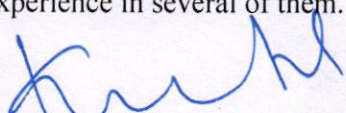
In this course we plan to give students an overview of the field of Cloud Computing, and an in-depth study into its enabling technologies and main building blocks. Students will gain hands-on experience solving relevant problems through projects that will utilize existing public cloud tools. It is our objective that students will develop the skills needed to become a practitioner or carry out research projects in this domain.

Specifically, the course has the following objectives:

Students will learn

- 1) The fundamental ideas behind Cloud Computing, the evolution of the paradigm, its applicability; Benefits, as well as current and future challenges;
- 2) The basic ideas and principles in data centre design; cloud management techniques and cloud software deployment considerations;
- 3) Different CPU, memory and I/O virtualization techniques that serve in offering software, computation and storage services on the cloud; Software Defined Networks (SDN) and Software Defined Storage (SDS);
- 4) Cloud storage technologies and relevant distributed file systems, NoSQL databases and object storage;
- 5) The variety of programming models and develop working experience in several of them.


COURSE COORDINATOR


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CERTIFICATE COURSE ON CLOUD APPLICATION DEVELOPMENT

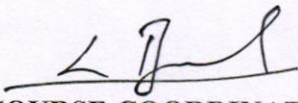
Date of Introduction of the Course: 27.11.20217


The timings are 1:30 PM to 4:30 PM from Friday (AN) and Saturday (FN&AN).

Time Table & Lesson plan

CLASS	DATE	TOPIC
1,2	01-12-2017(AN)	1. Introduction to Cloud Computing Defining cloud computing-Components of a computing cloud, differentiating types of clouds: public, private, hybrid Delivering services from the cloud-Categorizing service types-Comparing vendor cloud products: Amazon, Google, Microsoft and others-Adopting the Cloud
3,4	01-12-2017 (AN) 02-12-2017(FN)	2. Key drivers of cloud computing solutions Instantaneous provisioning of computing resources, tapping into an infinite storage capacity, Cost-effective pay-as-you-use billing models
5,6	02-12-2017(FN)	3. Evaluating barriers to cloud computing Handling sensitive data-Aspects of cloud security-Assessing governance solutions
7,8	02-12-2017 (FN) 02-12-2017(AN)	4. Exploiting Software as a Service (SaaS) Characterizing SaaS-Streamlining administration with centralized installation, Optimizing cost and performance with scale on demand
9,10	02-12-2017 (AN)	5. Comparing service scenarios Improving collaboration with business productivity tools-Simplifying business process creation by integrating existing components
11,12	08-12-2017 (AN)	6. Inspecting SaaS technologies Deploying web applications, implementing web services: SOAP, REST, Choosing a development platform
13,14	08-12-2017 (AN) 09-12-2017 (FN)	7. Delivering Platform as a Service (PaaS) Exploring the technical foundation for PaaS, Specifying the components of PaaS, Analysing vendor PaaS provisions, selecting an appropriate

		implementation
15,16	09-12-2017 (FN)	8. Building services with solution stacks Evaluating the architecture of vendor-specific platforms, Becoming familiar with service platform tools
17,18	09-12-2017 (FN) 09-12-2017 (AN)	9. Managing cloud storage Controlling unstructured data in the cloud, Deploying relational databases in the cloud, improving data availability
19,20	09-12-2017 (AN)	10. Employing support services Testing in the cloud, Monitoring cloud-based services, Analysing portability across platforms
21,22	15-12-2017 (AN)	11. Deploying Infrastructure as a Service (IaaS) Enabling technologies-Scalable server clusters, Achieving transparency with platform virtualization, Elastic storage devices
23,24	15-12-2017 (AN) 16-12-2017 (FN)	12. Accessing IaaS Provisioning servers on demand, handling dynamic and static IP addresses, Tools and support for management and monitoring
25,26	16-12-2017 (FN)	13. Building a Business Case Calculating the financial implications-Comparing in-house facilities to the cloud, Estimating economic factors downstream
27,28	16-12-2017 (FN) 16-12-2017 (AN)	14. Preserving business continuity Selecting appropriate service-level agreements, safeguarding access to assets in the cloud, Security, availability and disaster recovery strategies
29,30	16-12-2017 (AN)	15. Migrating to the Cloud Technical considerations-Re-architecting applications for the cloud, integrating the cloud with existing applications, avoiding vendor lock-in, planning the migration and selecting a vendor


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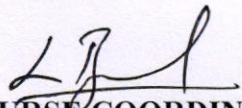
CERTIFICATE COURSE ON CLOUD APPLICATION DEVELOPMENT

Date of Introduction of the Course: 27.11.2017

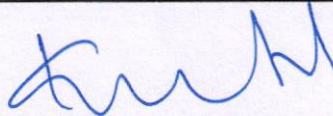
School of Computing Registered Students Name List

S.NO	REG.NO	NAME OF THE STUDENT
1	U14CS001	AADHITYA MALLIKA ARJUN
2	U14CS002	AAVULA DIXITH REDDY
3	U14CS003	ABDUL RAHIM.M
4	U14CS004	ABDUL RAZVI .M.K
5	U14CS005	ABDUR RASEED
6	U14CS006	ABHIKAMALI .A
7	U14CS007	ABHISHEK MANDURI
8	U14CS008	AJAY.D
9	U14CS009	AKASH CHANDRA AMBASTHA
10	U14CS010	AKHIL REDDY.G
11	U14CS011	AKSHAY.R
12	U14CS012	AMAR BASUMATARY
13	U14CS013	ANDREW JOSEPH.V
14	U14CS014	ANGELIN .R
15	U14CS015	ANKITA
16	U14CS016	ANNILKRISHNAN .K
17	U14CS017	ASHUTOSH SRIVASTAVA
18	U14CS019	ARAMBAKAM,YASWANTH
19	U14CS021	AREEF SYED
20	U14CS022	ARUN KUMAR SINGH
21	U14CS023	ASIF NAZIR WANI
22	U14CS024	ATUL ANAND
23	U14CS025	BACHU HARISH
24	U14CS026	BALA MURUGAN .P
25	U14CS027	BALAJI SINGH. T

26	U14CS028	BALAJI.S
27	U14CS029	BALAKRISHNAN.T
28	U14CS031	BISHAL BANIK
29	U14CS032	BODA VEERA VENKATA RAVI TEJA
30	U14CS033	BOORAGADDA VAMSI KRISHNA
31	U14CS034	BOYAPATI VINAY
32	U14CS035	BYSANI VENKAT SANDEEP
33	U14CS036	CHARAN.G
34	U14CS038	CHIDIRALA.SAI SHANKAR
35	U14CS039	CHINTAGUNTA MARUTHI VENKATESWARA REDDY
36	U14CS040	CHINTAPANTI SRIKANTH
37	U14CS041	CHINTLA VENKATESH
38	U14CS042	CHUDAAMANI.V
39	U14CS044	DARA DEEPTHI
40	U14CS045	DEEPAKSANKAR REDDY.M
41	U14CS046	DEVARAPALLI HIMAKAR
42	U14CS047	DEVULAPALLY NAGARAJU
43	U14CS048	DIVYA RUPINI.B
44	U14CS049	EVELIN JUGI.R
45	U14CS050	FAZIL AHAMED.J



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 Chennai-600 073. INDIA

COURSE FEEDBACK FORM

Academic Year		2017-2018							
Term		Add-on course							
Course Number		-							
Course Title		Cloud Application Development							
Number of Credits		-							
Type of Course	Regular	Elective			Add-on			<input checked="" type="checkbox"/>	
I. Information on the Respondent: (Tick (✓) Appropriately)									
1. Percentage of classes attended									
0-20		20-40		40-60		60-80	<input checked="" type="checkbox"/>	80-100	
2. Number of hours per week spent on the course (Other than lecture hours)									
0-2		2-4		4-6	<input checked="" type="checkbox"/>	6-8		8-10	
3. Preparation for the course by the student:									
(i)	Have done part of this course earlier								
(ii)	Has adequate prior exposure to the prerequisites								
(iii)	Had to pickup relevant additional topics through concurrent study <input checked="" type="checkbox"/>								
(iv)	Have no exposure to the background material								
4. The expectations for taking the course by the student are:									
(a)	Enhance by skill base in the area of specializations								
(b)	Get exposed to a relevant subject								
(c)	Curiosity								
(d)	Better Employment Opportunity <input checked="" type="checkbox"/>								
(e)	Complete Course requirements								
(f)	To Improve CGPA <input checked="" type="checkbox"/>								
About the Instructor: Information on the Respondent: (Tick (✓) Appropriately)									
		A	B	C	D	E			
1.	Pace of the Teaching/lecture		<input checked="" type="checkbox"/>						
2.	Comment of the Subject		<input checked="" type="checkbox"/>						
3.	Clarity of expression								
4.	Level of preparation	<input checked="" type="checkbox"/>							
5.	Level of interaction		<input checked="" type="checkbox"/>						
6.	Accessibility outside the class		<input checked="" type="checkbox"/>						
7.	Others (please specify)	Good.							
A: Excellent		B: Very Good		C: Good		D: Satisfactory		E: Poor	


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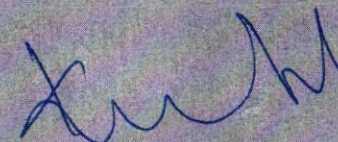
CERTIFICATE OF PARTICIPATION

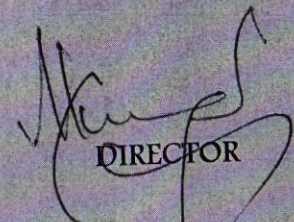
This certificate is presented to

AKHIL REDDY.G

For actively participating in the value added course "Cloud Application Development"
Conducted by School of Computing, BIHER from 01.12.2017 to 16.12.2017.


COURSE COORDINATORS


HEAD OF THE DEPARTMENT


DIRECTOR



Bharath

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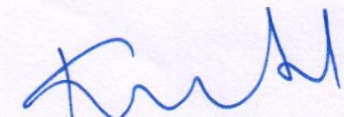
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CIRCULAR

27.11.2017

The School of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on **Embedded C** for the benefit of II, III and IV year students. This course is scheduled from 01.12.2017 for 30hours which includes theory and practical. The timings are 1:30 PM to 4:30 PM from Friday (AN) and Saturday (FN&AN).

All Registered Students must attend all the classes without fail. The following faculty members are assigned to handle the course. S.NO	Name of the Faculty	Designation
1	Dr. K.P. Kaliyamurthie	Professor
2	Dr. G.Micheal	Professor


Head of Department

To

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HEAD OF DEPARTMENT
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CERTIFICATE COURSE ON EMBEDDED C

Date of Introduction of the Course: 15.11.20217

COURSE OBJECTIVES

Dive into the world of development by learning c language concepts and implementing them in codes. Embedded C course provides a Step by step guide to c programming language for beginners to master in C. Fine tune your coding skills and ideas into applications by learning c in a systematic way and make a strong foundation for embedded systems and more advanced language.

WHAT TO EXPECT

Expertise The coding skills in C/Embedded C and learn the core concepts to get started as a developer.

- Develop programs in C/Embedded C in a structured approach
- Get complete idea of C/Embedded C from fundamentals
- Build applications using the core concepts
- Master your coding skills In a professional way
- Develop code debugging skills and solve the issues in your code
- Build the base for other programming languages and embedded programming
- Stand out in the development field and build a carrier in programming

COURSE SYLLABUS

1. Introduction

- C language overview
- Need for C
- Embedded C.
- C vs Embedded C

2. Environment Set up

- Text editor and compiler
- Code Blocks
- Discuss Compilers used for Embedded systems

3. Structure of C Program

- The C Pre-processor
- Global and local declaration
- Keywords & Identifier
- Variables & Constants

4. Storage classes and Data types

- Different Storage classes and their uses
- Different Data types and memory they use in GCC.
- Comparison of memory used by each data type in different compiler

5. Input s and outputs

- Input and Output Functions
- Escape sequence
- Format specifier

6. Operators

- Arithmetic Operators ,Post increment and Pre increment.
- Relational Operators and Assignment Operators
- Logical Operators and Bitwise Operators

7. Conditional Statements

- If
- If- Else
- Nested if Else
- Switch Case.

8. Loops

- For Loop
- While loop and Do-while Loop

9. Arrays and String

- Arrays
- String and String Functions

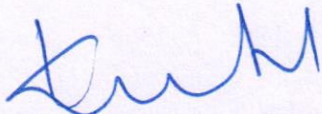
10. Functions

- What is a Function in C
- Passing Values between Functions
- Recursive Function and Stack memory

11. Pointers

- Pointer operations.
- Call by Value and Call by Reference
- Passing array to function using pointer.


COURSE COORDINATOR


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Department of Computer Sci & Engg.,
Bharath Institute of Higher Education & Research
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Chennai-600 073. INDIA



Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

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CERTIFICATE COURSE ON EMBEDDED C

Date of Introduction of the Course: 27.11.20217

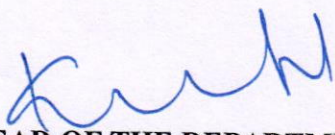
The timings are 1:30 PM to 4:30 PM from Friday (AN) and Saturday (FN&AN).

Time Table& Lesson plan

CLASS	DATE	TOPIC
1,2	01-12-2017(AN)	1. Introduction ➤ C language overview
3,4	01-12-2017 (AN) 02-12-2017(FN)	➤ Need for C ➤ Embedded C. ➤ C vs Embedded C
5,6	02-12-2017(FN)	2. Environment Set up ➤ Text editor and compiler
7,8	02-12-2017 (FN) 02-12-2017(AN)	➤ Code Blocks ➤ Discuss Compilers used for Embedded systems
9,10	02-12-2017 (AN)	3. Structure of C Program The C Pre-processor
11,12	08-12-2017 (AN)	➤ Global and local declaration ➤ Keywords & Identifier ➤ Variables & Constants
13,14	08-12-2017 (AN) 09-12-2017 (FN)	4. Storage classes and Data types ➤ Different Storage classes and their uses ➤ Different Data types and memory they use in GCC. ➤ Comparison of memory used by each data type in different compiler
15,16	09-12-2017 (FN)	5. Input s and outputs ➤ Input and Output Functions ➤ Escape sequence ➤ Format specifier
17,18	09-12-2017	6. Operators

	(FN) 09-12-2017 (AN)	<ul style="list-style-type: none"> ➤ Arithmetic Operators ,Post increment and Pre increment. ➤ Relational Operators and Assignment Operators
19,20	09-12-2017 (AN)	<ul style="list-style-type: none"> ➤ Logical Operators and Bitwise Operators
21,22	15-12-2017 (AN)	7. Conditional Statements <ul style="list-style-type: none"> ➤ If ➤ If- Else ➤ Nested if Else ➤ Switch Case.
23,24	15-12-2017 (AN) 16-12-2017 (FN)	8. Loops <ul style="list-style-type: none"> ➤ For Loop ➤ While loop and Do-while Loop
25,26	16-12-2017 (FN)	9. Arrays and String <ul style="list-style-type: none"> ➤ Arrays ➤ String and String Functions
27,28	16-12-2017 (FN) 16-12-2017 (AN)	10. Functions <ul style="list-style-type: none"> ➤ What is a Function in C ➤ Passing Values between Functions ➤ Recursive Function and Stack memory
29,30	16-12-2017 (AN)	11. Pointers <ul style="list-style-type: none"> ➤ Pointer operations. ➤ Call by Value and Call by Reference ➤ Passing array to function using pointer.


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CERTIFICATE COURSE ON EMBEDDED C


Date of Introduction of the Course: 27.11.2017

School of Computing Registered Students Name List

S.NO	REG.NO	NAME OF THE STUDENT
1	U16CS024	SRIMATHI S
2	U16CS025	SANTHOSHKUMAR S
3	U16CS026	AJAY KUMAR R
4	U16CS027	GARLAPATI RAGHURAM
5	U16CS028	PADILAM JAYANTH YADAV
6	U16CS029	MOHAMMED KHIZER HUSSAIN N
7	U16CS030	JEEVAMEDHA M
8	U16CS031	SYED HAFEEZ HUSSAIN
9	U16CS032	MUGESH P
10	U16CS033	POOJALAKSHMI N
11	U16CS034	GUNDU NIKITHA REDDY
12	U16CS035	RESHMA R
13	U16CS036	LAKSHMI NARAYANAN A
14	U16CS037	PALLE NAZEER VALI
15	U16CS038	GOLUSULA SAI KUMAR
16	U16CS039	PATTAN FEROZ KHAN
17	U16CS040	MOHAMMAD AHAMAD ALIKHAN
18	U16CS041	LAAVANYA G A
19	U16CS070	BANDIATMAKUR MADANMOHAN REDDY
20	U16CS071	MULINTY PRASHANTH REDDY
21	U16CS072	GAVIREDDY SIVAMOHAN REDDY
22	U16CS073	MASHETTY SOUMITH
23	U16CS074	KASANI AKHIL YADAV
24	U16CS075	BASA RAMANJI NAIDU
25	U16CS076	ARVIND S

26	U16CS077	A VINOOTHINA
27	U16CS078	AISHWARYA KUSHWAHA
28	U16CS079	VEGI BALAJI SATYA SAI GANESH
29	U16CS080	KALAHASTI MUNIJYOSHNA
30	U16CS081	KADIVETI AJAY REDDY
31	U16CS082	ADURI SHYAM SAI KUMAR
32	U16CS083	KOTHAKOTA SAI SIRISHA
33	U16CS084	BAIRISETTI VENTATESH
34	U16CS129	MANDIPALLI CHIDANANDA REDDY
35	U16CS130	NANDALLURI REDDYBASI REDDY
36	U16CS131	MAGULURI PAVAN
37	U16CS132	GAIKOTI MADHAVA RAO
38	U16CS188	DEBANJAN MANDAL
39	U16CS189	CHAUHAN MAYANK SUNILKUMAR
40	U16CS190	KONDAMURI KIRAN KUMAR
41	U16CS191	SHAIK AFRIDI
42	U16CS192	GANTLA VASU
43	U16CS193	MUNAGANURU SAI ANUDEEP
44	U16CS195	BOLLAM MANINDRA
45	U16CS196	RAMADUGU ANUSHA
46	U16CS112	INTURI RAGHU BABU
47	U16CS113	PALLE SUDHEER KUMAR REDDY
48	U16CS114	BANGARAPU MANOJ KUMAR REDDY
49	U16CS115	BHUMIRDDY MAHITHA
50	U16CS116	YELLAPUREDDY REPARENDAR REDDY


COURSE COORDINATOR


HOD(CSE)

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Certificate of Participation

This is presented to

Jeya Ganesh MD

For actively participating in the value added course "Embedded C Programming" Conducted by School of Computing, BIHER from 01.12.2017 to 16.12.2017.

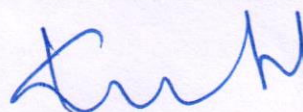
COURSE COORDINATORS

HEAD OF THE DEPARTMENT

DIRECTOR

COURSE FEEDBACK FORM

Academic Year		2017-18							
Term									
Course Number									
Course Title		Embedded C							
Number of Credits		—							
Type of Course	Regular		Elective		Add-on	✓			
I. Information on the Respondent: (Tick (✓) Appropriately)									
1. Percentage of classes attended									
0-20		20-40		40-60		60-80	✓	80-100	
2. Number of hours per week spent on the course (Other than lecture hours)									
0-2		2-4		4-6		6-8		8-10	✓
3. Preparation for the course by the student:									
(i)	Have done part of this course earlier								NO
(ii)	Has adequate prior exposure to the prerequisites								NO
(iii)	Had to pickup relevant additional topics through concurrent study								YES
(iv)	Have no exposure to the background material								NO
4. The expectations for taking the course by the student are:									
(a)	Enhance by skill base in the area of specializations								YES
(b)	Get exposed to a relevant subject								YES
(c)	Curiosity								YES
(d)	Better Employment Opportunity								YES
(e)	Complete Course requirements								YES
(f)	To Improve CGPA								YES
About the Instructor: Information on the Respondent: (Tick (✓) Appropriately)									
		A	B	C	D	E			
1.	Pace of the Teaching/lecture	✓							
2.	Comment of the Subject	✓							
3.	Clarity of expression	✓							
4.	Level of preparation		✓						
5.	Level of interaction	✓							
6.	Accessibility outside the class		✓						
7.	Others (please specify)	✓							
A: Excellent		B: Very Good		C: Good		D: Satisfactory		E: Poor	
✓									



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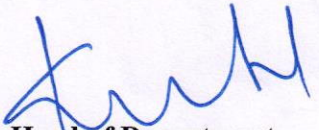
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CIRCULAR

14.12.2017

The School of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on **Python for Data Science and AI** for the benefit of II, III and IV year students. This course is scheduled from **18.12.2017** for 30 hours which includes theory and practical. The timings are 4:00 PM to 5:00 PM from Monday to Saturday.

All registered students must attend all the classes without fail. The following faculty members are assigned to handle the course. S.NO	Name of the Faculty	Designation
1	Mrs.C.Geetha	Assistant Professor
2	Mrs.Anuradha	Assistant Professor


Head of Department

To

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PYTHON FOR DATA SCIENCE AND AI

Date of Introduction of the Course: 18.12.2017

The timings are 4:00 PM to 5:00 PM from Monday to Saturday.

Time Table & Lesson plan

CLASS	DATE	TOPIC
1	18.12.2017	1.Introduction: Introduction to the data science- Process and value of data science
2	19.12.2017	Statistical Concepts
3	20.12.2017	Basic Techniques
4	21.12.2017	Machine Learning And Modeling
5	22.12.2017	2. Python Basics: Basics of Python
6	23.12.2017	Arrays, Strings
7	26.12.2017	Lists, Tuples
8	27.12.2017	Dictionary, Sets
9	28.12.2017	Range Control structures
10	29.12.2017	Scripts and Functions
11	30.12.2017	Graphs in python
12	02.01.2018	3. Jupyter: Jupyter notebooks opensource -data cleaning- data transformation
13	03.01.2018	Numerical simulation, statistical modelling
14	04.01.2018	Data visualization and machine learning
15	05.01.2018	4.Numpy: Numpy opensource, data manipulation,
16	06.01.2018	Data processing in arrays,
17	08.01.2018	numpy machine learning concepts and standard library
18	09.01.2018	5.Pandas: Introduction to Pandas, import data into spyder,
19	10.01.2018	Creating copy of original data, attributes of data, indexing and selecting data
20	11.01.2018	Pandas with data -csv, excel, sql or even a webpage
21	12.01.2018	6.Visualization: Data pre-processing and analysis, data exploration and visualization
22	18.01.2018	Parallel and distributed computing in case of bigdata

23	19.01.2018	7.Exploring Data Analysis: Frequency table, Two way table, two way table-joint probability
24	20.01.2018	Marginal probability and conditional probability
25	22.01.2018	8. Machine Learning: Basics of machine learning, Supervised and unsupervised algorithms
26	23.01.2018	K- mean clustering, sci-kit library for machine learning
27	24.01.2018	9.Working with Text and Databases: Sequence data methods, sequence data operations
28	25.01.2018	Natural Language Processing and how to apply those ideas using the Natural Language Processing Toolkit (NLTK) library
29	27.01.2018	10.Final Project: Project Title: Driver drowsiness detection- Data analysis, collect dataset
30	29.01.2018	Data munging, visualize the data, draw conclusions, and present the results

COURSE COORDINATOR

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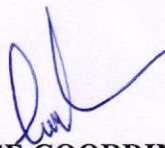
COURSE OBJECTIVES

In this course we plan to give students an overview of the field of Python with Data Science, AI and in-depth study into its enabling technologies and main building blocks. Students will gain hands-on experience in solving relevant problems through projects that will utilize existing Python tools. It is our objective that students will develop the skills needed to become a practitioner or carry out research projects in this domain.

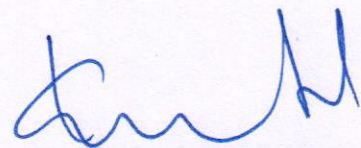
Specifically, the course has the following objectives:

Students will learn

- 1) Basic process of data science
- 2) Python and Jupyter notebooks
- 3) An applied understanding of how to manipulate and analyse inaccurate datasets
- 4) Basic statistical analysis and machine learning methods
- 5) How to effectively visualize results



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PYTHON FOR DATA SCIENCE AND AI

Date of Introduction of the Course: 18.12.2017

COURSE SYLLABUS

1. Introduction:

Introduction to the data science- Process and value of data science-statistical concepts- basic techniques-machine learning and modeling.

2. Python Basics:

Basics of Python, Arrays, Strings, Lists, Tuples, Dictionary, Sets, Range Control structures, Scripts and Functions, Graphs in python.

3. Jupyter:

Jupyter notebooks opensource -data cleaning- data transformation, numerical simulation, statistical modelling, data visualization and machine learning.

4. Numpy:

Numpy opensource, data manipulation, data processing in arrays, numpy machine learning concepts and standard library.

5. Pandas:

Introduction to Pandas, import data into spyder, creating copy of original data, attributes of data, indexing and selecting data, pandas with data -csv, excel, sql or even a webpage.

6. Visualization:

Data pre-processing and analysis, data exploration and visualization, parallel and distributed computing in case of bigdata.

7. Exploring Data Analysis:

Frequency table, Two way table, two way table- joint probability, marginal probability and conditional probability.

8. Machine Learning:

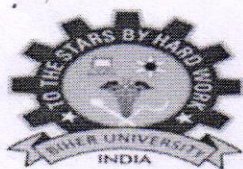
Basics of machine learning, Supervised and unsupervised algorithms, K- mean clustering, sci-kit library for machine learning.

9. Working with Text and Databases:

Sequence data methods, sequence data operations, Natural Language Processing and how to apply those ideas using the Natural Language Processing Toolkit (NLTK) library.

10. Final Project:

Project Title: Driver drowsiness detection- Data analysis, collect dataset, data munging, visualize the data, draw conclusions, and present the results.



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PYHTON FOR DATA SCIENCE AND AI

Date of Introduction of the Course: 18.12.2017


School of Computing

Registered Students Name List

S.NO	REG NO	NAME
1	U14CS005	ABDUR RASEED
2	U14CS007	ABHISHEK MANDURI
3	U14CS010	AKHIL REDDY.G
4	U14CS012	AMAR BASUMATARY
5	U14CS013	ANDREW JOSEPH.V
6	U14CS014	ANGELIN .R
7	U14CS015	ANKITA
8	U14CS016	ANNILKRISHNAN .K
9	U14CS036	CHARAN.G
10	U14CS057	GOVIND KUMAR
11	U14CS059	HARISH.V
12	U14CS066	KARAN KUMAR CHETTRI
13	U14CS078	KODALI AKHIL
14	U14CS084	LAKKAMPALLY SHIVA KUMAR
15	U14CS085	LAKSHMI PRIYA.A
16	U14CS086	LOKESHWARAN.A.
17	U14CS092	MANDELA SAIKIRAN
18	U14CS094	MANISH SHARMA
19	U14CS099	MEKA VIVEK REDDY
20	U14CS110	NAGA TEJA.K
21	U14CS114	NANDALA SWETHA
22	U14CS124	PARVATHA NIRANJAN REDDY
23	U14CS126	PAYAL SINGH
24	U14CS130	POOJA KUMARI
25	U14CS131	PRAGYA ADITI
26	U14CS136	RAHUL GOUD.P
27	U14CS142	RAJA S.V
28	U14CS180	SABUJ BARMAN
29	U14CS186	SURIYA.A.
30	U14CS193	THEJA.T
31	U15CS001	ABHIJEET KUMAR
32	U15CS002	ABHIJIT KUMAR GUPTA
33	U15CS003	ABHISHEK KUMAR SINGH
34	U15CS006	ANBUMANI S

35	U15CS007	ANJAR ALI
36	U15CS015	ARYAN SAHU
37	U15CS022	BHARATH K
38	U15CS027	BODA AKHIL WESLEY
39	U15CS028	BONALA SRIDHAR RAO
40	U15CS044	DIVYA VANI T
41	U15CS053	GLADSON J
42	U15CS072	JOTHI R
43	U15CS068	JAICHAND KUMAR
44	U15CS069	JANAKI RAMAN V
45	U15CS083	KANDI MOUNIKA
46	U15CS084	KANDUKURI JESHWANTH
47	U15CS085	KANDULA SRINATH
48	U15CS095	KONATALA PUSHPA
49	U15CS105	LALJEE
50	U15CS109	M UTTEJ
51	U15CS123	MOHAMMAD ASLAM SHAREEF
52	U15CS126	MOORABOINA NARESH
53	U15CS133	NALLURI AKHIL BABU
54	U15CS134	NAMBURI VIJAY KUMAR
55	U15CS135	NARENDULA NIREESHA
56	U16CS003	NALAMOTHU SRIKANTH
57	U16CS004	ABDUL KHADIR L
58	U16CS015	B J JAISON
59	U16CS016	SARAVANAKUMAR S
60	U16CS032	MUGESH P
61	U16CS094	GUGULOTH ANVESHA
62	U16CS102	RAHUL P
63	U16CS115	BHUMIRDDY MAHITHA
64	U16CS117	S YUGANDHAR
65	U16CS118	CHOKKAM NAGARAJU
66	U16CS134	HEMA S
67	U16CS156	RIK ROY
68	U16CS171	GOGA VAMSI


COURSE COORDINATOR


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CERTIFICATE OF PARTICIPATION

This certificate is presented to

POOJA KUMARI

For actively participating in the value added course "Python for Data Science and AI"
Conducted by School of Computing, BIHER from 18.12.2017 to 29.01.2018.

COURSE COORDINATORS

HEAD OF THE DEPARTMENT

DIRECTOR

COURSE FEEDBACK FORM

Academic Year		2017				
Term		DDD SEM				
Course Number						
Course Title		Python for Data Science & AI				
Number of Credits						
Type of Course	Regular		Elective		Add-on	<input checked="" type="checkbox"/>

I. Information on the Respondent: (Tick (✓) Appropriately)

1.	Percentage of classes attended									
	0-20		20-40		40-60		60-80		80-100	<input checked="" type="checkbox"/>

2.	Number of hours per week spent on the course (Other than lecture hours)									
	0-2		2-4		4-6		6-8		8-10	<input checked="" type="checkbox"/>

3.	Preparation for the course by the student:									
	(i)	Have done part of this course earlier								<input checked="" type="checkbox"/>
	(ii)	Has adequate prior exposure to the prerequisites								<input checked="" type="checkbox"/>
	(iii)	Had to pickup relevant additional topics through concurrent study								<input checked="" type="checkbox"/>
	(iv)	Have no exposure to the background material								<input checked="" type="checkbox"/>

4.	The expectations for taking the course by the student are:									
	(a)	Enhance by skill base in the area of specializations								<input checked="" type="checkbox"/>
	(b)	Get exposed to a relevant subject								<input checked="" type="checkbox"/>
	(c)	Curiosity								<input checked="" type="checkbox"/>
	(d)	Better Employment Opportunity								<input checked="" type="checkbox"/>
	(e)	Complete Course requirements								<input checked="" type="checkbox"/>
	(f)	To Improve CGPA								<input type="checkbox"/>

About the Instructor: Information on the Respondent: (Tick (✓) Appropriately)

		A	B	C	D	E
1.	Pace of the Teaching/lecture		<input checked="" type="checkbox"/>			
2.	Comment of the Subject		<input checked="" type="checkbox"/>			
3.	Clarity of expression		<input checked="" type="checkbox"/>			
4.	Level of preparation		<input checked="" type="checkbox"/>			
5.	Level of interaction		<input checked="" type="checkbox"/>			
6.	Accessibility outside the class			<input checked="" type="checkbox"/>		
7.	Others (please specify)					

A: Excellent		B: Very Good		C: Good		D: Satisfactory		E: Poor
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COURSE FEEDBACK FORM

Academic Year		2017			
Term		ODD Sem			
Course Number					
Course Title					
Number of Credits		PYTHON FOR DATA SCIENCE & AI			
Type of Course	Regular		Elective		Add-on <input checked="" type="checkbox"/>

I. Information on the Respondent: (Tick (√) Appropriately)

1.	Percentage of classes attended									
	0-20		20-40		40-60		60-80		80-100	<input checked="" type="checkbox"/>

2.	Number of hours per week spent on the course (Other than lecture hours)									
	0-2		2-4		4-6		6-8		8-10	<input checked="" type="checkbox"/>

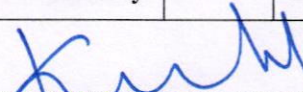
3.	Preparation for the course by the student:									
	(i)	Have done part of this course earlier								<input checked="" type="checkbox"/>
	(ii)	Has adequate prior exposure to the prerequisites								<input checked="" type="checkbox"/>
	(iii)	Had to pickup relevant additional topics through concurrent study								<input checked="" type="checkbox"/>
	(iv)	Have no exposure to the background material								<input checked="" type="checkbox"/>

4.	The expectations for taking the course by the student are:									
	(a)	Enhance by skill base in the area of specializations								<input checked="" type="checkbox"/>
	(b)	Get exposed to a relevant subject								<input checked="" type="checkbox"/>
	(c)	Curiosity								<input checked="" type="checkbox"/>
	(d)	Better Employment Opportunity								<input checked="" type="checkbox"/>
	(e)	Complete Course requirements								<input checked="" type="checkbox"/>
	(f)	To Improve CGPA								<input checked="" type="checkbox"/>

About the Instructor: Information on the Respondent: (Tick (√) Appropriately)

		A	B	C	D	E
1.	Pace of the Teaching/lecture	<input checked="" type="checkbox"/>				
2.	Comment of the Subject	<input checked="" type="checkbox"/>				
3.	Clarity of expression		<input checked="" type="checkbox"/>			
4.	Level of preparation		<input checked="" type="checkbox"/>			
5.	Level of interaction			<input checked="" type="checkbox"/>		
6.	Accessibility outside the class			<input checked="" type="checkbox"/>		
7.	Others (please specify)					

A: Excellent		B: Very Good		C: Good		D: Satisfactory		E: Poor	
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 Department of Computer Science & Engg.,
 Bharath Institute of Higher Education & Research
(Declared as Deemed to be University U/S 3 of UGC Act, 1956)
 Chennai-600 073, INDIA



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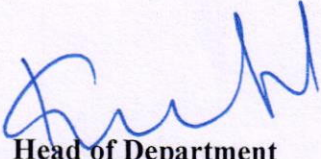
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CIRCULAR

27.10.2017

The School of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on **IBM Z/OS MAINFRAME PRACTITIONER PROFESSIONAL** for the benefit of II, III and IV year students. This course is scheduled from 01.11.2017 for 30 hours which includes theory and practical. The timings are 4:00 PM to 5:00 PM from Monday to Friday

All Registered Students must attend all the classes without fail. The following faculty members are assigned to handle the course. S.NO	Name of the Faculty	Designation
1	Mrs.R.Velvizhi	Professor
2	Dr.G.Michael	Professor



Head of Department

To

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Department of Computer Science & Engg.,
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CERTIFICATE COURSE ON IBM Z/OS MAINFRAME PRACTITIONER PROFESSIONAL

Date of Introduction of the Course: 1.11.2017

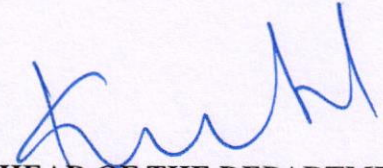
The timings are

Time Table & Lesson plan

CLASS	DATE	TOPIC
1,2	1.11.2017, 2.11.2017	1. Introduction to Enterprise Computing Large Scale Enterprise Computing powers all major transactions-Mainframes are fundamental on how we do business-introduction to the hardware- operating systems,-security, and features
3,4	3.11.2017, 6.11.2017	2.Functions of Operating System Different architectural families- enhancements for each architecture family- functions of an operating system- concept of a Sysplex and describe methods available for z/OS security
5,6	7.11.2017, 8.11.2017	3. Introduction to IBM Mainframe Getting Started with the IBM Mainframe with z/OS Commands and Panels – IBM Mainframe z/OS Environment
7,8	9.11.2017, 10.11.2017	4.IBM Mainframe with z/OS Commands and Panels labs will provide live access to an IBM Z server-fundamental practical skills to navigate and work in a z/OS environment-use of ISPF/PDF dialogs, and TSO/E commands.
9,10	13.11.2017, 14.11.2017	5. z/OS Mainframe Practitioner foundational skills in IBM Z hardware and software, especially around z/OS and System Administration-mainframe application developer, system programmer, system administrator, or a DBA Practitioner
11,12	15.11.2017, 16.11.2017	6. basic-system-programming-on-ibm-z z/OS tasks with JCL, JES, ISHELL and HFS, and z/OSMF-VSAM, z/OS System Libraries- the Language Environment- Generation Data Groups- RAIM-DB2-UNIX System Services- and USS File System

13,14	17.11.2017, 20.11.2017	7. IBM System z/OS tasks with JCL, JES, ISHELL and HFS, and z/OSMF-submit and view JCL output
15,16	21.11.2017, 22.11.2017	8. Basic System Programming on IBM Z Language Environment, Generation Data Groups, RAIM, DB2, UNIX System Services
17,18	23.11.2017, 24.11.2017	9. Introduction to JES and JCL System programming-JES-JCL-JCL Procedure-JCL tidbits
19,20	27.11.2017, 28.11.2017	10. IBM z/OS System Programmer and System Administrator application services provided in UNIX-use of applications such as CICS, IMS, and DB2 on z/OS
21,22	29.11.2017, 30.11.2017	11. System Programming Components Vsam-z/OS Components-z/OS System Libraries-Application Infrastructure-Language Environment-Generation data groups-RAIM-Networking-Utilities
23,24,25	1.12.2017, 4.12.2017, 5.12.2017	12. Practical Session
26,27	6.12.2017, 7.12.2017,	13. z/OSMF and UNIX System Services <u>Introduction to z/OSMF-UNIX System Services- USS File System- ISHELL and hierarchical file system – USS processes and permissions</u>
28,29,30	8.12.2017, 11.12.2017, 12.12.2017	14. Practical session

R. Velupillai
COURSE COORDINATOR


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CERTIFICATE COURSE ON IBM Z/OS MAINFRAME PRACTITIONER PROFESSIONAL

Date of Introduction of the Course: 1.11.2017

COURSE SYLLABUS

1. Introduction to Enterprise Computing

Large Scale Enterprise Computing powers all major transactions-Mainframes are fundamental on how we do business-introduction to the hardware- operating systems,- security, and features

2.Functions of Operating System

Different architectural families- enhancements for each architecture family- functions of an operating system- concept of a Sysplex and describe methods available for z/OS security.

3. Introduction to IBM Mainframe

Getting Started with the IBM Mainframe with z/OS Commands and Panels – IBM Mainframe z/OS Environment

4.IBM Mainframe with z/OS Commands and Panels

labs will provide live access to an IBM Z server-fundamental practical skills to navigate and work in a z/OS environment-use of ISPF/PDF dialogs, and TSO/E commands.

5. z/OS Mainframe Practitioner

foundational skills in IBM Z hardware and software, especially around z/OS and System Administration-mainframe application developer, system programmer, system administrator, or a DBA Practitioner.

6. basic-system-programming-on-ibm-z

z/OS tasks with JCL, JES, ISHELL and HFS, and z/OSMF-VSAM, z/OS System Libraries-the Language Environment- Generation Data Groups- RAIM-DB2-UNIX System Services- and USS File System.

7. IBM System

z/OS tasks with JCL, JES, ISHELL and HFS, and z/OSMF-submit and view JCL output

8.Basic System Programming on IBM Z

Language Environment, Generation Data Groups, RAIM, DB2, UNIX System Services

9.. Introduction to JES and JCL

System programming-JES-JCL-JCL Procedure-JCL tidbits

10. IBM z/OS System Programmer and System Administrator

application services provided in UNIX-use of applications such as CICS, IMS, and DB2 on z/OS

11. System Programming Components

Vsam-z/OS Components-z/OS System Libraries-Application Infrastructure-Language Environment-Generation data groups-RAIM-Networking-Utilities

12. z/OSMF and UNIX System Services

Introduction to z/OSMF-UNIX System Services-USS File System- ISHELL and hierarchical file system – USS processes and permissions

COURSE OBJECTIVES

In this course we plan to give students an overview of the field IBM and an in-depth study into its enabling technologies and main building blocks. Students will gain hands-on experience solving relevant problems through projects that will utilize existing an wide range of technology and consulting services; a broad portfolio of middleware for collaboration, predictive analytics, software development and systems management; and the world's most advanced servers and supercomputers. Utilizing its business consulting, technology and R&D expertise, IBM helps clients become "smarter" as the planet becomes more digitally interconnected. It is our objective that students will develop the skills needed to become a practitioner or carry out research projects in this domain.

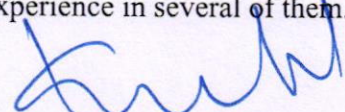
Specifically, the course has the following objectives:

Students will learn

- 1) The fundamental ideas behind **Enterprise Computing**, its applicability; Benefits, as well as current and future challenges;
- 2) The basic ideas and principles in Computer Architecture, Mainframe Architecture, Virtualization;
Software deployment considerations;
- 3) Mainframe Infrastructure, IBM Z Hardware Components, HMC and SE, Sysplex
- 4) IBM Input/Output Configuration Program User's Guide for ICP IOCP, z/OS Security
- 5) The variety of programming models and develop working experience in several of them.

R. Veluigchi

COURSE COORDINATOR



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CERTIFICATE COURSE ON IBM/OS MAINFRAME PRACTITIONER
Date of Introduction of the Course: 01.11.20217

School of Computing
Registered Students Name List

S.NO	REG.NO	NAME OF THE STUDENT
1	U16CS001	SANTOSH B
2	U16CS002	APARNA V M
3	U16CS003	NALAMOTHU SRIKANTH
4	U16CS004	ABDUL KHADIR L
5	U16CS006	SARAVANAN R
6	U16CS059	SRAVANI GADIPARTHI
7	U16CS060	PARUCHURU JYOTHI SATYA SIVA NAGA SWAROOP
8	U16CS061	NAGIREDDY GARI SANJUNATH REDDY
9	U16CS062	NALLAMOTHU TARUN KUMAR
10	U16CS063	GANNAMANI PRAVEEN
11	U16CS131	MAGULURI PAVAN
12	U16CS132	GAIKOTI MADHAVA RAO
13	U16CS133	NAVULURI RAJENDRA MOHAN
14	U16CS134	HEMA S
15	U16CS135	HARI S
16	U16CS191	SHAIK AFRIDI
17	U16CS192	GANTLA VASU
18	U16CS193	MUNAGANURU SAI ANUDEEP
19	U16CS194	GADDAM AMARA HARSHAVARDHAN REDDY
20	U16CS195	BOLLAM MANINDRA
21	U15CS001	ABHIJEET KUMAR
22	U15CS002	ABHIJIT KUMAR GUPTA
23	U15CS003	ABHISHEK KUMAR SINGH
24	U15CS004	ALLU SAI SIVA PRIYANKA NAIDU
25	U15CS005	AMBIKE KUMAR SINGH
26	U15CS064	INJE RAVI TEJA
27	U15CS065	INNURU SWATHI
28	U15CS066	JAGADEESH K
29	U15CS067	JAGADEESWARA RAO JADDU

30	U15CS068	JAICHAND KUMAR
31	U15CS069	JANAKI RAMAN V
32	U15CS156	PERURI V S V KRISHNA MOHAN
33	U15CS157	POORVISHA M
34	U15CS159	PRADEEP YADAV
35	U15CS160	PRASAD ABHISHEK KUMAR
36	U15CS161	PRASHANT PATHAK
37	U15CS212	UTTAM KUMAR
38	U15CS213	VADLAMUDI HARISH KUMAR
39	U15CS214	VEERELLA RUPAS CHOWDARY
40	U15CS215	VEESA SUDDEP
41	U15CS216	VEMSETTY ARUN SAHADEV
42	U14CS051	GANESH RAJ .L
43	U14CS052	GARLAPATI HEMA SAI KRISHNA
44	U14CS053	GODJSELA SRINATH
45	U14CS054	GONTLA KARTHIK
46	U14CS055	GOTTIPATI KARTHIK
47	U14CS101	MOHAMMAD AADIL SHANHREYAR.
48	U14CS102	MOHAMMED AABID
49	U14CS104	MOLUGURI PRADEEP CHANDRA
50	U14CS105	MOOTHI LAKSHMI PRASANNA
51	U14CS106	MUGANTH.R.
52	U14CS161	SANJAY KUMAR YADAV
53	U14CS162	SANTHOSH KUMAR.N
54	U14CS163	SASHAANK.S
55	U14CS164	SAURAV KUMAR
56	U14CS501	ARUN
57	U14CS504	SARAVANAN.B
58	U14CS506	I.SUKAPATLA AVINASH

R. Velupillai
COURSE COORDINATOR

[Signature]
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CERTIFICATE OF PARTICIPATION

This certificate is presented to

APARNA V M

For actively participating in the value added course "IBM/OS MAINFRAME PRACTITIONER"
Conducted by School of Computing, BIHER from 01.11.2017 to 12.12.2017.

R. Velu Singh

COURSE COORDINATORS

[Signature]

HEAD OF THE DEPARTMENT

[Signature]

DIRECTOR

COURSE FEEDBACK FORM

Academic Year		2017 - 2018					
Term		ODD SEM					
Course Number							
Course Title		IBM Z/OS MAINFRAME PRACTITIONER PROFESSIONAL					
Number of Credits							
Type of Course	Regular		Elective		Add-on	✓	
I. Information on the Respondent: (Tick (✓) Appropriately)							
1. Percentage of classes attended							
0-20		20-40		40-60		60-80	✓
						80-100	
2. Number of hours per week spent on the course (Other than lecture hours)							
0-2		2-4		4-6		6-8	
						8-10	✓
3. Preparation for the course by the student:							
(i)	Have done part of this course earlier						YES
(ii)	Has adequate prior exposure to the prerequisites						YES
(iii)	Had to pickup relevant additional topics through concurrent study						YES
(iv)	Have no exposure to the background material						YES
4. The expectations for taking the course by the student are:							
(a)	Enhance by skill base in the area of specializations						YES
(b)	Get exposed to a relevant subject						YES
(c)	Curiosity						YES
(d)	Better Employment Opportunity						YES
(e)	Complete Course requirements						YES
(f)	To Improve CGPA						YES
About the Instructor: Information on the Respondent: (Tick (✓) Appropriately)							
		A	B	C	D	E	
1.	Pace of the Teaching/lecture		✓				
2.	Comment of the Subject			✓			
3.	Clarity of expression		✓				
4.	Level of preparation		✓				
5.	Level of interaction		✓				
6.	Accessibility outside the class			✓			
7.	Others (please specify)						
A: Excellent		B: Very Good		C: Good	D: Satisfactory	E: Poor	


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COURSE FEEDBACK FORM

Academic Year		2017-2018			
Term		Odd Sem			
Course Number					
Course Title		IBM Z/OS MAINFRAME PRACTITIONER PROFESSIONAL			
Number of Credits					
Type of Course	Regular		Elective		Add-on <input checked="" type="checkbox"/>

I. Information on the Respondent: (Tick (✓) Appropriately)

1. Percentage of classes attended									
0-20	<input type="checkbox"/>	20-40	<input type="checkbox"/>	40-60	<input type="checkbox"/>	60-80	<input checked="" type="checkbox"/>	80-100	<input type="checkbox"/>

2. Number of hours per week spent on the course (Other than lecture hours)									
0-2	<input type="checkbox"/>	2-4	<input type="checkbox"/>	4-6	<input type="checkbox"/>	6-8	<input type="checkbox"/>	8-10	<input checked="" type="checkbox"/>

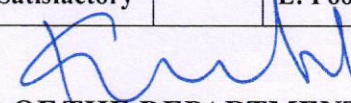
3. Preparation for the course by the student:		
(i)	Have done part of this course earlier	<input checked="" type="checkbox"/>
(ii)	Has adequate prior exposure to the prerequisites	<input checked="" type="checkbox"/>
(iii)	Had to pickup relevant additional topics through concurrent study	<input checked="" type="checkbox"/>
(iv)	Have no exposure to the background material	<input checked="" type="checkbox"/>

4. The expectations for taking the course by the student are:		
(a)	Enhance by skill base in the area of specializations	Yes
(b)	Get exposed to a relevant subject	Yes
(c)	Curiosity	Yes
(d)	Better Employment Opportunity	Yes
(e)	Complete Course requirements	Yes
(f)	To Improve CGPA	Yes

About the Instructor: Information on the Respondent: (Tick (✓) Appropriately)

		A	B	C	D	E
1.	Pace of the Teaching/lecture	<input checked="" type="checkbox"/>				
2.	Comment of the Subject		<input checked="" type="checkbox"/>			
3.	Clarity of expression	<input checked="" type="checkbox"/>				
4.	Level of preparation	<input checked="" type="checkbox"/>				
5.	Level of interaction	<input checked="" type="checkbox"/>				
6.	Accessibility outside the class		<input checked="" type="checkbox"/>			
7.	Others (please specify)					

A: Excellent	B: Very Good	C: Good	D: Satisfactory	E: Poor
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CIRCULAR

18.12.2017

The School of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on Object-Oriented Design and Programming in LabVIEW for the benefit of II, III and IV year students. This course is scheduled from 22.12.2017 for 30hours which includes theory and practical. The timings are 1:30 PM to 4:30 PM from Friday (AN) and Saturday (FN&AN).

All Registered Students must attend all the classes without fail. The following faculty members are assigned to handle the course. S.NO	Name of the Faculty	Designation
1	Dr.K.P.Kaliyamurthie	Professor
2	Dr.C.Nalini	Professor

Head of Department

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CERTIFICATE COURSE ON OBJECT ORIENTED DESIGN AND PROGRAMMING IN LABVIEW

Date of Introduction of the Course: 18.12.20217

COURSE OBJECTIVES

The Object-Oriented Design and Programming in LabVIEW Course covers the fundamental concepts of object-oriented design and programming and then demonstrates how those concepts are implemented in LabVIEW. Object-oriented design (OOD) encourages cleaner interfaces between sections of code and results in code that is easier to debug and scales better for large programming teams. Object-oriented programming is the development of code in a language that enforces object-oriented design principles.

After learning, Students can able to

1. Determine the appropriateness of using an object-oriented approach to develop an application
2. Design an application using object-oriented design principles
3. Implement a basic class hierarchy using LabVIEW classes
4. Use LabVIEW features that provide additional functionality to LabVIEW classes
5. Implement an application using common object-oriented design patterns
6. Modify an existing LabVIEW application to replace common patterns with LabVIEW objects

COURSE SYLLABUS

- 1. Introduction to OOPs concept**
 - Class
 - Object
 - OOD
 - Object-oriented programming
- 2. Introduction to Object-Oriented Application**
 - OOD Application
 - Differentiating classes
 - Identifying classes and methods
- 3. Designing an Object-oriented Application**
 - Class relationships
 - Common design mistakes
- 4. Environment setup**
 - Introduction to object-oriented programming in g
 - LabVIEW classes

5. Object-Oriented Concepts in LabVIEW

- Encapsulation
- Inheritance

6. Object-Oriented Programming in LabVIEW

- Dynamic Dispatch
- Tools
- Common use cases

7. Object-Oriented Tools

- Object references and construction guarantees
- Front Panel displays for object data

8. Object-Oriented Design Patterns

- Design Patterns: Introduction
- Channeling pattern
- Aggregation pattern
- Factory pattern
- Design patterns: Conclusion

9. Reviewing an Object-Oriented Application

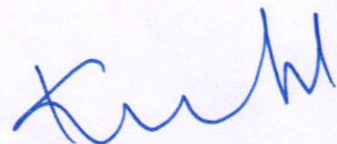
- Code review
- Migrating to LabVIEW classes

10. Designing of Deployment

- Deployment
- Additional resources



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CERTIFICATE COURSE ON OBJECT ORIENTED DESIGN AND PROGRAMMING IN LABVIEW

Date of Introduction of the Course: 18.12.2017

The timings are 1:30 PM to 4:30 PM from Friday (AN) and Saturday (FN&AN).

Time Table& Lesson plan

CLASS	DATE	TOPIC
1,2	22-12-2017 (AN)	Introduction to OOPs concept <ul style="list-style-type: none"> • Class • Object
3,4	22-12-2017 (AN) 23-12-2017 (FN)	<ul style="list-style-type: none"> • OOD • Object-oriented programming
5,6	23-12-2017 (FN)	Introduction to Object-Oriented Application <ul style="list-style-type: none"> • OOD Application • Differentiating classes
7,8	23-12-2017 (FN) 23-12-2017 (AN)	<ul style="list-style-type: none"> • Identifying classes and methods
9,10	23-12-2017 (AN)	Designing an Object-oriented Application <ul style="list-style-type: none"> • Class relationships • Common design mistakes
11,12	29-12-2017 (AN)	Environment setup <ul style="list-style-type: none"> • Introduction to object-oriented programming in g
13,14	29-12-2017 (AN) 30-12-2017 (FN)	<ul style="list-style-type: none"> • LabVIEW classes
15,16	30-12-2017 (FN)	Object-Oriented Concepts in LabVIEW <ul style="list-style-type: none"> • Encapsulation • Inheritance
17,18	30-12-2017 (FN) 30-12-2017 (AN)	Object-Oriented Programming in LabVIEW <ul style="list-style-type: none"> • Dynamic Dispatch • Tools
19,20	30-12-2017 (AN)	<ul style="list-style-type: none"> • Common use cases
21,22	05-01-2018 (AN)	Object-Oriented Tools <ul style="list-style-type: none"> • Object references and construction guarantees • Front Panel displays for object data
23,24	05-01-2018 (AN) 06-01-2018 (FN)	Object-Oriented Design Patterns <ul style="list-style-type: none"> • Design Patterns: Introduction • Channeling pattern
25,26	06-01-2018 (FN)	<ul style="list-style-type: none"> • Aggregation pattern

		<ul style="list-style-type: none"> • Factory pattern
27,28	06-01-2018 (FN) 06-01-2018 (AN)	Reviewing an Object-Oriented Application <ul style="list-style-type: none"> • Code review • Migrating to LabVIEW classes
29,30	06-01-2018 (AN)	Designing of Deployment <ul style="list-style-type: none"> • Deployment • Additional resources

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School of Computing

Certificate course on Object Oriented Design and Programming in Labview

Date of Introduction of the Course: 27.11.2017

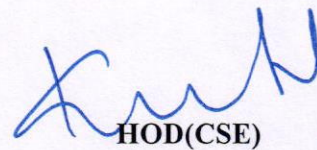
Registered Students Name List

S.NO	REG.NO	NAME OF THE STUDENT
1	U13CS001	ABIGNA T S
2	U13CS002	ACHINTAYA SAHA
3	U13CS010	AVINISH KUMAR ANAND
4	U13CS011	AVINISH KUMAR PANDEY
5	U13CS018	DEEPONASI
6	U13CS019	DIVYA M J
7	U13CS023	KAILASH RAY
8	U13CS025	KOKILA
9	U13CS031	MAVILLAPALLI POTHRE
10	U13CS035	MOHAMEDSALMANKHAN N
11	U13CS036	NITESH M
12	U13CS041	PIYUSH KUMAR SONI
13	U13CS042	PON VIVEK NAGARAJAN
14	U13CS043	PRANAV KUMAR
15	U13CS045	RANDHIR KUMAR
16	U13CS046	RAVI SHANKAR S
17	U13CS049	RITESH RAJ
18	U13CS050	SANJAY KUMAR MANDAL
19	U13CS057	SNEHIL NAIR
20	U13CS070	S.BHARATH
21	U13CS063	K.VIJAYAN
22	U13CS068	DIKSHA RANI
23	U13CS055	SIMPEE KUMARI
24	U13CS075	DIPIKA KUMARI
25	U13CS053	SHAMBHU KUMAR
26	U13CS059	SUSHMIGATHRI.S.D
27	U13CS052	SAURAV KUMAR
28	U13CS061	TOAIB ALAM
29	U13CS063	K.VIJAYAN
30	U13CS065	ANKIT KUMAR
31	U13CS072	M.B.JEYAGANESH
32	U13CS071	GURPREET SINGH
33	U14CS003	ABDUL RAHIM.M
34	U14CS011	AKSHAY.R
35	U14CS013	ANDREW JOSEPH.V

36	U14CS017	ASHUTOSH SRIVASTAVA
37	U14CS033	BOORAGADDA VAMSI KRISHNA
38	U14CS040	CHINTAPANTI SRIKANTH
39	U14CS074	KESHAVAPRIYA .S
40	U14CS075	KEVIN ARNOLD THAKUR
41	U14CS076	KILARI LAXMI SUDHA
42	U14CS113	NALLAJARLA CHAKRADHAR
43	U14CS116	NAYANA.P. BALA CHANDRAN
44	U14CS118	NETHI MUKESH
45	U14CS153	RONU SHARMA
46	U14CS158	SAMPA PARH
47	U14CS170	SHANKAR KUMAR GUPTA
48	U14CS178	SK MD TAUQEER
49	U14CS182	SRI DHARSHINI .P
50	U14CS192	THARIGOPULA LOKESH
51	U14CS199	VAMMARVALLI RAJA
52	U14CS201	VASI KARTHIK
53	U14CS210	YELLALA SANTHOSH REDDY
54	U15CS026	BIRADAVOLU SUCHARITHA
55	U15CS045	DODDI PUJITHA
56	U15CS052	GANGU BHAGYA
57	U15CS72	JOTHI R
58	U15CS118	MANUGUNTA BHARGAVI
59	U15CS149	P.KHAJA KHAN
60	U15CS166	PULIMUNI HIMAJA
61	U15CS184	S. SAI SHRUTHI
62	U15CS228	YADIKI VEMANA BUJJI
63	U15CS248	SOMESH.C



COURSE COORDINATOR



HOD(CSE)

HEAD OF DEPARTMENT
 Department of Computer Science & Engg.,
 Bharath Institute of Higher Education & Research
 (Declared as Deemed to be University U/S 3 of UGC Act, 1956)
 Chennai-600 073, INDIA



Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

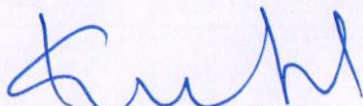
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CERTIFICATE OF PARTICIPATION

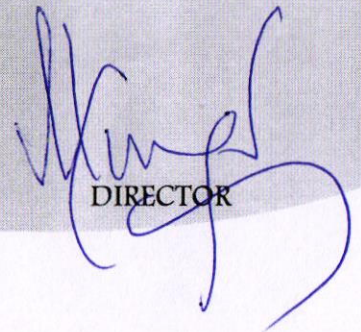
This certificate is presented to

PIYUSH KUMAR SONI

For actively participating in the value added course “Object Oriented Design and Programming in Labview” Conducted by School of Computing, BIHER from 22.12.2017 to 06.01.2018.


COURSE COORDINATORS


HEAD OF THE DEPARTMENT


DIRECTOR

COURSE FEEDBACK FORM

Academic Year		2017-18			
Term					
Course Number					
Course Title		Object Oriented Design & Programming in Java			
Number of Credits					
Type of Course	Regular		Elective		Add-on <input checked="" type="checkbox"/>

I. Information on the Respondent: (Tick (✓) Appropriately)

1. Percentage of classes attended

0-20		20-40		40-60		60-80	✓	80-100	
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2. Number of hours per week spent on the course (Other than lecture hours)

0-2		2-4		4-6		6-8		8-10	✓
-----	--	-----	--	-----	--	-----	--	------	---

3. Preparation for the course by the student:

(i)	Have done part of this course earlier	No
(ii)	Has adequate prior exposure to the prerequisites	No
(iii)	Had to pickup relevant additional topics through concurrent study	Yes
(iv)	Have no exposure to the background material	No

4. The expectations for taking the course by the student are:

(a)	Enhance by skill base in the area of specializations	Yes
(b)	Get exposed to a relevant subject	Yes
(c)	Curiosity	Yes
(d)	Better Employment Opportunity	Yes
(e)	Complete Course requirements	Yes
(f)	To Improve CGPA	Yes

About the Instructor: Information on the Respondent: (Tick (✓) Appropriately)

		A	B	C	D	E
1.	Pace of the Teaching/lecture	✓				
2.	Comment of the Subject	✓				
3.	Clarity of expression	✓				
4.	Level of preparation	✓				
5.	Level of interaction	✓				
6.	Accessibility outside the class		✓			
7.	Others (please specify)	✓				

A: Excellent	✓	B: Very Good		C: Good		D: Satisfactory		E: Poor
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HEAD OF THE DEPARTMENT

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 Department of Computer Sci & Engg.,
 Bharath Institute of Higher Education & Research
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 Chennai-600 073. INDIA



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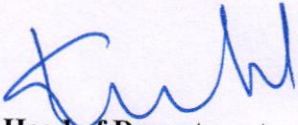
(Declared as Deemed-to-be University under section 3 of UGC Act 1956)

CIRCULAR

07.02.2018

The School of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on **Certificate Course of Hands on training on Tally** for the benefit of II, III, IV year students. This course is scheduled from 09.02.2018 for 30hours which includes theory and practical. The timings are 1:30 PM to 4:30 PM from Friday (AN) and Saturday (FN&AN).

All Registered Students must attend all the classes without fail. The following faculty members are assigned to handle the course. S.NO	Name of the Faculty	Designation
1	Dr.C.Nalini	Professor
2	Dr.C.Rajabhushanam	Professor


Head of Department

To

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HEAD OF DEPARTMENT
Department of Computer Science & Engg.,
Bharath Institute of Higher Education & Research
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Chennai-600 073. INDIA



Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

(Declared as Deemed-to-be University under section 3 of UGC Act 1956)

CERTIFICATE COURSE OF HANDS ON TRAINING ON TALLY

Date of Introduction of the Course: 09.02.2018

COURSE SYLLABUS

1. Basics of Accounting

Type of Accounts, Golden Rules of Accounting, Accounting Principles, Concepts and Conventions, Double Entry System of Book Keeping mode of accounting, Financial Statements, Transactions, Recording Transaction.

2. Fundamental of Tally.ERP9

Getting fundamental with Tally.ERP9, Creation & Setting up of Company in Tally.ERP9, Accounting Masters in Tally.ERP9, F11 Features, F12 Configurations, Setting up Account Head

3. Inventory in Tally.ERP9

Stock Group, Stock Categories, Go-downs / Locations, Units of Measure, Stock Items

4. Voucher Entry in Tally.ERP9

Accounting Vouchers, Inventory Vouchers, Invoicing

5. Advance Accounting in Tally.ERP9

Bill-wise details, Cost Centers and Cost Categories, Multicurrency, Bank Reconciliation, Interest Calculations, Budgets & Controls, Scenario Management

6. Advanced Inventory in Tally.ERP9

Order Processing, Re-order Level, Tracking Number, Batch-wise details, Additional Cost Details, Bill of Materials (BOM), Price Level and Price List, Stock Valuation, Inventory Ageing Analysis, Different and Billed Quantities

7. Point of Sales (POS)

Features of Point of Sales (Pos) in Tally.ERP9, POS Invoice, POS Report

8. Job Costing

Configuration Job Costing in Tally, Creating Master for Job Costing, Recording Transactions, Job Costing Report

9. Multilingual Capability

Configuring Tally.ERP9 for Multilingual Capability, Creating Master, Entering Transaction, Generating Report

10. Technological Advantages of Tally.ERP9

Tally Vault, Security Control, Tally Audit, Backup and Restore, Split Company data, Export & Import, ODBC Connectivity, Online Help, Printing Report, Data Synchronization

11. Tally.NET features

Over View of Tally.NET, Configuring Tally.NET Features, Connect Company on Tally.NET, Create Remote User, Authorize Remote User, Remote Access

12. Application Management and Control

Concept of Control Center, Installing & Activating Tally.ERP9, Logging to Control Center, Managing Accounts using control center

13. Online Help and Support

Features Support Center, Accessing Support Center, Using Support Center

14. Goods and Services Tax

Basics of GST, Configuring GST Features, Creating Masters, Entering Transactions, GST Report, GST Filing

15. Tax Deducted at Sources (TDS)

Basic Concepts of TDS, Configuring TDS in Tally.ERP9, Creation Masters, Processing Transaction, TDS Reports

16. Payroll and Compliances

Configuration Payroll in Tally.ERP9, Creating Payroll Masters, Processing Payroll in Tally.ERP9, Accounting for Employer PF Contribution, Accounting for Employer ESI Contribution, Payment of Professional Tax

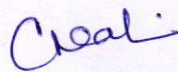
COURSE OBJECTIVES

In this course we plan to give students an overview of the Tally, a complete system for business accounting and inventory management. It provides various facilities like Govt. supported formats, multilingual operations, online functions and processing for small, medium and big businesses. The present version of Tally has many advanced features like better data migrating, payroll management, TDS, TCS, job costing and point- of sale invoicing etc. It is our objective that students will develop the skills needed to become a practitioner in Tally.

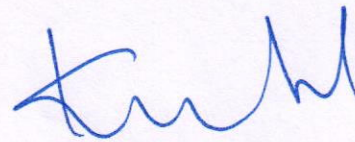
Specifically, the course has the following objectives:

Students will

- Understand the concepts of Tally and also implement the same concepts wherein need.
- step by step process with detailed explanation of each and every topic
- Knowledge on Tally using .NET features for Creating Remote User, Authorize Remote User, Remote Access
- Learn processing and recording of transactions through Tally
- Extensive Learning hours with real time practice on data sets for better learning and increased retention



COURSE COORDINATOR



HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT
Department of Computer Science & Engg.,
Bharath Institute of Higher Education & Research
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Chennai-600 073. INDIA



Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

(Declared as Deemed-to-be University under section 3 of UGC Act 1956)

CERTIFICATE COURSE OF HANDS ON TRAINING ON TALLY

Date of Introduction of the Course: 09.02.2018

The timings are 1:30 PM to 4:30 PM from Friday (AN) and Saturday (FN&AN).

Time Table & Lesson plan

CLASS	DATE	TOPIC
1,2	09-02-2018(AN)	1. Basics of Accounting Type of Accounts, Golden Rules of Accounting, Accounting Principles, Concepts and Conventions, Double Entry System of Book Keeping mode of accounting, Financial Statements, Transactions, Recording Transaction.
3,4	09-02-2018(AN) 10-02-2018(FN)	2. Fundamental of Tally.ERP9 Getting fundamental with Tally.ERP9, Creation & Setting up of Company in Tally.ERP9, Accounting Masters in Tally.ERP9, F11 Features, F12 Configurations, Setting up Account Head
5,6	10-02-2018(FN)	3. Inventory in Tally.ERP9 Stock Group, Stock Categories, Go-downs / Locations, Units of Measure, Stock Items 4. Voucher Entry in Tally.ERP9 Accounting Vouchers, Inventory Vouchers, Invoicing
7,8	10-02-2018 (FN) 10-02-2018(AN)	5. Advance Accounting in Tally.ERP9 Bill-wise details, Cost Centers and Cost Categories, Multicurrency, Bank Reconciliation, Interest Calculations, Budgets & Controls, Scenario Management
9,10	10-02-2018 (AN)	6. Advanced Inventory in Tally.ERP9 Order Processing, Re-order Level, Tracking Number, Batch-wise details, Additional Cost Details, Bill of Materials (BOM), Price Level and Price List, Stock Valuation, Inventory Ageing Analysis, Different and Billed Quantities
11,12	16-02-2018 (AN)	7. Point of Sales (POS) Features of Point of Sales (Pos) in Tally.ERP9, POS Invoice, POS Report

		8. Job Costing Configuration Job Costing in Tally, Creating Master for Job Costing, Recording Transactions, Job Costing Report
13,14	16-02-2018 (AN) 17-02-2018 (FN)	9. Multilingual Capability Configuring Tally.ERP9 for Multilingual Capability, Creating Master, Entering Transaction, Generating Report
15,16	17-02-2018 (FN)	10. Technological Advantages of Tally.ERP9 Tally Vault, Security Control, Tally Audit, Backup and Restore, Split Company data, Export & Import, ODBC Connectivity, Online Help, Printing Report, Data Synchronization
17,18	17-02-2018 (FN) 17-02-2018 (AN)	11. Tally.NET features Over View of Tally.NET, Configuring Tally.NET Features, Connect Company on Tally.NET, Create Remote User.
19,20	17-02-2018 (AN)	11. Tally.NET features (Continued) Authorize Remote User, Remote Access
21,22	23-02-2018 (AN)	12. Application Management and Control Concept of Control Center, Installing & Activating Tally.ERP9, Logging to Control Center, Managing Accounts using control center
23,24	23-02-2018 (AN) 24-02-2018 (FN)	13. Online Help and Support Features Support Center, Accessing Support Center, Using Support Center
25,26	24-02-2018 (FN)	14. Goods and Services Tax Basics of GST, Configuring GST Features, Creating Masters, Entering Transactions, GST Report, GST Filing
27,28	24-02-2018 (FN) 24-02-2018 (AN)	15. Tax Deducted at Sources (TDS) Basic Concepts of TDS, Configuring TDS in Tally.ERP9, Creation Masters, Processing Transaction, TDS Reports
29,30	24-02-2018 (AN)	16. Payroll and Compliances Configuration Payroll in Tally.ERP9, Creating Payroll Masters, Processing Payroll in Tally.ERP9, Accounting for Employer PF Contribution, Accounting for Employer ESI Contribution, Payment of Professional Tax

Creal

COURSE COORDINATOR

[Signature]

HEAD OF THE DEPARTMENT

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Department of Computer Science & Engg.,
Bharath Institute of Higher Education & Research
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Chennai-600 073. INDIA



CERTIFICATE COURSE OF HANDS ON TRAINING ON TALLY
Date of Introduction of the Course: 09.02.2018

School of Computing
Registered Students Name List

S.NO	REG.NO	NAME OF THE STUDENT
1	U14CS001	AADHITYA MALLIKA ARJUN
2	U14CS002	AAVULA DIXITH REDDY
3	U14CS003	ABDUL RAHIM.M
4	U14CS004	ABDUL RAZVI .M.K
5	U14CS005	ABDUR RASEED
6	U14CS006	ABHIKAMALI .A
7	U14CS007	ABHISHEK MANDURI
8	U14CS008	AJAY.D
9	U14CS009	AKASH CHANDRA AMBASTHA
10	U14CS010	AKHIL REDDY.G
11	U14CS011	AKSHAY.R
12	U14CS012	AMAR BASUMATARY
13	U14CS013	ANDREW JOSEPH.V
14	U14CS014	ANGELIN .R
15	U14CS015	ANKITA
16	U14CS016	ANNILKRISHNAN .K
17	U14CS017	ASHUTOSH SRIVASTAVA
18	U14CS019	ARAMBAKAM,YASWANTH
19	U14CS021	AREEF SYED
20	U14CS022	ARUN KUMAR SINGH
21	U14CS023	ASIF NAZIR WANI
22	U14CS024	ATUL ANAND
23	U14CS025	BACHU HARISH
24	U14CS026	BALA MURUGAN .P
25	U14CS027	BALAJI SINGH. T

26	U14CS028	BALAJI.S
27	U14CS029	BALAKRISHNAN.T
28	U14CS031	BISHAL BANIK
29	U14CS032	BODA VEERA VENKATA RAVI TEJA
30	U14CS033	BOORAGADDA VAMSI KRISHNA
31	U14CS034	BOYAPATI VINAY
32	U14CS035	BYSANI VENKAT SANDEEP
33	U14CS036	CHARAN.G
34	U14CS038	CHIDIRALA.SAI SHANKAR
35	U14CS039	CHINTAGUNTA MARUTHI VENKATESWARA REDDY
36	U14CS040	CHINTAPANTI SRIKANTH
37	U14CS041	CHINTLA VENKATESH
38	U14CS042	CHUDAAMANI.V
39	U14CS044	DARA DEEPTHI
40	U14CS045	DEEPAKSANKAR REDDY.M
41	U14CS046	DEVARAPALLI HIMAKAR
42	U14CS047	DEVULAPALLY NAGARAJU
43	U14CS048	DIVYA RUPINI.B
44	U14CS049	EVELIN JUGI.R
45	U14CS050	FAZIL AHAMED.J
46	U14CS146	RAM KUMAR PANDEY
47	U14CS147	RAMANATHAN.J
48	U14CS149	RANGAPUR VIKAS REDDY
49	U14CS151	RAVIPATI SUBBARAYUDU
50	U14CS153	RONU SHARMA
51	U14CS154	RUSHIKA TIWARI
52	U14CS155	TAMMINANA SAGAR
53	U14CS156	SAGI AKSHAY KUMAR
54	U14CS157	SAJJA. SURENDRA PRASAD
55	U14CS158	SAMPA PARH
56	U14CS159	SANASAM VEDRAJ SINGH
57	U14CS160	SANDEEP INGUVA
58	U14CS161	SANJAY KUMAR YADAV
59	U14CS162	SANTHOSH KUMAR.N
60	U14CS163	SASHAANK.S
61	U14CS164	SAURAV KUMAR

Chal
COURSE COORDINATOR

K
HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT
Department of Computer Science & Engg.,
Bharath Institute of Higher Education & Research
(Declared as Deemed to be University U/S 3 of UGC Act, 1956)
Chennai-600 073. INDIA



Bharath

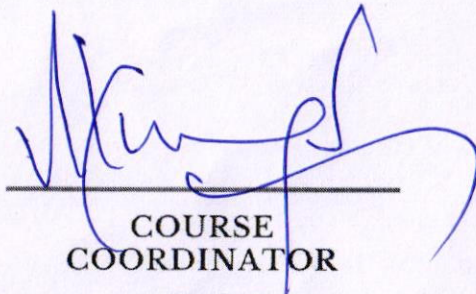
INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Declared as Deemed - to - be - University under section 3 of UGC Act 1956)

PARTICIPATION CERTIFICATE

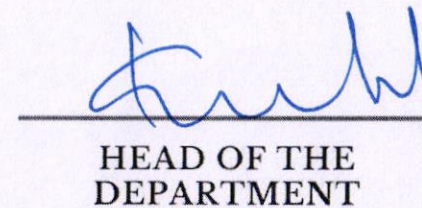
THIS CERTIFICATE IS PRESENTED TO

SABUJ BARMAN

For actively participating in the value added course "HANDS ON TRAINING ON TALLY"
Conducted by School of Computing, BIHER from 09.02.2018 to 24.02.2018.



**COURSE
COORDINATOR**
DIRECTOR



**HEAD OF THE
DEPARTMENT**

CERTIFICATE COURSE ON TALLY



Greer
Course Coordinator

[Signature]
Head of the Department

HEAD OF DEPARTMENT
Department of Computer Science
Bharath Institute of Higher Education & Research
(Declared as Deemed to be University by UGC Act, 1956)
Chennai-600 073, INDIA

COURSE FEEDBACK FORM

Academic Year		2017-2018			
Term		Term - 2			
Course Number					
Course Title		HANDS ON TRAINING ON TALLY			
Number of Credits					
Type of Course	Regular		Elective		Add-on
					✓

I. Information on the Respondent: (Tick (✓) Appropriately)

1.	Percentage of classes attended									
	0-20		20-40		40-60		60-80	✓	80-100	

2.	Number of hours per week spent on the course (Other than lecture hours)									
	0-2		2-4	✓	4-6		6-8		8-10	

3.	Preparation for the course by the student:									
	(i)	Have done part of this course earlier								
	(ii)	Has adequate prior exposure to the prerequisites								
	(iii)	Had to pickup relevant additional topics through concurrent study								
	(iv)	Have no exposure to the background material								

4.	The expectations for taking the course by the student are:									
	(a)	Enhance by skill base in the area of specializations								
	(b)	Get exposed to a relevant subject								
	(c)	Curiosity								
	(d)	Better Employment Opportunity								
	(e)	Complete Course requirements								
	(f)	To Improve CGPA								

About the Instructor: Information on the Respondent: (Tick (✓) Appropriately)

		A	B	C	D	E
1.	Pace of the Teaching/lecture			✓		
2.	Comment of the Subject			✓		
3.	Clarity of expression			✓		
4.	Level of preparation			✓		
5.	Level of interaction			✓		
6.	Accessibility outside the class			✓		
7.	Others (please specify)					

A: Excellent		B: Very Good		C: Good		D: Satisfactory		E: Poor	
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HEAD OF THE DEPARTMENT


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 Department of Computer Science & Engg.,
 Bharath Institute of Higher Education & Research
 (Declared as Deemed to be University U/S 3 of UOE Act, 1956)
 Chennai-600 073, INDIA

COURSE FEEDBACK FORM

*Academic Year		2017-2018			
Term		Term - 2			
Course Number					
Course Title		HANDS ON TRAINING ON TALLY			
Number of Credits					
Type of Course	Regular		Elective		Add-on
					✓

I. Information on the Respondent: (Tick (✓) Appropriately)

1.	Percentage of classes attended									
	0-20		20-40		40-60		60-80	✓	80-100	

2.	Number of hours per week spent on the course (Other than lecture hours)									
	0-2		2-4	✓	4-6		6-8		8-10	

3.	Preparation for the course by the student:									
	(i)	Have done part of this course earlier								
	(ii)	Has adequate prior exposure to the prerequisites								
	(iii)	Had to pickup relevant additional topics through concurrent study								
	(iv)	Have no exposure to the background material								

4.	The expectations for taking the course by the student are:									
	(a)	Enhance by skill base in the area of specializations								
	(b)	Get exposed to a relevant subject								
	(c)	Curiosity								
	(d)	Better Employment Opportunity								
	(e)	Complete Course requirements								
	(f)	To Improve CGPA								

About the Instructor: Information on the Respondent: (Tick (✓) Appropriately)

		A	B	C	D	E
1.	Pace of the Teaching/lecture			✓		
2.	Comment of the Subject			✓		
3.	Clarity of expression			✓		
4.	Level of preparation			✓		
5.	Level of interaction			✓		
6.	Accessibility outside the class			✓		
7.	Others (please specify)					

A: Excellent		B: Very Good		C: Good		D: Satisfactory		E: Poor	
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HEAD OF THE DEPARTMENT


HEAD OF DEPARTMENT
 Department of Computer Science & Engg.,
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Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

(Declared as Deemed-to-be University under section 3 of UGC Act 1956)

CIRCULAR

27.10.2017

The School of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on **Tally ERP,E-Filing, CISCO-CCNA And Redhat** for the benefit of II, III and IV year students. This course is scheduled from 01.11.2017 for 30 hours which includes theory and practical. The timings are 4:00 PM to 5:00 PM from Monday to Friday

All Registered Students must attend all the classes without fail. The following faculty members are assigned to handle the course. S.NO	Name of the Faculty	Designation
1	Mr.B.Sundarrajan	Professor
2	Mrs.S.R.Srividhya	Professor

Head of Department

To

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HEAD OF DEPARTMENT
Department of Computer Sci. & Engg.,
Bharath Institute of Higher Education & Research
(Declared as Deemed to be University U/S 3 of UGC Act, 1956)
Chennai-600 073. INDIA



Sharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

(Declared as Deemed-to-be University under section 3 of UGC Act 1956)

CERTIFICATE COURSE Tally ERP,E-Filing, CISCO-CCNA And Redhat

Date of Introduction of the Course:

The timings are

Time Table & Lesson plan

CLASS	DATE	TOPIC
1,2	1.11.2017, 2.11.2017	Introduction to Tally Expert Accountant Basics of Accounting , Types of Accounts, Golden Rules of Accounting, Accounting Principles, Concepts and Conventions, Double Entry System of Book Keeping, Mode of Accounting, Financial Statements, Transactions, Recording Transactions.
3,4	3.11.2017, 6.11.2017	2. Fundamentals of Tally.ERP9 Getting Functional with Tally.ERP 9 , Creation / Setting up of Company in Tally.ERP 9
5,6	7.11.2017, 8.11.2017	3. Accounting Masters in Tally.ERP 9 Bill-wise Details, Cost Centres and Cost Categories,Voucher Class and Cost Centre Class, Multiple Currencies, Interest Calculations ,Budgets & Controls, Scenario Management
7,8	9.11.2017, 10.11.2017	4. Inventory in Tally.ERP 9 Stock Groups , Stock Categories , Godowns / Locations, Units of Measure, Stock Items
9,10	13.11.2017, 14.11.2017	5. Voucher Entry in Tally.ERP 9 Accounting Vouchers, Inventory Vouchers, Invoicing
11,12	15.11.2017, 16.11.2017	6. Goods and Services Tax (GST) General GST Configuration, GST Invoice, Billing, Reverse Charge, Branch Transfers, Bill of Supply, Export Invoices, Accounting of Input & Output of

		SGST, CGST & IGST, GST Configuration Of Sales & Purchases in Tally. Debit Note & Credit Notes, Composition of GST, Job Work, Preparation of GSTR1, GSTR2 & GSTR3, Annual Returns on Tally.
13,14	17.11.2017, 20.11.2017	7. Practical E-filing SGST, CGST & IGST, Input Tax Credits, Monthly Returns, GSTR 1,1A,2,2A,3, E-way bill and other Returns, Annual Returns. Due date of Returns, Penalties & Interest to be paid, Payment by Challans.
15,16	21.11.2017, 22.11.2017	8. . CISCO CCIE Routing switching, CCNA Security, CCNA Collaboration, CCNA Enterprise
17,18	23.11.2017, 24.11.2017	9.. Technological Advantages of Tally.ERP 9 Tally Vault,Security Control Tally Audit,Backup and Restore,Split Company Data,Export and Import of Data ODBC Connectivity ,Web Enabled,Print Preview and Online Help Printing of Reports and Cheque
19,20	27.11.2017, 28.11.2017	10. Application Management and Controls Concept of Control Centre, Installing & Activating Tally. ERP 9
21,22	29.11.2017, 30.11.2017	11. PF Monthly Return, Challan payment, Due date of filing, Employees & Companies Covered, Share of Employees and Companies
23,24	1.12.2017, 4.12.2017	12.TDS 24Q, 26Q, Revised Returns, Downloading Form 16, Form 16A, Justification Report, Challan payment, Due date of payment of TDS and filing returns, TDS on various payments, Percentage TDS on Monthly Salary.
25,26	5.12.2017, 6.12.2017	13. Red Hat Enterprise Linux Access the command line- Log into a Linux system and run simple commands using the shell- Manage files from the command line Evaluate and control

		processes running on a Red Hat Enterprise Linux system- Investigate and resolve issues in the web-based management interface, getting support from Red Hat to help solve problems
27,28	7.12.2017, 8.12.2017	14. Tax deducted at Source Basic concepts of TDS, Configuring TDS in Tally.ERP9 Creation of Masters, Processing Transactions TDS Reports
29,30	11.12.2017, 12.12.2017	15. Income tax-Salary Return of all Online Return Filing Form ITR-1 and ITR-2, Challan payment, Due date of filing returns, Deductions available under Chapter VI A : 80C, 80CCA, 80G

COURSE COORDINATOR

HEAD OF THE DEPARTMENT

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Department of Computer Science & Engg.,
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Chennai-600 073. INDIA



Sharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

(Declared as Deemed-to-be University under section 3 of UGC Act 1956)

CERTIFICATE COURSE ON Tally ERP,E-Filing, CISCO-CCNA And Redhat

Date of Introduction of the Course: 1.11.2017

COURSE SYLLABUS

1.Introduction to Tally Expert Accountant

Basics of Accounting, Types of Accounts, Golden Rules of Accounting, Accounting Principles, Concepts and Conventions, Double Entry System of Book Keeping, Mode of Accounting, Financial Statements, Transactions, Recording Transactions.

2.Fundamentals of Tally.ERP9

Getting Functional with Tally.ERP 9 , Creation / Setting up of Company in Tally.ERP 9

3.Accounting Masters in Tally.ERP 9

Bill-wise Details, Cost Centres and Cost Categories,Voucher Class and Cost Centre Class, Multiple Currencies, Interest Calculations ,Budgets & Controls, Scenario Management

4. Inventory in Tally.ERP 9

Stock Groups , Stock Categories , Godowns / Locations, Units of Measure, Stock Items

5. Voucher Entry in Tally.ERP 9

Accounting Vouchers, Inventory Vouchers, Invoicing

6. Goods and Services Tax (GST)

General GST Configuration, GST Invoice, Billing, Reverse Charge, Branch Transfers, Bill of Supply, Export Invoices, Accounting of Input & Output of SGST, CGST & IGST, GST Configuration Of Sales & Purchases in Tally. Debit Note & Credit Notes, Composition of GST, Job Work, Preparation of GSTR1, GSTR2 & GSTR3, Annual Returns on Tally.

7. Practical E-filing

SGST, CGST & IGST, Input Tax Credits, Monthly Returns, GSTR 1,1A,2,2A,3, E-way bill and other Returns, Annual Returns. Due date of Returns, Penalties & Interest to be paid, Payment by Challans.

8. CISCO

CCIE Routing switching, CCNA Security, CCNA Collaboration, CCNA Enterprise

9.Technological Advantages of Tally.ERP 9

Tally Vault,Security Control Tally Audit,Backup and Restore,Split Company Data,Export and Import of Data ODBC Connectivity ,Web Enabled,Print Preview and Online Help Printing of Reports and Cheque

10.Application Management and Controls

Concept of Control Centre, Installing & Activating Tally. ERP 9

11. PF

Monthly Return, Challan payment, Due date of filing, Employees & Companies Covered, Share of Employees and Companies

12.TDS

24Q, 26Q, Revised Returns, Downloading Form 16, Form 16A, Justification Report, Challan payment, Due date of payment of TDS and filing returns, TDS on various payments, Percentage TDS on Monthly Salary.

13. Red Hat Enterprise Linux

Access the command line- Log into a Linux system and run simple commands using the shell- Manage files from the command line Evaluate and control processes running on a Red Hat Enterprise Linux system- Investigate and resolve issues in the web-based management interface, getting support from Red Hat to help solve problems

14. Tax deducted at Source

Basic concepts of TDS, Configuring TDS in Tally.ERP9 Creation of Masters, Processing Transactions TDS Reports

15. Income tax-Salary Return of all Online Return Filing

Form ITR-1 and ITR-2, Challan payment, Due date of filing returns, Deductions available under Chapter VI A : 80C, 80CCA, 80G etc

COURSE OBJECTIVES

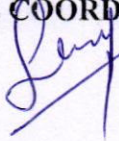
In this course we plan to give students an overview of the field of Tally, and an in-depth even Chartered Accountancy to be an expert in Tally and E return filing of Corporates and firms. . Students will gain hands-on experience solving relevant problems through projects that will utilize existing to become a good Accounting professional. It is our objective that students will develop the skills needed to become a practitioner or carry out research projects in this domain.

Specifically, the course has the following objectives:

Students will learn

- 1) The fundamental ideas behind Tally, is even Chartered Accountancy to be an expert in Tally and E return filing of Corporates and firms; Benefits, as well as current and future challenges;
- 2) The basic ideas for an Accountant, Logic provides a Professional training to those who want to be an Accountant in small to Big companies. It give in depth training on advanced features in Tally
Software deployment considerations;
- 3) API management capabilities increasingly begin to use application programming interface to provide direct programmable access to their services, data and processes
- 4) Red Hat helps create relevant, innovative technologies that liberate resources for growth and prepare customers for the future of IT
- 5) The variety of programming models and develop working experience in several of them

COURSE COORDINATOR



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INSTITUTE OF HIGHER EDUCATION AND RESEARCH
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CERTIFICATE COURSE ON TALLY ERP, E-FILLING, CISCO-CCNA AND REDHAT

Date of Introduction of the Course: 01.11.2017

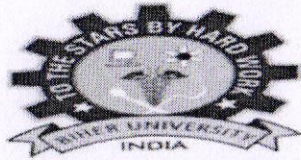
School of Computing
Registered Students Name List

S.NO	REG.NO	NAME OF THE STUDENT
1	U16CS701	PRADEEP SURIYA
2	U16CS702	MOHANRAJ
3	U16CS100	GALLA BHUCHANDRA
4	U16CS101	NITHISHVAR S
5	U16CS151	PODAPATI ASMITHA
6	U16CS152	NALLAPU RAJESH
7	U16CS707	HANUMANTHU RAO
8	U16CS708	SIMRAN ALIZA NISAR
9	U15CS034	CHIDIPOTHU PRATHYUSHA
10	U15CS035	CHINTAGINJALA VENKATA SRI SAI SRAVYA
11	U15CS087	KARTHEESWARAN P
12	U15CS088	KARTHICK S
13	U15CS180	RAVURI SRIKANTH
14	U15CS182	RICHARD WUMBRAND J
15	U15CS183	S. PUNITHA
16	U15CS184	S. SAI SHRUTHI
17	U15CS185	SADHOLLA PRANAY REDDY
18	U15CS241	RUPESH KUMAR ROY
19	U15CS242	KOTAGIRI SAI CHAND
20	U15CS243	RANDHIR KUMAR
21	U15CS244	RAJESH.D
22	U15CS246	J.SAI RAM MADHAV
23	U14CS036	CHARAN.G
24	U14CS038	CHIDIRALA.SAI SHANKAR
25	U14CS110	NAGA TEJA.K
26	U14CS148	RAMYA.B
27	U14CS165	SAURAV SINGH
28	U14CS502	R.SINDHU
29	U14CS182	SRI DHARSHINI .P
30	U14CS183	SULEKHA KUMARI


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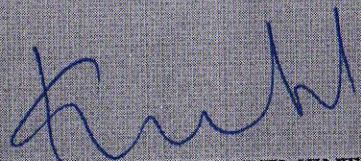
CERTIFICATE OF PARTICIPATION

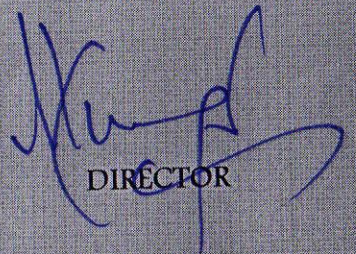
This certificate is presented to

R.SINDHU

For actively participating in the value added course "TALLY Erp,E-FILLING,CISCO-CCNA AND REDHAT" Conducted by School of Computing, BIHER from 01.11.2017 to 12.12.2017.


COURSE COORDINATORS


HEAD OF THE DEPARTMENT


DIRECTOR

COURSE FEEDBACK FORM

Academic Year		2017 - 2018							
Term		ODD SEM							
Course Number									
Course Title		TALLY, ERP, E-FILING, CISCO-CCNA & REDHAT							
Number of Credits									
Type of Course	Regular		Elective		Add-on	<input checked="" type="checkbox"/>			
I. Information on the Respondent: (Tick (√) Appropriately)									
1.	Percentage of classes attended								
	0-20		20-40		40-60		60-80	<input checked="" type="checkbox"/>	80-100
2.	Number of hours per week spent on the course (Other than lecture hours)								
	0-2		2-4		4-6		6-8		8-10 <input checked="" type="checkbox"/>
3.	Preparation for the course by the student:								
(i)	Have done part of this course earlier								YES
(ii)	Has adequate prior exposure to the prerequisites								YES
(iii)	Had to pickup relevant additional topics through concurrent study								YES
(iv)	Have no exposure to the background material								YES
4.	The expectations for taking the course by the student are:								
(a)	Enhance by skill base in the area of specializations								YES
(b)	Get exposed to a relevant subject								YES
(c)	Curiosity								YES
(d)	Better Employment Opportunity								YES
(e)	Complete Course requirements								YES
(f)	To Improve CGPA								YES
About the Instructor: Information on the Respondent: (Tick (√) Appropriately)									
		A	B	C	D	E			
1.	Pace of the Teaching/lecture		<input checked="" type="checkbox"/>						
2.	Comment of the Subject				<input checked="" type="checkbox"/>				
3.	Clarity of expression		<input checked="" type="checkbox"/>						
4.	Level of preparation		<input checked="" type="checkbox"/>						
5.	Level of interaction		<input checked="" type="checkbox"/>						
6.	Accessibility outside the class		<input checked="" type="checkbox"/>						
7.	Others (please specify)								
A: Excellent		B: Very Good		C: Good		D: Satisfactory		E: Poor	

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COURSE FEEDBACK FORM

Academic Year		2017-2018			
Term		ODD SEM			
Course Number					
Course Title		TALLY, ERP, E-FILING, CISCO-CCNA & REDHAT			
Number of Credits					
Type of Course	Regular		Elective		Add-on <input checked="" type="checkbox"/>

I. Information on the Respondent: (Tick (✓) Appropriately)

1. Percentage of classes attended

0-20		20-40		40-60		60-80	✓	80-100	
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2. Number of hours per week spent on the course (Other than lecture hours)

0-2		2-4		4-6		6-8		8-10	✓
-----	--	-----	--	-----	--	-----	--	------	---

3. Preparation for the course by the student:

(i)	Have done part of this course earlier	✓
(ii)	Has adequate prior exposure to the prerequisites	✓
(iii)	Had to pickup relevant additional topics through concurrent study	✓
(iv)	Have no exposure to the background material	✓

4. The expectations for taking the course by the student are:

(a)	Enhance by skill base in the area of specializations	Yes
(b)	Get exposed to a relevant subject	Yes
(c)	Curiosity	Yes
(d)	Better Employment Opportunity	Yes
(e)	Complete Course requirements	Yes
(f)	To Improve CGPA	Yes

About the Instructor: Information on the Respondent: (Tick (✓) Appropriately)

		A	B	C	D	E
1.	Pace of the Teaching/lecture	✓				
2.	Comment of the Subject		✓			
3.	Clarity of expression	✓				
4.	Level of preparation	✓				
5.	Level of interaction	✓				
6.	Accessibility outside the class	✓				
7.	Others (please specify)					

A: Excellent		B: Very Good		C: Good		D: Satisfactory		E: Poor
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