

INSTITUTE OF HIGHER EDUCATION AND RESEARCE



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY

Requisition Letter

Date:25.05.2020

From
Dr. K.P.Kaliyamurthie,
Professor & Head,
Department of CSE,
Bharath Institute of Higher Education and Research,
Chennai

To
The Dean Engineering,
Bharath Institute of Higher Education and Research,
Chennai

Respected sir

Subject: Request of Permission to conduct a value-added course on "Statistics with R Specialization" (online) -Reg

With reference to above subject, I would like to bring to your kind notice that, our department interested to organize value added course on "Statistics with R Specialization" in our campus premises on 02-06-2020, students would be participating in this course. We request you kindly to give permission to organize this event.

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

Submitted to Principal for approval to organize this value-added course.

HOD

HEAD OF DEPARTMENT

Department Of Computer Science & Engg.,
Bharath Institute Of Higher Education & Research
[Deplared as Deemed to be Univ. 1993 Of UGC Act, 1956].

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DEAN ENGINEERING DEAN (Engineering)

Bharath Institute of Science & Technology
BHARATH INSTITUTE OF HIGHER EDUCATION & RESEARCH
(Declared as Deemed to be University U/S 3 of UGC Act. 1956)
Selaiyur, Chennai-600 073.



CIRCULAR

29.05.2020

The school of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on Certificate Course of Statistics with R Specialization for the benefit of students. This course is scheduled from 02.06.2020 to 13.06.2020 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.S.Sadagopan	Professor
2	Ms.C.Geetha	Assistant Professor

Head of Department

To

Copy to CSE

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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 2 Of UGC Act, you
Chennai - 600 073. INDIA



CERTIFICATE COURSE ON STATISTICS WITH R SPECIALIZATION (ON LINE)

Date of Introduction of the Course: 02.07.2020 <u>COURSE SYLLABUS</u>

1. Introduction of Statistics with R Specialization

To learn and analyse and visualize data in R and create reproducible data analysis reports

2. Statistical Inference Fundamentals -1

Demonstrates a conceptual understanding of the unified nature of statistical inference.

3. Bayesian Statistical Inference Based Decisions

Performs frequentist and Bayesian statistical inference and modelling to understand natural phenomena and make data-based decisions.

4. Statistical Results

Explains the communication of statistical results correctly.

5. Statistical Jargon

Describes effectively, and in context without relying on statistical jargon

6. Data-Based Decisions

Explains the critique data-based claims and evaluated data-based decisions, and wrangle and visualize data with R packages for data analysis.

7. Statistical Data Analysis

Demonstrates mastery of statistical data analysis from exploratory analysis to inference to modelling, suitable for applying for statistical analysis or data scientist positions.

8. Bayesian Regression

Explains the Bayesian linear regressions and model averaging, which allows to make inferences and predictions using several models.

9. Perspectives on Bayesian Applications

Describes statisticians on how Applications use Bayesian statistics in various stages.

10. Bayesian Comparisons Techniques

Demonstrates Bayesian comparisons of means and proportions.

11. Bayesian regression Techniques

Explains the Bayesian regression and inference using multiple models.

12. Implementation in R Programming

Describes eliciting prior probabilities to implementing in R (free statistical software) the final posterior distribution.

COURSE OBJECTIVES

To learn and analyse and visualize data in R and learn to perform frequentist and Bayesian statistical inference and modelling to understand natural phenomena and make data-based decisions.

Specifically, the course has the following objectives:

Students will learn

- 1. Understanding Bayesian Statistics
- Understanding linear regression.
- 3. Analyse and visualize data in R
- 4. Create reproducible data analysis reports,
- 5. Demonstrate a conceptual understanding of the unified nature of statistical inference
- Perform frequentist and Bayesian statistical inference and modelling to understand natural phenomena

COURSE COORDINATOR

HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT

Department Of Computer Science & Engg.,

Sharath Institute Of Higher Education & Research

(Declared as Decreal to be University UIS 3 Of USS Act, 1951 Chemist - 800 073, INDIA



CERTIFICATE COURSE ON STATISTICS WITH R SPECIALIZATION

Date of Introduction of the Course: 02.07.2020

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	02-06-2020(FN)	Introduction of Statistics with R Specialization To learn and analyse and visualize data in R and create reproducible data analysis reports
2	03-06-20 20 (FN)	2. Statistical Inference Fundamentals -1 Demonstrates a conceptual understanding of the unified nature of statistical inference
3	04-06-2020 (FN)	 Bayesian Statistical Inference Based Decisions Performs frequentist and Bayesian statistical inference and modelling to understand natural phenomena and make data-based decisions.
4	05-06-2020 (FN)	4. Statistical Results Explains the communication of statistical results correctly
5,6 06-06-2020 (FN & AN)		5. Statistical Jargon Describes effectively, and in context without relying or statistical jargon
7	08-06-2020 (FN)	Data-Based Decisions Explains the critique data-based claims and evaluated data-based decisions, and wrangle and visualize data with R packages for data analysis.
8	09-06-2020 (FN)	7. Statistical Data Analysis Demonstrates mastery of statistical data analysis from exploratory analysis to inference to modelling, suitable for applying for statistical analysis or data scientist positions.
9	10-06-2020 (FN)	Bayesian Regression Explains the Bayesian linear regressions and mode averaging, which allows to make inferences and predictions using several models.
10	11-06-2020 (FN)	Perspectives on Bayesian Applications Describes statisticians on how Applications use Bayesian statistics in various stages.
11	12-06-2020 (FN)	10. Bayesian Comparisons Techniques Demonstrates Bayesian comparisons of means and proportions.

12	13-06-2020(FN)	Bayesian regression Techniques Explains the Bayesian regression and inference using multiple models.
13	13-06-2020(AN)	12. Implementation in R Programming Describes eliciting prior probabilities to implementing in R (free statistical software) the final posterior distribution.

COURSE COORDINATOR

HEAD OF THE DEPARTMENT

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Statistics with R Specialization
Date of Introduction of the Course: 02.07.2020

School of Computing Registered Students Name List

S.NO	REG.NO	NAME OF THE STUDENT
1	U15CS001	ABHIJEET KUMAR
2	U15CS002	ABHIJIT KUMAR GUPTA
3	U15CS003	ABHISHEK KUMAR SINGH
4	U15CS004	ALLU SAI SIVA PRIYANKA NAIDU
5	U15CS005	AMBIKE KUMAR SINGH
6	U15CS006	ANBUMANI S
7	U15CS007	ANJAR ALI
8	U15CS008	ANKAM MANJUNATH
9	U15CS009	ANNADI DHANUSH
10	U15CS010	ANNAVARAPU DIVYA
11	U15CS011	ANUMOLU YESWANTH
12	U15CS012	ARAVAPALLI SIVA VINAYA
13	U15CS013	ARAVINDHAN K R
14	U15CS014	ARVIND KUMAR YADAV
15	U15CS015	ARYAN SAHU
16	U15CS016	ASHISH AGARWAL
17	U15CS017	ASHISH RANJAN
18	U15CS018	ATTANTI RAVIKANTH
19	U15CS019	BANAVATH SUNIL NAIK
20	U15CS020	BANDARU RAMESH
21	U15CS021	BATTA SIVA PRASAD
22	U15CS022	BHARATH K
23	U15CS023	BHARATHI V
24	U15CS024	BIKKI KUMAR SHA

25	U15CS025	BINGEWAR SAISHARAN
26	U15CS026	BIRADAVOLU SUCHARITHA
27	U15CS027	BODA AKHIL WESLEY
28	U15CS028	BONALA SRIDHAR RAO
29	U15CS029	BRYAN STEVE PUSHPARAJ I
30	U15CS030	CHAKKA KSHITHIJA
31	U15CS031	CHAMARTHI LAKSHMI NARAYANA AVINASH
32	U15CS032	CHANDRA KANT CHOUDHARY
33	U15CS033	CHAPPIDI LAKSHMIKANTH REDDY
34	U15CS034	CHIDIPOTHU PRATHYUSHA
35	U15CS035	CHINTAGINJALA VENKATA SRI SAI SRAVYA
36	U15CS036	CHOWDHARY PRASANNA KUMAR
37	U15CS037	CHUNDI VENKATA SESHASAI RAMANAPATANIALI
38	U15CS038	CILLA SAI KISHORE
39	U15CS039	D N S HRUDAY BHARADWAJ
40	U15CS040	DADAM CHAITHRA
41	U15CS041	DEEPAK KUMAR SINGH
42	U15CS042	DILLIGANESH V
43	U15CS043	DIVAKAR M
44	U15CS044	DIVYA VANI T
45	U15CS045	DODDI PUJITHA
46	U15CS046	DOOLIGANTI AKHIL REDDY
47	U15CS047	DUPUGUNTLA BHANU SIVA KASINADH
48	U15CS048	GANDLUR REDDY GREESHMA

COURSE COORDINATOR

HEAD OF THE DEPAR

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, 7.
Chennal - 600 073. INDIA

Academic Year Ferm		r	2020-20	021									
	50												
	rse Numb	er											
Cou	rse Title		Statisti	ics with R S	pecializati	on							
Num	ber of Cr	edits							_				
Турс	of Cours	e Regular		E	lective			Add-on					
i.	Inform	ation on the Respon	dent: (T	ick (√) App	ropriately)								
	Percen	Percentage of classes attended											
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		ation for the course											
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	(ii)	Has adequate prior exposure to the prerequisites											
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HEAD OF THE DEPARTMENT

MEAD OF DEPARTMENT

Department Of Computer Science & Engg.

Bharath Institute Of Higher Education & Research

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	ademic Y	ear	2020-2021							
Ter	m									
Coı	ırse Num	ber								
Coı	ırse Title		Statistics	with R Specia	lization					
Nu	nber of C	redits					Add-on	T	_	
Тур	e of Cou	rse Regular		Elective	•		Add-on			
I.	Infor	nation on the Respon	dent: (Tick	(√) Appropria	tely)					
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	(i)	Have done part of the				es				
	(ii)	Has adequate prior				No				
	(iii)	Had to pickup relev			h concurrent		<i>y</i>			
	(iv)	Have no exposure to	the backgr	ound material		No				
_	The	pectations for taking	the course	by the student	are:					
1.		Enhance by skill bas				0/				
	(a)	Get exposed to a rel				Yes				
	(b)	the second secon	evant subject			Yes				
	(c)	Curiosity	Opportunity			•1				
	(d)	Better Employment		1.						
	(e)	Complete Course re	quirements			Yes				
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		the Teaching/lecture								
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		bility outside the class		-						
6	Others	(please specify								
•										

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Department Of Computer Science & Engg.,

Bharath Institute Of Higher Education & Research

(Doclared as Deemed to be University U/S 3 Of UGC Act, 1956)

Chennai - 600 073, INDIA

A	Academic Year 2020-20												
Te	rm												
Co	ourse Num	ber											
Co	ourse Title			Stati	istics v	cs with R Specialization							
Nu	umber of (Credits											
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	Prepa	ration	for the cou	irse by the	studer	nt:							
	(i)	Hav	e done part	of this cou	rse ear	lier		No					
	(ii)	Has	adequate p	rior exposu	re to th	ne prerequi	sites	Yes					
	(iii)	Had	to pickup	elevant add	litional	topics thro	ough concu		No				
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	(b)		177		120								
	(c)		iosity		72								
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	(e)		plete Cours					72					
	(f)	To I	mprove CG	PA				Ye	3				
bo	ut the Ins	tructo	r: Informa	tion on the	e Resp	ondent: (T	ick (√) Ap	propriatel	y)				
						A	В		C	D		E	
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	Others	please	specify		_		-						
						-							
E	xcellent		B: Ve	ry Good		C: Good	i	D: S	atisfacto	ry	E: Poor		

HEAD OF THE DEPARTMENT

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Department of Computer Science & Engg.,

(Doctated as Deemed to be University U/S 3 Of UGC Act, 1950)





INSTITUTE OF HIGHER EDUCATION AND RESEARCH



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY No. 173, Agharam Road, Selaiyur, Chennal, T.N. - 600 073.

Requisition Letter

Date: 26.05.2020

From
Dr. K.P.Kaliyamurthie,
Professor & Head,
Department of CSE,
Bharath Institute of Higher Education and Research,
Chennai

To
The Dean Engineering,
Bharath Institute of Higher Education and Research,
Chennai

Respected sir

Subject: Request of Permission to conduct a value-added course on "Training on CCNA Routing and Switching" (on line) -Reg

With reference to above subject, I would like to bring to your kind notice that, our department interested to organize value added course on "Training on CCNA Routing and Switching" in our campus premises on 02.06.2020, students would be participating in this course. We request you kindly to give permission to organize this event.

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

Submitted to Principal for approval to organize this value-added course.

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)
Chennal - 600 073. INDIA

DEAN ENGINEERING DEAN (Engineering)

Bharath Institute of Science & Federalogy
Bharath institute of Higher (Ducation & Research
(Declared as Deamed to be the version this plant (Ducation & Selaryur, Chemnal-500 073.



CIRCULAR

29.05.2020

The school of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on **Training on CCNA Routing and Switching** for the benefit of students. This course is scheduled from 02.06.2020 to 11.06.2020 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. G. Michael.	Professor
2	Mrs. N. Priya	Assistant Professor

Head of Department

HEAD OF DEPARTMENT

To

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CERTIFICATE COURSE ON Training on CCNA Routing and Switching

Date of Introduction of the Course: 02.07.2020

COURSE SYLLABUS

1. Network Fundamentals

To learn the role and function of network components (Routers, Switches, Bridges and Hubs). OSI and TCP/IP models Data flow between two hosts across a network

2. Characteristics of network topology architectures

Learn about 2 tier, 3 tier, Spine-leaf, WAN, Small office/home office (SOHO), On-premises and cloud

3. LAN Switching Technologies

Configure and verify initial switch configuration. Switch operation (ping, telnet), Identify enhanced switching technologies

4. Switching concepts

MAC learning and aging, Frame switching, Frame flooding, MAC address table

5. IP Routing Technologies

Basic routing concepts, describe the boot process of Cisco IOS routers, Configure and verify basic Router configuration

6. IP Connectivity

Interpret the components of routing table

7. IP Services

Configure and verify DHCP (IOS Router), ACL (Types, Features & Applications of ACLs), and Identify the basic operation of NAT, Describe SNMP v2 & v3

8. WAN Technologies

Identifying different WAN Technologies

9. IP addressing (IPv4 / IPv6)

Private and public IP addresses for IPv4, IPv6 addressing scheme, IPv4 addressing scheme using VLSM and summarization

10. Network Device Security

Define key security concepts, Describe security program elements, and Describe security password policies elements, such as management, complexity, and password alternatives

11. Troubleshooting

Utilize net flow data, Troubleshoot and Resolve VLAN problems, Identify and correct common network problems

12. Automation and programmability

How automation impacts network management, traditional networks with controller-based networking

COURSE OBJECTIVES

This course is designed to impart knowledge about detailed knowledge of Computer Networks, various protocols used in Communication, Managing and configuring Switches and Routers and various WAN technologies.

Students will learn

- 1. Understanding Network Fundamentals
- 2. Understanding LAN Switching Technologies
- 3. Analyse IP Routing Technologies
- 4. Understanding different WAN Technologies
- 5. Demonstrate Private and public IP addresses for IPv4, IPv6 addressing scheme
- 6. Knowing to resolve VLAN problems

COURSE COORDINATOR

HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT
Lepartment of Computer Scie 2 Engg.
Letter Land Computer Scie 2 Learnth



CERTIFICATE COURSE ON STATISTICS WITH R SPECIALIZATION

Date of Introduction of the Course: 02.07.2020

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	02-06-2020(FN)	1.Network Fundamentals To learn the role and function of network components (Routers, Switches, Bridges and Hubs). OSI and TCP/IP models Data flow between two hosts across a network
2	03-06-2020 (FN)	2.Characteristics of network topology architectures Learn about 2 tier, 3 tier, Spine-leaf, WAN, Small office/home office (SOHO), On-premises and cloud
3	04-06-2020 (FN)	3. LAN Switching Technologies Configure and verify initial switch configuration. Switch operation (ping, telnet), Identify enhanced switching technologies
4	05-06-2020 (FN)	4. Switching concepts MAC learning and aging, Frame switching, Frame flooding, MAC address table
5	06-06-2020 (FN)	5. IP Routing Technologies Basic routing concepts, describe the boot process of Cisco IOS routers, Configure and verify basic Router configuration
6,7	06-06-2020 (FN & AN)	6. IP Connectivity Interpret the components of routing table 7. IP Services Configure and verify DHCP (IOS Router), ACL (Types, Features & Applications of ACLs), and Identify the basic operation of NAT, Describe SNMP v2 & v3

8	08-06-2020 (FN)	8. WAN Technologies Identifying different WAN Technologies
9	09-06-2020 (FN)	9. IP addressing (IPv4 / IPv6) Private and public IP addresses for IPv4, IPv6 addressing scheme, IPv4 addressing scheme using VLSM and summarization
10	10-06-2020 (FN)	10. Network Device Security Define key security concepts, Describe security program elements, and Describe security password policies elements, such as management, complexity, and password alternatives
11,12	11-06-20 20(FN & AN)	11. Troubleshooting Utilize net flow data, Troubleshoot and Resolve VLAN problems, Identify and correct common network problems 12. Automation and programmability How automation impacts network management traditional networks with controller-based networking

HEAD OF THE DEPARTMENT

Chennyl-Goo 073, 171D1A



INSTITUTE OF HIGHER EDUCATION AND RESEARCH (Declared as Deerned-to-be University under section 3 of UGC Act, 1956) (Vide Notification No. F.9-5/2000 - U.3, Ministry of Human Resource Development, Govt. of India, dated 4" July 2002)

	DEPART	TMENT OF COMPUTER SCIENCE AND ENGINEERING	
	D	ate of Introduction of the Course: 02.07.2020	
		B.Tech Computer Science and Engineering	
		Traning on CCNA Routing and Switching	
S. No	REG.NO	NAME OF THE CANDIDATE	
1	U15CS042	DILLIGANESH V	
2	U15CS043	DIVAKAR M	
3	U15CS044	DIVYA VANI T	
4	U15CS045	DODDI PUJITHA	
5	U15CS046	DOOLIGANTI AKHIL REDDY	
6	U15CS047	DUPUGUNTLA BHANU SIVA KASINADH	
7	U15CS048	GANDLUR REDDY GREESHMA	
8	U15CS049	GANESH BAG	
9	U15CS050	GANGARAJU RAHUL	
10	U15CS051	GANGARAPU UKESH	
11	U15CS052	GANGU BHAGYA	
12	U15CS053	GLADSON J	
13	U15CS054	GOLI SUDEEP KRISHNA	
14	U15CS055	GOLLAPUDI KALYAN KUMAR	
15	U15CS056	GORRE THIRUPATHI REDDY	
16	U15CS057	GUIJETI MAHESH	
17	U15CS058	GUNDA VINAY KUMAR	
18	U15CS059	HANUMAN B	
19	U15CS060	HARI HARAN M	
20	U15CS061	HASTHI RUCHITHA	
21	U15CS062	HEMA NARAYANAN R	
22	U15CS063	INAPARTHI RAGHAVA	
23	U15CS064	INJE RAVI TEJA	
24	U15CS065	INNURU SWATHI	
25	U15CS066	JAGADEESH K	
26	U15CS067	JAGADEESWARA RAO JADDU	
27	U15CS068	JAICHAND KUMAR	
28	U15CS069	JANAKI RAMAN V	
29	U15CS070	JHA ABHISHEK AJAY	
30	U15CS071	JOHN PARAM JYOTHI JYOTHULA	
31	U15CS072	JOTHI R	
32	U15CS073	K THULASIRAM	
33	U15CS074	KADALI VINAY NARASIMHA	

34	U15CS075	KADUMU MOUNIKA	
35	U15CS076	KAIPU PRANAY REDDY	
36	U15CS077	KALYANAM JASWANTH NAIDU	
37	U15CS078	KAMBLE NIKHIL KUMAR	
38	U15CS079	KANCHARLAPALLI LOKESHWAR RAO	
39	U15CS080	KANCHUMARTHI BHUVANESWAR VINAY	
40	U15CS081	KANCHUPATI JAGANMOHAN RAO	
41	U15CS082	KANDI ASHOKA REDDY	
42	U15CS083	KANDI MOUNIKA	
43	U15CS084	KANDUKURI JESHWANTH	
44	U15CS085	KANDULA SRINATH	
45	U15CS086	KARAPAREDDY BHARGAVI	
46	U15CS087	KARTHEESWARAN P	
47	U15CS088	KARTHICK S	
48	U15CS089	KARUTURI SREE RAM	
49	U15CS090	KATTA NARENDRA	
50	U15CS091	KHALYAN S N	
51	U15CS092	KISHORE VENKAT	
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Requisition letter

Date: 18.05.2020

From

Dr.Kaliyamurthy M.E., Ph.D.,

Professor & Head,

Department of CSE,

Bharath Institute of Higher Education and Research,

Chennai.

To

Dean Engineering,

Bharath Institute of Higher Education and Research,

Chennai.

Respected Sir

Sub: Request of permission to conduct a value - added course on "Core java for android programming" (online) -Reg

With reference to above subject, I would like to bring to your kind notice that, our department interested to organize value added course "Core java for android programming" - Reg in our campus premises on 28.05.2020 students would be participating in this course. We request you kindly to give permission to organize this event.

Timing: 9:30 AM to 12:30 PM (FN) and 1:30 PM to 4:30 PM (AN)

Submitted to principal for approval to organize this value-added course.

HEAD OF DEPARTMENT Department Of Computer Science & Engg., Bharath Institute Of Higher Education & Research Hevialedias Deemed to by University on

DEAN ENGINEERING

DEAN (Engineering) Bharath Institute of Science & Technology BHARATH INSTITUTE OF HIGHER EDUCATION & RESEARCH (Declared as Deemed to be University U/S 3 of UGC Act. 1956) Selaiyur, Chennai-600 073.



CIRCULAR

21.05.2020

The school of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on Certificate Course of CORE JAVA FOR ANDROID PROGRAMMING for the benefit of students. This course is scheduled from 28.05.2020 to 09.06.2020 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. Gr. Michael	Professor
2	Mas. R. Kavitha	Assistant Professor

Head of Department

To

Copy to CSE

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CERTIFICATE COURSE ON CORE JAVA FOR ANDROID PROGRAMMING

Date of Introduction of the Course: 02.07.2020

COURSE SYLLABUS

1. Introduction of Core Java

To learn and analyse Core java for android

2. Introduction to android studio

Provides an overview of Android Studio, explaining how to install it and apply it to develop a simple app using basic Java and Android features presented in this MOO

3. MOOC Overview

organization of the MOOC and the topics it covers. It also discusses the MOOC prerequisites, workload, and learning strategies needed to complete the MOOC successfully. It then presents an overview of key features in the Java language, outlining its support for object-oriented programming concepts that guide the development of Android apps.

4. Writing a Simple Android App Using Basic Java Features

Explains how to write a simple Android app that defines variables using primitive Java data types, shows how to assign values to those variables, and output them to the Android display using Java classes and methods

5. Control Flow

Covers Java's looping constructs (e.g., for loops, while loops, and do/while loops), as well as its conditional statements (e.g., if/else statements)

6. Structured Data

Provides more detail on common data structures supported by Java, including built-in arrays, as well as core classes in the Java Collections Framework, such as ArrayList and HashMap.

7. Classes and Interfaces

overs Java classes and interfaces, focusing on data types, fields, methods, generic parameters, and exceptions.

8 Inheritance

Explains the inheritance and its view towards android programming

9. Polymorphism

Examines Java's polymorphism features (e.g., extending classes and virtual methods).

10. Android Calculator App

Guides learners through the creation of an Android app that implements a simple calculator, which provides features for adding, subtracting, multiplying, and dividing numbers input by various means (e.g., via numbers and buttons on the Android user interface).

COURSE OBJECTIVES

This Specialization enables learners to successfully apply core Java programming languages features & software patterns needed to develop maintainable mobile apps comprised of core Android components, as well as fundamental Java I/O & persistence mechanisms.

Specifically, the course has the following objectives:

Students will learn

- 1. Understanding Core java
- 2. Understanding Android app.
- 3. Analyse and inherit java in android
- Create Android programming with java.

COURSE COORDINATOR



CERTIFICATE COURSE ON CORE JAVA FOR ANDROID PROGRAMMING

Date of Introduction of the Course: 02.07.2020

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	28-05-2020(FN)	1. Introduction of Core Java To learn and analyse Core java for android				
2	29-05-2020 (FN)	2. Introduction to android studio Provides an overview of Android Studio, explaining how to install it and apply it to develop a simple app using basic Java and Android features presented in this MOO.				
3,4	30-05-2020 (FN & AN)	3. MOOC Overview organization of the MOOC and the topics it covers. It then presents an overview of key features in the Java language, outlining its support for object-oriented programming concepts that guide the development of Android apps.				
5	01-06-2020 (FN)	4. Writing a Simple Android A Java Features Explains how to write a simple Android A variables using primitive Java data				
6	02-06-2020 (FN)	5. Control Flow Covers Java's looping constructs (e.g., for loops, while loops, and do/while loops), as well as its conditional statements (e.g., if/else statements)				

7	03-06-2020 (FN)	Provides more detail on common data structures supported by Java, including built-in arrays, as well as core classes in the Java Collections Framework, such as ArrayList and HashMap.
8	05-06-2020 (FN)	7. Classes and Interfaces Provide overs Java classes and interfaces, focusing on data types, fields, methods, generic parameters, and exceptions.
9,10	06-06-2020 (FN &AN)	8. Inheritance Explains the inheritance and its view towards android programming.
11	08-06-2020 (AN)	9. Polymorphism Examines Java's polymorphism features (e.g., extending classes and virtual methods).
12	09-06-2020 (FN)	Ouides learners through the creation of an Android app that implements a simple calculator, which provides features for adding, subtracting, multiplying, and dividin numbers input by various means (e.g., via numbers and buttons on the Android user interface).

COURSE COORDINATOR



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

	B.Tech Computer Sc	cience and Engineering									
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1	U15CS039	D N S HRUDAY BHARADWAJ									
2	U15CS040	DADAM CHAITHRA									
3	U15CS041	DEEPAK KUMAR SINGH									
4	U15CS042	DILLIGANESH V									
5	U15CS043	DIVAKAR M									
6	U15CS044	DIVYA VANI T									
7	U15CS045	DODDI PUJITHA									
8	U15CS046	DOOLIGANTI AKHIL REDDY									
9	U15CS047	DUPUGUNTLA BHANU SIVA KASINADH									
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17	U15CS055	GOLLAPUDI KALYAN KUMAR									
18	U15CS056	GORRE THIRUPATHI REDDY									
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20	U15CS058	GUNDA VINAY KUMAR									
21	U15CS059	HANUMAN B									
22	U15CS060	HARI HARAN M									
23	U15CS061	HASTHI RUCHITHA									
24	U15CS062	HEMA NARAYANAN R									
25	U15CS063	INAPARTHI RAGHAVA									
26	U15CS064	INJE RAVI TEJA									
27	U15CS065	INNURU SWATHI									
28	U15CS066	JAGADEESH K									
29	U15CS067	JAGADEESWARA RAO JADDU									
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HEAD OF THE DEPARTMENT

METHODE DEPORTMENT



Bharath UNIVERSITY 34

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH

(Declared as Deemed-to-be-University, Ws 3 of the UGC Act, 1956)





Ms. HEMA NARAYANAN

For actively participating in the value added course "core java for Android Programming "Conducted by School of Computing, BIHER from 28-05-2020 to 09.06.2020 .

Course Coordinator

Head of the Department

Diagram



Requisition letter

Date: 18.05.2020

From

Dr.Kaliyamurthy M.E.,PH.D,

Professor & Head,

Department of CSE,

Bharath Institute of Higher Education and Research,

Chennai.

To

Dean Engineering,

Bharath Institute of Higher Education and Research,

Chennai.

Respected Sir

Sub: Request of permission to conduct a value – added course on "IBM AI Enterprise workflow specialization" (online) -Reg

With reference to above subject, I would like to bring to your kind notice that, our department interested to organize value added course "IBM AI enterprise workflow specialization"-Reg in our campus premises on 28.05.2020 students would be participating in this course. We request you kindly to give permission to organize this event.

Timing: 9:30 AM to 12:30 PM (FN) and 1:30 PM to 4:30 PM (AN)

Submitted to principal for approval to organize this value-added course.

HOD

HEAD OF DEPARTMENT
Department of Computer Science & Engg.,
Bharath Institute Of Higher Education & Research
(Declared as Deemed to be University US 2 Of USC Act, 1955)
Chanal - 600 pm. Mala

DEAN ENGINEERING

DEAN (Engineering)

Bharath Institute of Science & Technolog

BHARATH INSTITUTE OF HIGHER EDUCATION & MI
(Declared as Deamed to be University U/S it of UGC Act. 1997)

Selaiyur, Chennai-600 073.



Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

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

CIRCULAR

21.05.2020

The school of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on Certificate Course of IBM AI Enterprise Workflow Specialization for the benefit of students. This course is scheduled from 28.05.2020 to 09.06.2020. 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	Da A.R. Anunachalam	Professor
2	Mas Cr. Kavitha	Assistant Professor

Head of Department

To

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CERTIFICATE COURSE ON IBM AI ENTERPRISE WORKFLOW SPECIALIZATION

Date of Introduction of the Course: 02.07.2020

COURSE SYLLABUS

1. IBM AI Enterprise Workflow Introduction

The goal of this first module is to introduce you to the overall specialization requirements, evaluate your understanding of some key prerequisite knowledge, and familiarize you with several process models commonly used.

2. Technical essentials for AI

Describe and explain the key terms in the field of artificial intelligence (Analytics, Data Science, Machine Learning, Deep Learning, Artificial Intelligence etc.)

3. Application of AI in business

Identify use cases where artificial intelligence solutions can address business opportunities. Demonstrate knowledge of scenarios for application of machine learning.

4. Data understanding techniques in AI.

Demonstrate knowledge of data collection practices. Explain characteristics of different data types.

5. Data Preparation technique in data science

Demonstrate expertise cleaning data and addressing data anomalies. Show knowledge of feature engineering and dimensionality reduction techniques.

6. Data Preparation technique in AI

Demonstrate mastery preparing and cleaning unstructured text data.

7. Application of data science and models

Explain machine learning algorithms and the theoretical basis behind them.

8. Application of AI techniques and models.

Demonstrate practical experience building machine learning models and using different machine learning algorithms.

9. Evaluation of AI models

Identify different evaluation metrics for machine learning algorithms and how to use them in the evaluation of model performance

10. Deployment of AI models

Demonstrate knowledge of requirements for model monitoring, management and maintenance. Identify IBM technology capabilities for building, deploying, and managing AI models.

11. Technical stack of Data science

Describe the differences between traditional programming and machine learning. Demonstrate foundational knowledge of using python as a tool for building AI solutions.

12. Technical stack of AI

Describe the differences between traditional programming and machine learning. Demonstrate foundational knowledge of using python as a tool for building AI solutions

COURSE OBJECTIVES

This six-course specialization is designed to prepare you to take the certification examination for IBM AI Enterprise Workflow Specialist. IBM AI Enterprise Workflow is a comprehensive, end-to-end process that enables data scientists to build AI solutions, starting with business priorities and working through to taking AI into production.

Specifically, the course has the following objectives:

Students will learn

- 1. The fundamental terms and concepts of design thinking.
- 2. The different types of fundamental Data Science
- 3. Thr general properties of common probability distributions.
- 4. Basic understanding of computer vision
- 5. Demonstrate basic understanding of IBM Watson AI services

COURSE COORDINATOR



Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

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

CERTIFICATE COURSE ON IBM AI ENTERPRISE WORKFLOW SPECIALIZATION

Date of Introduction of the Course: 02.07.2020

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. IBM AI Enterprise Workflow Introduction
1	28-05-2020 (FN)	The goal of this first module is to introduce you to the overall specialization requirements, evaluate your understanding of some key prerequisite knowledge, and familiarize you with several process models commonly used today.
	29-01-2020	2. Technical essentials for AI
2	(FN)	Describe and explain the key terms in the field of artificial intelligence (Analytics, Data Science, Machine Learning, Deep Learning, Artificial Intelligence etc.)
		3. Application of AI in business
3,4	30-05-2020 (FN & AN)	Identify use cases where artificial intelligence solutions can address business opportunities. Demonstrate knowledge of scenarios for application of machine learning.
	01-06-2020	4. Data understanding techniques in AI.
5	(FN)	Demonstrate knowledge of data collection practices. Explain characteristics of different data types.
		5. Data Preparation technique in data science
6	02-06-2020 (FN)	Demonstrate expertise cleaning data and addressing data anomalies. Show knowledge of feature engineering and dimensionality reduction techniques.
7	03-06-2020 (FN)	7. Application of data science and models Explain machine learning algorithms and the theoretical basis behind them.

9	04-06-2020 (FN)	8. Application of AI techniques and models. Demonstrate practical experience building machine learning models and using different machine learning algorithms.
10	05-06-2020 (FN)	9. Evaluation of AI models Identify different evaluation metrics for machine learning algorithms and how to use them in the evaluation of model performance.
11	06-06-2020 (FN)	10. Deployment of AI models Demonstrate knowledge of requirements for model monitoring, management and maintenance. Identify IBM technology capabilities for building, deploying, and managing AI models.
12	08-0 6 -2020 (FN)	11. Technical stack of Data science Describe the differences between traditional programming and machine learning. Demonstrate foundational knowledge of using python as a tool for building AI solutions
13	09-0 5 -2020 (FN)	10. Technical stack of AI Describe the differences between traditional programming and machine learning. Demonstrate foundational knowledge of using python as a tool for building AI solutions



(NSTITUTE OF HIGHER EDUCATION AND RESEARCH (Declared as Deemed-to-be University under section 3 of UGC Act, 1956) (Vide Notification No. F.9-S/2000 - U.3. Ministry of Human Resource Development, Govt. of India. dated 4" July 2002)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

B.Tech Computer Science and Engineering

Academic year 2020-21

IBM AI Enterprise Workflow Specialization

DATE OF INTRODUCTION:02.07.2020

S. No	REG.NO	NAME OF THE CANDIDATE	
1	U15CS071	JOHN PARAM JYOTHI JYOTHULA	
2	U15CS072	JOTHI R	
3	U15CS073	K THULASIRAM	
4	U15CS074	KADALI VINAY NARASIMHA	
5	U15CS075	KADUMU MOUNIKA	
6	U15CS076	KAIPU PRANAY REDDY	
7	U15CS077	KALYANAM JASWANTH NAIDU	
8	U15CS078	KAMBLE NIKHIL KUMAR	
9	U15CS079	KANCHARLAPALLI LOKESHWAR RAO	
10	U15CS080	KANCHUMARTHI BHUVANESWAR VINAY	
11	U15CS081	KANCHUPATI JAGANMOHAN RAO	
12	U15CS082	KANDI ASHOKA REDDY	
13	U15CS083	KANDI MOUNIKA	
14	U15CS084	KANDUKURI JESHWANTH	
15	U15CS085	KANDULA SRINATH	
16	U15CS086	KARAPAREDDY BHARGAVI	
17	U15CS087	KARTHEESWARAN P	
18	U15CS088	KARTHICK S	
19	U15CS089	KARUTURI SREE RAM	
20	U15CS090	KATTA NARENDRA	
21	U15CS091	KHALYAN S N	
22	U15CS092	KISHORE VENKAT	
23	U15CS093	KM AYUSHI JAISWAL	
24	U15CS094	KOLUKULURI ADITHYA RAGHAV VARMA	
25	U15CS095	KONATALA PUSHPA	
26	U15CS096	KONDURU PREM KUMAR	
27	U15CS097	KONGARA KIRAN KUMAR	
28	U15CS098	KOPPA SEKHAR SAI VISWAM	
29	U15CS099	KOTHAPALLI ARYAN VARMA	
30	U15CS100	KOTIPALLI SRI SAI SURYA PRASANTH	

31	U15CS101	KOTNANI KRISHNA VAMSI	
32	U15CS102	KRISHNA KUMAR YADAV	
33	U15CS103	KUMMETA SAI VAMSI KRISHNA REDDY	

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	(i)	Have done p	art of this course ea	rlier			1	10		
	(ii)	Has adequate prior exposure to the prerequisites								
	(iii)	Had to pickup relevant additional topics through concurrent study 425								
	(iv)	Have no exp	osure to the background	ound material				RO		
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		expectations for taking the course by the student are:								
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3,	Prepa	ration for the course by the stu	dent:							
	(i)	Have done part of this course earlier								
	(ii)	Has adequate prior exposure to the prerequisites								
	(iii)	Had to pickup relevant additio	nal topics through	concurrent	study	46	25			
	(iv)	Have no exposure to the background material								
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4.		The expectations for taking the course by the student are: (a) Enhance by skill base in the area of specializations								
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3. Preparation for the course by the student:									
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Bharath UNIVERSITY BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH (Declared as Deemed-to-Le-University, urs 3 of the UGC Act, 1956)

CERTIFICATE OF PARTICIPATION



Mr. THULASIRAM

For actively participating in the value added course "IBM AI Enterprise Workflow Specialization" Conducted by School of Computing, BIHER from 28-05-2020 to 09.06.2020.

Cavalal Course Coordinator

Head of the Department

Director



Bharath





BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY

Requisition Letter

Date:03.08.2020

From
Dr. K.P.Kaliyamurthie,
Professor & Head,
Department of CSE,
Bharath Institute of Higher Education and Research,
Chennai

To
The Dean Engineering,
Bharath Institute of Higher Education and Research,
Chennai

Respected sir

Subject: Request of Permission to conduct a value-added course on "Short term course on Fuzzy Sets And its Application" (online) -Reg

With reference to above subject, I would like to bring to your kind notice that, our department interested to organize value added course on "Short term course on Fuzzy Sets And its Application" in our campus premises on 11.08.2020, students would be participating in this course. We request you kindly to give permission to organize this event.

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

Submitted to Principal for approval to organize this value-added course.

HOD

DEAN ENGINEERING

DEAN (Engineering)

Bharath Institute of Science & Technology
BHARATH INSTITUTE OF HIGHER EDUCATION & RESEARCH
(Declared as Deemed to be University U/S 3 of UGC Act. 1956)

Selaiyur, Chennai-600 073.



CIRCULAR

05.08.2020

The school of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on **Short term course on Fuzzy Sets And its Application** for the benefit of students. This course is scheduled from 11.08.2020 to 18.08.2020. 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. Rayabhushanam	Professor
2	MAS. C. Anwadha	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 UIS 3 Of USC Act, 1956) Chennai - 600 073, INDIA

CERTIFICATE COURSE ON Short term course on Fuzzy Sets And its Application

Date of Introduction of the Course: 03.09.2020

COURSE SYLLABUS

1. Introduction and Fuzzy Sets Theory

Fuzzy set theory permits membership function valued

2. Membership Functions

Fuzzy sets theory is an extension of classical set theory

3. Set Theoretic Operations

The symbol U is employed to denote the union of two sets. Thus, the set A U B-read "A union B" or "the union.

4. Fuzzy Arithmetic

Explains the communication of statistical results correctly.

5. Fuzzy Relations

A fuzzy relation is the Cartesian product of mathematical fuzzy sets.

6. Fuzzy Inference Systems I

Fuzzy Inference System is the key unit of a fuzzy logic system having decision making as its primary work. It uses the "IF...THEN" rules along with connectors...

7. Fuzzy Inference Systems II

Fuzzy inference systems, input values are fuzzified by finding the corresponding degree of membership in both the UMFs and LMFs from the rule

8 Wang and Mendel Model

The Wang-Mendel (WM) modelling method is capable of extracting fuzzy rules from data directly without any prior knowledge

9. TSK Model

We propose to generalize TSK fuzzy model applying nonlinear functions in the rule consequences.

10. Fusiliers and Defuzzifiers

Fuzzification is the process of converting a clear input to a fuzzy value. It converts a clear point price of the process state variable

11 ANFIS Architecture

Inference system corresponds to a set of fuzzy IF-THEN rules that have learning capability to approximate nonlinear functions

12. Fuzzy Systems and Machine Learning

Fuzzy logic is used in Natural language processing and various intensive applications.

COURSE OBJECTIVES

To learn and analyse and visualize data in Understand the concept of fuzziness involved in various systems and fuzzy set theory. Specifically, the course has the following objectives:

Students will learn

- Understanding Fuzzy Inference Systems I
- 2. Understanding Fuzzy Inference Systems II.
- 3. Fuzzy Relations
- 4. Create Set Theoretic Operations
- 5. Fuzzy logic system is capable of providing the most effective solution to complex issues
- 6. Fuzzy system helps in dealing engineering uncertainties.

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, 1950,
Chennal - 600 072, INDIA

11	17-08-2020(FN)	Fusiliers and Defuzzifiers Fuzzification is the process of converting a clear input to a fuzzy value. It converts a clear point price of the process state variable		
12 18-08-2020 (FN)		- Land Control of the		
13	18-08-2020 (FN)	Fuzzy Systems and Machine Learning Fuzzy logic is used in Natural language processing and various intensive applications.		

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Department Of Computer Science & Engg.,
Bharath Institute Of Higher Education & Research
(Declared as Deemed to be University 1//3 2 Of 1/30 Act, 1969)
Chemai - 601, 332, 1/10/4



CERTIFICATE COURSE Short term course on Fuzzy Sets And its Application

Date of Introduction of the Course: 03.09.2020

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	11-08-2020(FN)	Introduction and Fuzzy Sets Theory Fuzzy set theory permits membership function valued
2	12-08-2020 (FN)	Membership Functions Fuzzy sets theory is an extension of classical set theory
3	12-08-2020 (FN)	Set Theoretic Operation The symbol U is employed to denote the union of two sets. Thus, the set A U B—read "A union B" or "the union.
4	13-08-2020 (FN)	Fuzzy Arithmetic Explains the communication of statistical results correctly.
5	13-08-2020 (FN)	Fuzzy Relations A fuzzy relation is the Cartesian product of mathematical fuzzy sets.
6	14-08-2020 (FN)	Fuzzy Inference Systems I Fuzzy Inference System is the key unit of a fuzzy logic system having decision making as its primary work. It uses the "IFTHEN" rules along with connectors
7,8	15-08-2020 (FN&AN)	Fuzzy Inference Systems II Fuzzy inference systems, input values are fuzzified by finding the corresponding degree of membership in both the UMFs and LMFs from the rule
9	17-08-2020 (FN)	Wang and Mendel Model The Wang-Mendel (WM) modelling method is capable of extracting fuzzy rules from data directly without any prior knowledge.
10	17-08-2020 (FN)	TSK Model Generalize TSK fuzzy model applying nonlinear functions in the rule consequences.

11	17-08-2020 (FN)	Fusiliers and Defuzzifiers Fuzzification is the process of converting a clear input to a fuzzy value. It converts a clear point price of the process state variable
12	18-08-2020 (FN)	ANFIS Architecture Inference system corresponds to a set of fuzzy IF— THEN rules that have learning capability to approximate nonlinear functions
13	18-08-2020 (FN)	Fuzzy Systems and Machine Learning Fuzzy logic is used in Natural language processing and various intensive applications.

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Department Of Computer Science & Engg.,
Bharath Institute Of Higher Education & Research
(Declared as Deemed to be University 1//3 2 Of 1/30 Act, 1969)
Chemai - 601, 332, 1/10/4



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING Date of Introduction of the Course: 03.09.2020

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	Introduction to	Short term course on fuzzy Sets And its Applications					
	- PONO	NAME OF THE CANDIDIO					
S. No		CHANDRA KANT CHOUDHARY					
1	U15CS032	CHAPPIDI LAKSHMIKANTH REDDY					
2	U15CS034	THE PRATHYUSHA					
3	U15CS035	CHINTAGINJALA VENKATA SRI SAI SRAVIA					
4	U15CS036	DE A SANNA KUMAK					
5	U15CS037	CHOWDHARY PRASARUTTE CHUNDI VENKATA SESHASAI RAMANAPATANJALI					
6	U15CS038	TILLA SAI KISHORE					
7	U15CS039	N S HRUDAY BHARADWAJ					
8	U15CS040	DADAM CHAITHRA					
9	U15CS040	DEEPAK KUMAR SINGH					
10	U15CS042	DILLIGANESH V					
11	U15CS042	DIVAKAR M					
12	U15CS044	DIVYA VANI T					
13	U15CS045	DODDI PUJITHA					
14	U15CS015	ARYAN SAHU					
15	U15CS047	DUPUGUNTLA BHANU SIVA KASINADH					
16	U15CS048	GANDLUR REDDY GREESHMA					
17	U15CS049	GANESH BAG					
18	U15CS050	GANGARAJU RAHUL					
19	U15CS051	GANGARAPU UKESH					
20	U15CS052	GANGU BHAGYA					
21		GLADSON J					
22		GOLI SUDEEP KRISHNA					
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HEAD OF DEPARTMENT

Department of Computer Science & Engg.,
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Chennal - 500 073, INDIA

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3.	Prepa	Preparation for the course by the student:											
	(i)	Have done par	t of this course	earlier			No						
	(ii)	Has adequate prior exposure to the prerequisites											
	(iii)	Had to pickup relevant additional topics through concurrent study YCS											
	(iv)	iv) Have no exposure to the background material											
4.	The ex	The expectations for taking the course by the student are:											
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	(b)	Get exposed to	a relevant sub	ject		No							
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	(e)	Complete Cou	rse requiremen	ts		No							
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Department of Computer Science & Engg.,
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I.	Inform	ation on the	Respondent: (7	ick (√) App	propriate	y)						
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	0-20		20-40	40-00 00-80 0 80-100								
2.	Numbe	Number of hours per week spent on the course (Other than lecture hours)										
	0-2	T	2-4		4-6	T		6-8		8-10		
3.	Preparation for the course by the student:											
	(i)	Have done part of this course earlier										
	(ii)		te prior exposure		11.00				No			
	(iii)	140	cup relevant addi			concurren	t study		20			
	(iv)	Have no ex	posure to the bac	ckground m	aterial				No			
4.	The ex	pectations fo	or taking the co	irse by the	student a	re:						
	(a)	Enhance by	skill base in the	area of spe	cialization	s			Yes			
	(b)	Get expose	d to a relevant su	ıbject					Yes			
	(c)	Curiosity							No			
	(d)	Better Emp	loyment Opport	unity	70.77.2				Yes			
	(e)	Complete (Course requireme	ents					No			
	(f)	To Improve	CGPA						No			
Abou	t the Ins	tructor: Inf	ormation on the	Responder	t: (Tick (√) Appro	priately	y)				
					A	В		C	D		E	
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3.	Clarity	of expression										
4.		f preparation		-		~						
5.		f interaction										
6.		ibility outside										
7.	Others	(please speci	fy	·								
A: E	xcellent		B: Very Good	C:	Good		D: Sa	atisfactor	ry V	E: Poor		

HEAD OF THE DEPARTMENT

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Dunartment Of Computer Science & Engg..

Bharath Institute Of Sigher Education & Research
(Declared as Deemed to be University U/S 3 Of UGC Act, 1955)

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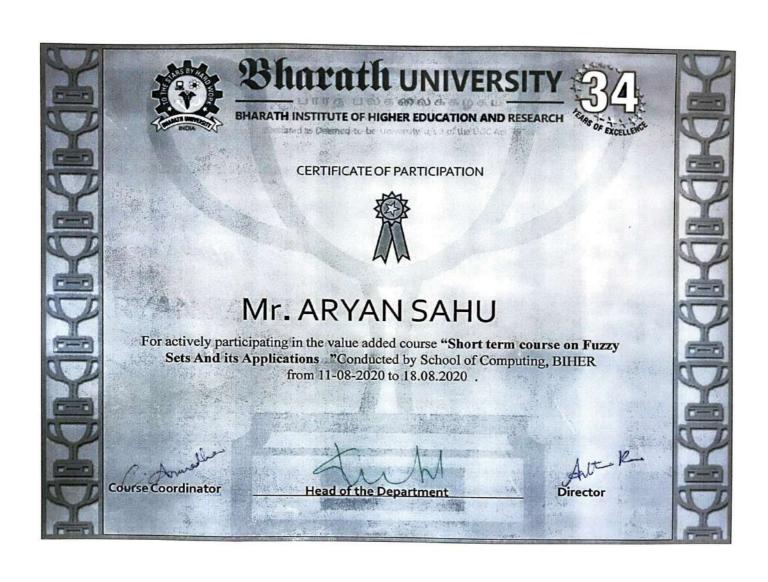
Academic Year 2020-2021												
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Cour	se Numb	er										
Cour	se Title		Short	term c	ourse on Fi	zzy Sets A	nd its Applica	tion				
Num	ber of Cr	edits										
Туре	of Cours	e Regu	lar		Electiv	e		Add-on				
l.	Inform	ation on th	e Respondent: (7	Tick (√)	Appropria	tely)						
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	0-20		20-40		40	60-80			80-100			
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	0-2		2-4		4-6		6-8		8-10			
3.	3. Preparation for the course by the student:											
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	(ii)	Has adequ	ate prior exposur	exposure to the prerequisites								
	(iii)	Had to pic	kup relevant addi	tional t	opics throug	h concurrent	study	ye				
	(iv)	Have no e	exposure to the bac	ckgrour	nd material			No				
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4.			for taking the co	-2								
	(a) (b)	SCIENCES CONTRACTOR	by skill base in the sed to a relevant su		specializat	ons		4				
	(c)	Curiosity	eu to a relevant st	abject				Ye	_			
	(d)	The second of th	ployment Opport	mity				~	73:5			
	(e)		Course requireme						10			
	(f)	To Improv		No								
Abou	100000		formation on the	Respo	ndent: (Tic	k (√) Approi	oriately)		20			
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3.		of expression		_	/		+	1				
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5.		f interaction			/			1				
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7.	Others (please spec	ify									
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A: E	xcellent		B: Very Good		C: Good		D: Satisfacto	ory V	E: Poor	r _		

HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT

Department Of Computer Science & Engg.,
Bharath Institute Of Higher Education & Research

(Occlared as Deemed to be University 418.3 Gt university





Requisition letter

Date: 1.08.2020

From

Dr.Kaliyamurthy M.E.,PH.D,

Professor & Head,

Department of CSE,

Bharath Institute of Higher Education and Research,

Chennai.

To

Pro.VC Academics,

Bharath Institute of Higher Education and Research,

Chennai.

Respected Sir

Sub: Request of permission to conduct a value – added course on "Google Android Application Development Training" (online) - Reg

With reference to above subject, I would like to bring to your kind notice that, our department interested to organize value added course "Google Android Application Development Training" in our campus premises on 08.08.2020, students would be participating in this course. We request you kindly to give permission to organize this event.

Timing: 9:30 AM to 12:30 PM (FN) and 1:30 PM to 4:30 PM (AN)

Submitted to principal for approval to organize this value-added course.

HOD

Bharath Institute of Science & Technology
BHARATH INSTITUTE OF HIGHER EDUCATION & RESEARCH
(Declared as Deemed to be University U/S 3 of UGC Act. 1956)
Selaiyur, Chennai-600 073.



CIRCULAR

4.8.2020

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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
9.	Mus-cor. Karitha	Assistant Ducturson

Head of Department

Chennal-S00 073 MILIA

Department of Computer Sci

To

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CERTIFICATE COURSE ON GOOGLE ANDROID APPLICATION DEVELOPMENT TRAINING

Date of Introduction of the Course: 12.09.2020

COURSE SYLLABUS

1. Creating Project Sunshine

To learn how to create and run a simple Android app, create simple layouts for Android, learn about the Android Studio IDE

2. Loading Data from the Internet

To connect to the Internet and communicate with web APIs, learn about threading and how to make requests without slowing down your app, learn how to add menus to your app

3. Recycler View

To learn about the components that convert a list of data into visual UI elements

4. Intents

To learn the difference between Explicit and Implicit Intents, learn how to navigate inside your apps using intents. To learn how to create Intents that apps outside your control can respond.

5. The Application Lifecycle

To understand the phases of the Android application lifecycle, learn how to persist data between orientation and other changes

6. Preferences

To allow users to customize some aspects of your app Consider when to omit or add a preference

7. Content Providers

To learn how Content Providers provide an interface to share data, consume data from an already existing Content Provider.

8. Android Architecture Components

To learn how to use Room, LiveData, ViewModel and Lifecycle components, understand how architecture components can help you build robust and efficient apps

9. Background Tasks

To run jobs in the background of an app and create notifications and schedule long-running background processes

10. Completing the UI

To build a well-organized, accessible UI for your app, try different layouts, views, viewgroups, and methods of databinding, design your UI for users who speak different languages

11. Polishing the UI

To add visual polish to your apps with different layouts, fonts, and colors, use design principles to create apps that look great across multiple form factors

COURSE OBJECTIVES

This course blends theory and practice to help you build great apps the right way. In this course, you'll work with instructors step-by-step to build a cloud-connected Android app, and learn best practices of mobile development, and Android development in particular.

Specifically, the course has the following objectives:

Students will learn

- 1. Understanding data loading.
- 2. Understanding Recycler view.
- 3. Analyse and visualize data in application life cycle.
- 4. Create reproducible data analysis reports.
- 5. Run jobs in the background of an app.
- 6. Create apps that look great across multiple form factors.

COURSE COORDINATOR

HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT
Department of Computer Scil.
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CERTIFICATE COURSE ON GOOGLE ANDROID APPLICATION DEVELOPMENT TRAINING

Date of Introduction of the Course: 12.09.2020

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	08-08-2020(FN)	1. Creating Project Sunshine To learn how to create and run a simple Android app, create simple layouts for Android, learn about the Android Studio IDE
2	10-08-2020 (FN)	2. Loading Data from the Internet To connect to the Internet and communicate with web APIs, learn about threading and how to make requests without slowing down your app, learn how to add menus to your app
3	10-08-2020 (FN)	3. Recycler View To learn about the components that convert a list of data into visual UI elements
4, 5	11-08-2020 (FN & AN)	4. Intents To learn the difference between Explicit and Implicit Intents, learn how to navigate inside your apps using intents.
6	12-08-2020 (FN)	5. Intents To learn how to create Intents that apps outside your control can respond.
7	13-08-2020 (FN)	6. The Application Lifecycle To understand the phases of the Android application lifecycle, learn how to persist data between orientation and other changes
8	14-08-2020 (FN)	7. Preferences To allow users to customize some aspects of your app Consider when to omit or add a preference
9	15-08-2020 (FN)	8. Content Providers To learn how Content Providers provide an interface to share data, consume data from an already existing Content Provider.
10	17-08-2020 (AN)	9. Android Architecture Components To learn how to use Room, LiveData, ViewModel and Lifecycle components, understand how architecture components can help you build robust and efficient apps
11, 12	18-08-2020 (FN)	10. Background Tasks To run jobs in the background of an app

		Create notifications and schedule long-running background processes					
13	18-08-2020 (AN)						
14	19-08-2020 (FN)	12. Polishing the UI To add visual polish to your apps with different layouts fonts, and colors, use design principles to create apps that look great across multiple form factors					

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Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

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

Asia National No. E9.52000 - U.3 Ministry of Human Resource Development, Govt. of India, dated 4" July 2002)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING Date of Introduction of the Course: 12.09.2020 **B.Tech Computer Science and Engineering** Google Android Application Development Training NAME OF THE CANDIDATE **REG.NO** S. No ABHIJEET KUMAR U15CS001 U15CS002 ABHIJIT KUMAR GUPTA 2 U15CS003 ABHISHEK KUMAR SINGH 3 ALLU SAI SIVA PRIYANKA NAIDU 4 U15CS004 AMBIKE KUMAR SINGH 5 U15CS005 U15CS006 **ANBUMANIS** 6 7 U15CS007 ANJAR ALI ANKAM MANJUNATH 8 U15CS008 ANNADI DHANUSH 9 U15CS009 ANNAVARAPU DIVYA 10 U15CS010 ANUMOLU YESWANTH U15CS011 11 ARAVAPALLI SIVA VINAYA 12 U15CS012 ARAVINDHAN K R 13 U15CS013 ARVIND KUMAR YADAV U15CS014 14 **ARYAN SAHU** U15CS015 15 ASHISH AGARWAL 16 U15CS016 ASHISH RANJAN 17 U15CS017 ATTANTI RAVIKANTH U15CS018 18 BANAVATH SUNIL NAIK U15CS019 19 BANDARU RAMESH U15CS020 20 BATTA SIVA PRASAD U15CS021 21 BHARATH K 22 U15CS022 U15CS023 BHARATHI V 23 BIKKI KUMAR SHA 24 U15CS024 25 U15CS025 BINGEWAR SAISHARAN 26 BIRADAVOLU SUCHARITHA U15CS026 27 U15CS027 BODA AKHIL WESLEY 28 U15CS028 **BONALA SRIDHAR RAO** BRYAN STEVE PUSHPARAJ I 29 U15CS029 30 U15CS030 CHAKKA KSHITHIJA CHAMARTHI LAKSHMI NARAYANA AVINASH U15CS031 31 CHANDRA KANT CHOUDHARY 32 U15CS032 CHAPPIDI LAKSHMIKANTH REDDY 33 U15CS033

34	U15CS034	CHIDIPOTHU PRATHYUSHA
35	U15CS035	CHINTAGINJALA VENKATA SRI SAI SRAVYA
36	U15CS036	CHOWDHARY PRASANNA KUMAR
37	U15CS037	CHUNDI VENKATA SESHASAI RAMANAPATANJALI
38	U15CS038	CILLA SAI KISHORE
39	U15CS039	D N S HRUDAY BHARADWAJ
40	U15CS040	DADAM CHAITHRA
41	U15CS041	DEEPAK KUMAR SINGH
42	U15CS042	DILLIGANESH V
43	U15CS043	DIVAKAR M
44	U15CS044	DIVYA VANI T
45	U15CS045	DODDI PUJITHA
46	U15CS046	DOOLIGANTI AKHIL REDDY
47	U15CS047	DUPUGUNTLA BHANU SIVA KASINADH
48	U15CS048	GANDLUR REDDY GREESHMA
49	U15CS049	GANESH BAG
50	U15CS050	GANGARAJU RAHUL
51	U15CS051	GANGARAPU UKESH
52	U15CS052	GANGU BHAGYA
53	U15CS053	GLADSON J
54	U15CS054	GOLI SUDEEP KRISHNA
55	U15CS055	GOLLAPUDI KALYAN KUMAR
56	U15CS056	GORRE THIRUPATHI REDDY
57	U15CS057	GUJJETI MAHESH

Head of the Department

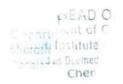
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Acad	emic Yea	ar	2020 -	2021								
Term												
Cour	se Numb	er										
Cour	se Title		Goog	le And	lroid Applic	cation Dev	elopment Traini	ng				
Num	ber of Cr	edits								/		
Type	of Cours	e Regu	lar		Electiv	/e		Add-on		/		
			•				9					
I.	Inform	ation on th	e Respondent: (Tick (√) Appropri	ately)						
	. Percentage of classes attended											
1.	0-20	tage of clas	20-40		40	-60	60-80		80-100			
	0-20		20-10									
2.	Numbe	umber of hours per week spent on the course (Other than lecture hours)										
	0-2				4-	6	6-8		8-10			
										-		
3.	Prepar	ation for th	e course by the	tudent	:							
	(i)	Have done part of this course earlier NO										
	(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.		ne expectations for taking the course by the student are:										
	(a)	Enhance by skill base in the area of specializations										
	(b)		ed to a relevant si	ubject			y	er				
	(c)	Curiosity					~	\mathscr{O}				
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Abou	t the Ins	tructor: In	formation on the	Respo						_		
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7.	Others	(please spec	aty			/						
A: E	xcellent		B: Very Good	1	C: Good		D: Satisfactor	у	E: Poor	1		

HEAD OF THE DEPARTMENT

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Acad	emic Yea	r	2020 - 2	2020 - 2021								
Term												
Cour	se Numbe	er										
Cour	se Title		Google	Android App	plication	Develo	opment Trai	ning				
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		•		· ·								
I.	Inform	ation on the Res	pondent: (T	ick (√) Appro	priately)							
1.	Percent	age of classes at	tended						4			
•	0-20	lage of classes at	20-40						80-100			
			20 10		10 00					1		
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	0-2			4-6		6-8		8-10				
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3.												
	(i)							yes				
	(ii)	Has adequate prior exposure to the prerequisites										
	(iii)	Had to pickup relevant additional topics through concurrent study										
	(iv)	Have no exposi	ure to the bac	ckground material								
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	(c)	Curiosity						1				
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	(i)	Have done part		87-8181-8-8189			NO				
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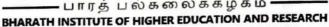
HEAD OF THE DEPARTMENT

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(Declared as Deemed-to-be-University, u/s 3 of the UGC Act, 1956)





Mr. GANESH BAG

For actively participating in the value added course "Google Android Application Development Training"Conducted by School of Computing, BIHER from 08-08-2020 to 19.08.2020.

Course Coordinator

Head of the Department

Director



Requisition letter

Date: 1.08.2020

From

Dr.Kaliyamurthy M.E.,PH.D,

Professor & Head,

Department of CSE,

Bharath Institute of Higher Education and Research,

Chennai.

To

Pro.VC Academics,

Bharath Institute of Higher Education and Research,

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Respected Sir

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Selaiyur, Chennai-600 073.



CIRCULAR

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1.	Dr. C. Nalini	Professor
9.	Mus-cor. Karitha	Assistant Ducturson

Head of Department

Chennal-600 073 MILIA

Department of Computer Sci

To

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CERTIFICATE COURSE ON GOOGLE ANDROID APPLICATION DEVELOPMENT TRAINING

Date of Introduction of the Course: 12.09.2020

COURSE SYLLABUS

1. Creating Project Sunshine

To learn how to create and run a simple Android app, create simple layouts for Android, learn about the Android Studio IDE

2. Loading Data from the Internet

To connect to the Internet and communicate with web APIs, learn about threading and how to make requests without slowing down your app, learn how to add menus to your app

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- 3. Analyse and visualize data in application life cycle.
- 4. Create reproducible data analysis reports.
- 5. Run jobs in the background of an app.
- 6. Create apps that look great across multiple form factors.

COURSE COORDINATOR

HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT
Department of Computer Scil.
Sharath labilitate of the art Education of General to be a strong 133 of the Chemon-600 073, INDIA



CERTIFICATE COURSE ON GOOGLE ANDROID APPLICATION DEVELOPMENT TRAINING

Date of Introduction of the Course: 12.09.2020

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	08-08-2020(FN)	1. Creating Project Sunshine To learn how to create and run a simple Android app, create simple layouts for Android, learn about the Android Studio IDE
2	10-08-2020 (FN)	2. Loading Data from the Internet To connect to the Internet and communicate with web APIs, learn about threading and how to make requests without slowing down your app, learn how to add menus to your app
3	10-08-2020 (FN)	3. Recycler View To learn about the components that convert a list of data into visual UI elements
4, 5	11-08-2020 (FN & AN)	4. Intents To learn the difference between Explicit and Implicit Intents, learn how to navigate inside your apps using intents.
6	12-08-2020 (FN)	5. Intents To learn how to create Intents that apps outside your control can respond.
7	13-08-2020 (FN)	6. The Application Lifecycle To understand the phases of the Android application lifecycle, learn how to persist data between orientation and other changes
8	14-08-2020 (FN)	7. Preferences To allow users to customize some aspects of your app Consider when to omit or add a preference
9	15-08-2020 (FN)	8. Content Providers To learn how Content Providers provide an interface to share data, consume data from an already existing Content Provider.
10	17-08-2020 (AN)	9. Android Architecture Components To learn how to use Room, LiveData, ViewModel and Lifecycle components, understand how architecture components can help you build robust and efficient apps
11, 12	18-08-2020 (FN)	10. Background Tasks To run jobs in the background of an app

		Create notifications and schedule long-running background processes				
13	18-08-2020 (AN)	11. Completing the UI To build a well-organized, accessible UI for your app, try different layouts, views, viewgroups, and methods of databinding, design your UI for users who speak different languages				
14	19-08-2020 (FN)	12. Polishing the UI To add visual polish to your apps with different layouts, fonts, and colors, use design principles to create apps that look great across multiple form factors				

COURSE COORDINATOR

HEAD OF THE DEPARTMENT

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INSTITUTE OF HIGHER EDUCATION AND RESEARCH (Dectared as Deemed-to-be University under section 3 of UGC Act, 1956) (Vide Nolification No. F9-5/2000 - U.3, Ministry of Human Resource Development, Govl. of India, dated 4" July 2002)

	DEPAR	TMENT OF COMPUTER SCIENCE AND ENGINEERING	
	D	ate of Introduction of the Course: 12.09.2020	
		B.Tech Computer Science and Engineering	
	God	ogle Android Application Development Training	
S. No	REG.NO	NAME OF THE CANDIDATE	
1	U15CS001	ABHIJEET KUMAR	\Box
2	U15CS002	ABHIJIT KUMAR GUPTA	_
3	U15CS003	ABHISHEK KUMAR SINGH	_
4	U15CS004	ALLU SAI SIVA PRIYANKA NAIDU	
5	U15CS005	AMBIKE KUMAR SINGH	
6	U15CS006	ANBUMANI S	
7	U15CS007	ANJAR ALI	
8	U15CS008	ANKAM MANJUNATH	
9	U15CS009	ANNADI DHANUSH	
10	U15CS010	ANNAVARAPU DIVYA	
11	U15CS011	ANUMOLU YESWANTH	
12	U15CS012	ARAVAPALLI SIVA VINAYA	
13	U15CS013	ARAVINDHAN K R	
14	U15CS014	ARVIND KUMAR YADAV	
15	U15CS015	ARYAN SAHU	
16	U15CS016	ASHISH AGARWAL	
17	U15CS017	ASHISH RANJAN	
18	U15CS018	ATTANTI RAVIKANTH	
19	U15CS019	BANAVATH SUNIL NAIK	
20	U15CS020	BANDARU RAMESH	
21	U15CS021	BATTA SIVA PRASAD	
22	U15CS022	BHARATH K	
23	U15CS023	BHARATHI V	
24	U15CS024	BIKKI KUMAR SHA	
25	U15CS025	BINGEWAR SAISHARAN	
26	U15CS026	BIRADAVOLU SUCHARITHA	
27	U15CS027	BODA AKHIL WESLEY	
28	U15CS028	BONALA SRIDHAR RAO	
29	U15CS029	BRYAN STEVE PUSHPARAJ I	
30	U15CS030	CHAKKA KSHITHIJA	
31	U15CS031	CHAMARTHI LAKSHMI NARAYANA AVINASH	
32	U15CS032	CHANDRA KANT CHOUDHARY	_
33	U15CS033	CHAPPIDI LAKSHMIKANTH REDDY	_

34	U15CS034	CHIDIPOTHU PRATHYUSHA
35	U15CS035	CHINTAGINJALA VENKATA SRI SAI SRAVYA
36	U15CS036	CHOWDHARY PRASANNA KUMAR
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46	U15CS046	DOOLIGANTI AKHIL REDDY
47	U15CS047	DUPUGUNTLA BHANU SIVA KASINADH
48	U15CS048	GANDLUR REDDY GREESHMA
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55	U15CS055	GOLLAPUDI KALYAN KUMAR
56	U15CS056	GORRE THIRUPATHI REDDY
57	U15CS057	GUJJETI MAHESH

COURSE COORDINATOR

Head of the Department

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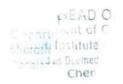
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Cour	se Title		Goog	le And	lroid Applic	cation Dev	elopment Traini	ng			
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Term											
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Type	of Course	Regular		Ele	ctive			Add-on	/		
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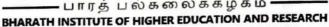
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(Declared as Deemed-to-be-University, u/s 3 of the UGC Act, 1956)





Mr. GANESH BAG

For actively participating in the value added course "Google Android Application Development Training"Conducted by School of Computing, BIHER from 08-08-2020 to 19.08.2020.

Course Coordinator

Head of the Department

Director



Requisition letter

Date: 1.08.2020

From

Dr.Kaliyamurthy M.E.,PH.D,

Professor & Head,

Department of CSE,

Bharath Institute of Higher Education and Research,

Chennai.

To

Pro.VC Academics,

Bharath Institute of Higher Education and Research,

Chennai.

Respected Sir

Sub: Request of permission to conduct a value – added course on "Google Android Application Development Training" (online) - Reg

With reference to above subject, I would like to bring to your kind notice that, our department interested to organize value added course "Google Android Application Development Training" in our campus premises on 08.08.2020, students would be participating in this course. We request you kindly to give permission to organize this event.

Timing: 9:30 AM to 12:30 PM (FN) and 1:30 PM to 4:30 PM (AN)

Submitted to principal for approval to organize this value-added course.

HOD

Bharath Institute of Science & Technology
BHARATH INSTITUTE OF HIGHER EDUCATION & RESEARCH
(Declared as Deemed to be University U/S 3 of UGC Act. 1956)
Selaiyur, Chennai-600 073.



CIRCULAR

4.8.2020

The school of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on Certificate Course of Google Android Application Development Training for the benefit of students. This course is scheduled from 08.08.2020 to 19.08.2020. 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. Nalini	Professor
9.	Mus-cor. Karitha	Assistant Ducturson

Head of Department

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Department of Computer Sci

To

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CERTIFICATE COURSE ON GOOGLE ANDROID APPLICATION DEVELOPMENT TRAINING

Date of Introduction of the Course: 12.09.2020

COURSE SYLLABUS

1. Creating Project Sunshine

To learn how to create and run a simple Android app, create simple layouts for Android, learn about the Android Studio IDE

2. Loading Data from the Internet

To connect to the Internet and communicate with web APIs, learn about threading and how to make requests without slowing down your app, learn how to add menus to your app

3. Recycler View

To learn about the components that convert a list of data into visual UI elements

4. Intents

To learn the difference between Explicit and Implicit Intents, learn how to navigate inside your apps using intents. To learn how to create Intents that apps outside your control can respond.

5. The Application Lifecycle

To understand the phases of the Android application lifecycle, learn how to persist data between orientation and other changes

6. Preferences

To allow users to customize some aspects of your app Consider when to omit or add a preference

7. Content Providers

To learn how Content Providers provide an interface to share data, consume data from an already existing Content Provider.

8. Android Architecture Components

To learn how to use Room, LiveData, ViewModel and Lifecycle components, understand how architecture components can help you build robust and efficient apps

9. Background Tasks

To run jobs in the background of an app and create notifications and schedule long-running background processes

10. Completing the UI

To build a well-organized, accessible UI for your app, try different layouts, views, viewgroups, and methods of databinding, design your UI for users who speak different languages

11. Polishing the UI

To add visual polish to your apps with different layouts, fonts, and colors, use design principles to create apps that look great across multiple form factors

COURSE OBJECTIVES

This course blends theory and practice to help you build great apps the right way. In this course, you'll work with instructors step-by-step to build a cloud-connected Android app, and learn best practices of mobile development, and Android development in particular.

Specifically, the course has the following objectives:

Students will learn

- 1. Understanding data loading.
- 2. Understanding Recycler view.
- 3. Analyse and visualize data in application life cycle.
- 4. Create reproducible data analysis reports.
- 5. Run jobs in the background of an app.
- 6. Create apps that look great across multiple form factors.

COURSE COORDINATOR

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CERTIFICATE COURSE ON GOOGLE ANDROID APPLICATION DEVELOPMENT TRAINING

Date of Introduction of the Course: 12.09.2020

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	08-08-2020(FN)	1. Creating Project Sunshine To learn how to create and run a simple Android app, create simple layouts for Android, learn about the Android Studio IDE
2	10-08-2020 (FN)	2. Loading Data from the Internet To connect to the Internet and communicate with web APIs, learn about threading and how to make requests without slowing down your app, learn how to add menus to your app
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Asia National No. E9.52000 - U.3 Ministry of Human Resource Development, Govt. of India, dated 4" July 2002)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING Date of Introduction of the Course: 12.09.2020 **B.Tech Computer Science and Engineering** Google Android Application Development Training NAME OF THE CANDIDATE **REG.NO** S. No ABHIJEET KUMAR U15CS001 U15CS002 ABHIJIT KUMAR GUPTA 2 U15CS003 ABHISHEK KUMAR SINGH 3 ALLU SAI SIVA PRIYANKA NAIDU 4 U15CS004 AMBIKE KUMAR SINGH 5 U15CS005 U15CS006 **ANBUMANIS** 6 7 U15CS007 ANJAR ALI ANKAM MANJUNATH 8 U15CS008 ANNADI DHANUSH 9 U15CS009 ANNAVARAPU DIVYA 10 U15CS010 ANUMOLU YESWANTH U15CS011 11 ARAVAPALLI SIVA VINAYA 12 U15CS012 ARAVINDHAN K R 13 U15CS013 ARVIND KUMAR YADAV U15CS014 14 **ARYAN SAHU** U15CS015 15 ASHISH AGARWAL 16 U15CS016 ASHISH RANJAN 17 U15CS017 ATTANTI RAVIKANTH U15CS018 18 BANAVATH SUNIL NAIK U15CS019 19 BANDARU RAMESH U15CS020 20 BATTA SIVA PRASAD U15CS021 21 BHARATH K 22 U15CS022 U15CS023 BHARATHI V 23 BIKKI KUMAR SHA 24 U15CS024 25 U15CS025 BINGEWAR SAISHARAN 26 BIRADAVOLU SUCHARITHA U15CS026 27 U15CS027 BODA AKHIL WESLEY 28 U15CS028 **BONALA SRIDHAR RAO** BRYAN STEVE PUSHPARAJ I 29 U15CS029 30 U15CS030 CHAKKA KSHITHIJA CHAMARTHI LAKSHMI NARAYANA AVINASH U15CS031 31 CHANDRA KANT CHOUDHARY 32 U15CS032 CHAPPIDI LAKSHMIKANTH REDDY 33 U15CS033

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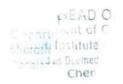
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Cour	se Title		Google	Google Android Application Development Training								
Numl	ber of Cre	edits										
Type	of Course	Regular		Ele	ctive			Add-on	/			
I.	Inform	ation on the Res	pondent: (Ti	ick (√) Appro	priately)							
1.	Percentage of classes attended											
	0-20	inge of classes at	20-40		40-60	T -	60-80		80-100	T		
			20 10		10 00					1		
2.	Numbe	r of hours per w	eek spent on	the course (C	Other th	an lectu	re hours)					
	0-2		2-4		4-6		6-8		8-10			
3.	- 7	ation for the cou										
	(i)	Have done part						yes				
	(ii)			exposure to the prerequisites								
	(iii)	Had to pickup relevant additional topics through concurrent study										
	(iv)	Have no exposi	ire to the bac	kground mater	rial			tes				
4.	The ex	pectations for ta	king the cou	rse by the stu	dent are	:		>/ •>		_		
	(a)	Enhance by ski	ll base in the	area of special	lizations			. 44)				
	(b)	Get exposed to	a relevant su	bject				ver	Ľ			
	(c)	Curiosity						1				
	(d)	Better Employs	ment Opportu	nity				Xen				
	(e)	Complete Cour	se requireme	nts		3-5-2-		Les				
	(f)	To Improve CC	GPA .					The	7			
Abou	at the Ins	tructor: Inform	ation on the	Respondent:	(Tick (√) Appro	priately)					
				A		В	С	D		E		
1.	Pace of	the Teaching/lec	ture	-								
2.	Commo	ent of the Subject	à									
3.	Clarity	of expression		/								
4.	Level	of preparation			/							
5.	Level of interaction											
6.	Access	ibility outside the	class									
7.	Others	(please specify		/								
		1	Varna Caral	10.0			T. D. C					
A: E	excellent	B:	Very Good	C: G	Door		D: Satisfa	ctory	E: Po	or		

HEAD OF THE DEPARTMENT





Aca	demic Ye	ar	2020	- 2021									
Теп	n ·												
Cou	rse Numb	per											
Cou	rse Title		Goog	le Andro	id Applic	ation Dev	elopment Trair	ning					
Nun	nber of Ci	redits								/			
Турс	e of Cours	se Regular			Electiv	e		Add-on	L				
I.	Inform	nation on the Re	spondent: (Tick (V)	Annronris	telv)							
1.		tage of classes a							_				
	0-20		20-40		40	-60	60-80		80-100				
2.	Numbe	er of hours per v	of hours per week spent on the course (Other than lecture hours)										
	0-2		2-4		4-6	5	6-8		8-10				
3.	Prenar	ation for the cou	ion for the course by the student:										
	(i)	Have done part		8783818-2469									
	(ii)	Has adequate p				s		N	1				
	(iii)	Had to pickup i					nt study	~	-Debor				
	(iv)	Have no exposi		ACCEPTANTE AND ACCEPTANT				No					
								Te	2				
4.	The ex	pectations for ta	king the co	urse by t	he student	are:							
	(a)	Enhance by ski	ll base in the	e area of s	pecializati	ons	7	Ye	ク				
	(b)	Get exposed to	a relevant s	ubject				ye	>				
	(c)	Curiosity						yes					
	(d)	Better Employr						ue					
	(e)	Complete Cour		ents				8	D				
	(f)	To Improve CO						7	w				
Abou	it the Ins	tructor: Inform	ation on the	e Respon	dent: (Tic	k (√) Appro	opriately)						
					A	В	С	D		E			
1.		the Teaching/lec	0.000			/							
2.		ent of the Subject				/							
3.		of expression				/							
4.	San Care	f preparation			/								
5.		f interaction			/								
6.		bility outside the	class										
7.	Others	(please specify			/								
A: F:	xcellent	D. 1	ery Good	1	C: Good		D. C	1					
. L. L.	Accuent	D: V	ery Good	/	C: G00d		D: Satisfact	ory	E: Po	or			

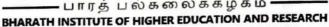
HEAD OF THE DEPARTMENT

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பாரத் பல்கலைக்கழகம்



(Declared as Deemed-to-be-University, u/s 3 of the UGC Act, 1956)





Mr. GANESH BAG

For actively participating in the value added course "Google Android Application Development Training"Conducted by School of Computing, BIHER from 08-08-2020 to 19.08.2020.

Course Coordinator

Head of the Department

Director



INSTITUTE OF HIGHER EDUCATION AND RESEARCH



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY No.173, Asharam Road, Salalyur, Chennal , T.N - 600 073.

Requisition Letter

Date: 05.08.2020

From
Dr. K.P.Kaliyamurthie,
Professor & Head,
Department of CSE,
Bharath Institute of Higher Education and Research,
Chennai

To
The Dean Engineering,
Bharath Institute of Higher Education and Research,
Chennai

Respected sir

Subject: Request of Permission to conduct a value-added course on" HAND ON TRAINING "IOT" (online) -Reg

With reference to above subject, I would like to bring to your kind notice that, our department interested to organize value added course on "HAND ON TRAINING "IOT" in our campus premises on 10.08.2020, students would be participating in this course. We request you kindly to give permission to organize this event.

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

Submitted to Principal for approval to organize this value-added course.

HOD

HEAD OF DEPARTMENT
Department Of Computer Science & Ending
Bharath Institute Of Higher Education & reserved.

(Declared as Deemed to be University to 3.4. Channai - 600 CT 2 14.7.

DEAN ENGINEERING

DEAN (Engineering)
Bharath Institute of Science & Technology
BHARATH INSTITUTE OF HIGHER EDUCATION & RESEARCH
(Declared as Deemed to be University U/S 3 of UGC Act. 1956)
Selaiyur, Chennai-600 073.



CIRCULAR

07.08.2020

The school of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on Certificate Course of Hand on Training "IOT" for the benefit of students. This course is scheduled from 10.08.2020 to 21.08.2020 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. R Kerthi keyan	Professor
2	Mr. Snidbar R	Assistant Professor

Head of Department

To

Copy to CSE

Copy to IT

HEAD OF DEPARTMENT

Department Of Computer Science & Engg.,
Bharath Institute Of Higher Education & Research
(Doclared as Deemed to be University U/S 3 CT (CV or 1355)

Chennal - 600 073 1517



CERTIFICATE COURSE ON STATISTICS WITH HAND ON TRAINING "IOT"

Date of Introduction of the Course: 12.09.2020

COURSE SYLLABUS

1.Introduction to IOT

Understanding IoT fundamentals, IOT Architecture and protocols, Various Platforms for IoT

2. Real time Examples of IoT

Overview of IoT components and IoT Communication Technologies, Challenges in IOT

3. Arduino Simulation Environment

Arduino Uno Architecture, Setup the IDE, Writing Arduino Software

4. Arduino Libraries

Basics of Embedded C programming for Arduino, Interfacing LED, push button and buzzer with Arduino, Interfacing Arduino with LCD

5. Sensor & Actuators with Arduino

Overview of Sensors working, Analog and Digital Sensors

6. Interfacing of Temperature, Humidity, Motion, Light and Gas Sensor with Arduino

Interfacing of Actuators with Arduino, Interfacing of Relay Switch and Servo Motor with Arduino

7. Basic Networking with ESP8266 WiFi module

Basics of Wireless Networking, Introduction to ESP8266 Wi-Fi Module

8. Various Wi-Fi library

Web server- introduction, installation, configuration, Posting sensor(s) data to web server NIELIT DELHI Page

9. IoT Protocols • M2M vs. IOT

Communication Protocols 6. Cloud Platforms for IOT, Virtualization concepts and Cloud Architecture

10. Cloud computing, benefits

Cloud services -- SaaS, PaaS, IaaS, Cloud providers & offerings

11.Study of IOT Cloud platforms

ThingSpeak API and MQTT

12.Interfacing ESP8266 with Web services

Brief note on Interfacing ESP8266 with Web services

COURSE OBJECTIVES

This Course focuses on hands-on IoT concepts such as sensing, actuation and communication. It covers the development of Internet of Things (IoT) prototypes—including devices for sensing, actuation, processing, and communication—to help you develop skills and experiences. The Internet of Things (IOT) is the next wave, world is going to witness.

Specifically, the course has the following objectives:

Students will learn

- 1. Describe what IoT is and how it works today
- 2. Recognise the factors that contributed to the emergence of IoT
- 3. Design and program IoT devices
- 4. Use real IoT protocols for communication
- 5. Secure the elements of an IoT device
- 6. Design an IoT device to work with a Cloud Computing infrastructure.
- 7. Transfer IoT data to the cloud and in between cloud providers
- 8. Define the infrastructure for supporting IoT deployments

COURSE COORDINATOR

HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT

Department Of Computer Science & Engg.,
Bharath Institute Of Higher Education & Research
(Declared as Deamed to be University U/S 3 Of UGC Acc.,
Change 1, 600 075 URD 14 OF COMPUTER 1

Chennal - 600 073, INDIA



CERTIFICATE COURSE ON HAND ON TRAINING "IOT"

Date of Introduction of the Course: 12.09.2020

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
CLASS	DAIL	1.Introduction to IOT
1	10-08-2020(FN)	Understanding IoT fundamentals, IOT Architecture and protocols, Various Platforms for IoT
2	11-08-2020 (FN)	2.Real time Examples of IoT
		Overview of IoT components and IoT Communication Technologies, Challenges in IOT
3	12-08-2020(FN)	3. Arduino Simulation Environment
		Arduino Uno Architecture, Setup the IDE, Writing Arduino Software
4	13-08-2020(FN)	4. Arduino Libraries
		Basics of Embedded C programming for Arduino, Interfacing LED, push button and buzzer with Arduino, Interfacing Arduino with LCD
5	14-08-2020 (FN)	5. Sensor & Actuators with Arduino
		Overview of Sensors working, Analog and Digital Sensors
6,7	15-08-20 20 (FN & AN)	6. Interfacing of Temperature, Humidity, Motion, Light and Gas Sensor with Arduino
		Interfacing of Actuators with Arduino, Interfacing of Relay Switch and Servo Motor with Arduino
		7. Basic Networking with ESP8266 WiFi module
		Basics of Wireless Networking, Introduction to ESP8266 Wi-Fi Module
8	17-08-2020 (FN)	8. Various Wi-Fi library
		Web server- introduction, installation, configuration, Posting sensor(s) data to web server NIELIT DELHI Page

9	18-08-2020 (FN)	8. Various Wi-Fi library Web server- introduction, installation, configuration, Posting sensor(s) data to web server NIELIT DELHI Page					
10	19-08-2020 (FN)	9. IoT Protocols • M2M vs. IOT Communication Protocols 6. Cloud Platforms for IOT Virtualization concepts and Cloud Architecture					
11	20-08-2020 (FN)	10. Cloud computing, benefits Cloud services — SaaS, PaaS, IaaS, Cloud providers offerings					
12	20-08-2020 (FN)	11.Study of IOT Cloud platforms ThingSpeak API and MQTT					
13	21-08-2020 (FN)	12.Interfacing ESP8266 with Web services Brief note on Interfacing ESP8266 with Web services					

O Sudber 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, 19531
Chennal - 600 073, INDIA



Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

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

Objection No. 59,52000 - U.3. Ministry of Human Resource Development, Govt. of India, dated 4" July 2002)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Date of Introduction of the Course: 12.09.2020

B.Tech Computer Science and Engineering

HAND ON TRAINING "IOT"

S. No	REG.NO	NAME OF THE CANDIDATE	
1	U15CS091	KHALYAN S N	
2	U15CS092	KISHORE VENKAT	
3	U15CS093	KM AYUSHI JAISWAL	
4	U15CS094	KOLUKULURI ADITHYA RAGHAV VARMA	
5	U15CS095	KONATALA PUSHPA	
6	U15CS096	KONDURU PREM KUMAR	
7	U15CS097	KONGARA KIRAN KUMAR	
8	U15CS098	KOPPA SEKHAR SAI VISWAM	
9	U15CS099	KOTHAPALLI ARYAN VARMA	
10	U15CS100	KOTIPALLI SRI SAI SURYA PRASANTH	
11	U15CS101	KOTNANI KRISHNA VAMSI	
12	U15CS102	KRISHNA KUMAR YADAV	
13	U15CS103	KUMMETA SAI VAMSI KRISHNA REDDY	
14	U15CS104	KUNISETTY JYOTHSNA	
15	U15CS105	LALJEE	
16	U15CS106	LINGAMPELLY SANNITH REDDY	
17	U15CS107	LOHESH WARAN S	
18	U15CS108	M SHIVA PRAKASH	
19	U15CS109	M UTTEJ	
20	U15CS110	M. DINESH REDDY	
21	U15CS111	M.YESHWITHA REDDY	
22	U15CS112	MAILE ARUN KUMAR	
23	U15CS113	MAMUNDURU BHARATH KUMAR	
24	U15CS114	MANCHALA ROHITH	
25	U15CS115	MANCHIKANTI RAJITHA	

26	U15CS117	MANOJ KUMAR R
27	U15CS118	MANUGUNTA BHARGAVI
28	U15CS119	MARRIBOYINA GOVARDHAN YADAV
29	U15CS120	MARRIPUDI KRISHNA CHAITANYA
30	U15CS121	MD MINHAZ RAZA HASHMI
31	U15CS122	MOHAMED SAJEEN N
32	U15CS123	MOHAMMAD ASLAM SHAREEF
33	U15CS124	MOHANKUMAR J
34	U15CS125	MOLAPANTI SIVA KALPANA
35	U15CS126	MOORABOINA NARESH
36	U15CS127	MUPPALLA SURENDRA
37	U15CS128	MURARI KUMAR CHAUDHARY
38	U15CS129	N SWAPNA RAAGA
39	U15CS130	NAGANNAGARI JAGADISH
40	U15CS132	NALLANALLI SATYA SANDEEP KUMAR
41	U15CS133	NALLURI AKHIL BABU
42	U15CS134	NAMBURI VIJAY KUMAR

HOD

HEAD OF DEPARTMENT

Department Of Computer Science & Engg.,
Bharath Institute Of Higher Education & Research

(Declared as Deemed to be University UIS 3 Of UGC Act, 1956)

Chennal - 500 073. INDIA

Acar	demic Yea	ir	2020-20	21								
Term	n											
Cour	rse Numb	er										
Cou	rse Title		Hand on	Hand on Training "IOT"								
Num	ber of Cr	edits										
Туре	of Cours	se Regular		Electiv	re	F	Add-on					
			,									
I.	Inform	ation on the Res	spondent: (Ti	ck (√) Appropri	ately)							
1.	Percen	itage of classes a	ttended									
1.	0-20	tage or camadon	20-40	40	-60	60-80		80-100				
	0-20		20 .0									
2.	Numbe	er of hours per v	veek spent on	the course (Oth	er than lectu	re hours)						
	0-2		2-4	4-	6	6-8		8-10	/			
	1											
3.	17	ration for the co					9.4					
	(i)	Have done par		11000000000			Yes					
	(ii)		170	to the prerequisit			No					
	(iii)	110		ional topics throu	gh concurrent	t study	No					
	(iv)	Have no expos	ure to the back	kground material			yes					
4.	The er	spectations for t	aking the cou	rse by the studen	ıt are:							
	(a)			pase in the area of specializations								
	(b)	Get exposed to	a relevant sub	oject			Ye					
	(c)	Curiosity					yes					
	(d)	Better Employ	ment Opportu	nity			N					
	(e)	Complete Cou	rse requiremen	nts			2					
	(f)	To Improve Co	GPA				2	0				
Abo	ut the In	structor: Inform	nation on the	Respondent: (Ti	ck (√) Appro	priately)						
				A	В	C	D		E			
1.	Pace o	f the Teaching/le	cture									
2.	Comm	ent of the Subjec	t		~							
3.	Clarity	y of expression		~								
4.	Level	of preparation		~								
5.	Level	of interaction		~								
6.	Acces	sibility outside th	e class	~					_			
7.	Others	s (please specify										
-		1 . / D.	Very Good	C: Good		D: Satisfacto		E: Po	aw			
A:	Excellent		very Good	C. 6000	•	D. Savistacti	"y \	12.10	1			

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 U/S Act, 1955]
Chennai - 800 073, INDIA

mber le Credits urse	Regular	Hand on	Training "IOT"								
e Credits	Regular	Hand on	Training "IOT"								
Credits	Regular	Hand on	Training "IOT"	•							
	Regular										
urse	Regular										
			Elect	ive		Add-on					
rmation	on the Respond	lent: (Tic	k (√) Appropr	iately)							
entage o	of classes attend	ed									
			4	0-60	60-80	T	80-100				
							200,100,00				
ber of h		spent on t	he course (Otl	her than lec	ture hours)						
0-2 2-4			4	-6	6-8		8-10	/			
aration	for the course h	v the stud	lent:								
						10					
Had	to pickup releva	nt addition	additional tonics through congustant study								
Have	no exposure to	the backer	round material	ign concurre	nt study	yes					
- Control of	pooute to	are backg	ound material			ye	6				
xpectati	ions for taking	the course	by the studer	nt are:							
Enha	nce by skill base	in the are	a of specializa	tions		٧	,				
Curio	osity	Yes									
Bette	r Employment C	pportunit	pportunity Yes								
				-		40	刘				
							10				
structor	: Information o	on the Res	spondent: (Tid	ek (√) Annr	onriately)		10				
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f the Tea	ching/lecture		-			D		E			
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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/6 a C. UGC AC., 15...
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Acad	demic Yes	ur	2020-2	021							
Term	1										
Cou	rse Numb	ет									
Cour	se Title		Hand o	n Training "IO	T"						
Num	ber of Cr	edits									
Туре	of Cours	e Regu	ılar	Ele	ctive		Add-on				
								•			
I.	Inform	ation on t	he Respondent: (T	ick (√) Appro	priately)						
1.	Percen	tage of cla	sses attended								
	0-20	T	20-40		40-60	60-80		80-100			
2.		er of hours	per week spent or	n the course (C	ther than lec	ture hours)					
	0-2		2-4		4-6	6-8		8-10			
3.	Dranar	ation for t	he course by the st	tudants							
٥.	(i)		ne part of this cours				•1				
	(ii)		TO SECURE OF SECURE AND A SECURE ASSESSMENT OF SECURE	posure to the prerequisites							
	(iii)			eant additional tonics through congurrant study							
	(iv)		exposure to the bac	(50)	AMO	in study	ye	1			
	(10)	Have no	exposure to the bac	kground mater	IAI		No				
4.	The ex	pectations	for taking the cou	rse by the stud	lent are:						
	(a)	Enhance	by skill base in the	area of special	izations		Yes				
	(b)	Get expo	sed to a relevant su	evant subject Yes							
	(c)	Curiosity					No)			
	(d)	Better Er	nployment Opportu	mity	No						
	(e)	Complete	Course requireme	nts			N				
	(f)	To Impro	ve CGPA					10			
Abou	it the Ins	tructor: In	nformation on the	Respondent: (Tick (√) Appr	opriately)	-				
				A	В	C	D		E		
1.	Pace of	the Teachi	ng/lecture	~							
2.	Comme	ent of the S	ubject								
3.	Clarity	of expressi	on	/		593					
4.	Level o	f preparation	on	~							
5.	Level o	f interactio	n	V							
6.	Accessi	bility outsi	de the class	V							
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4. 5	11	/	D. W C - 1	10.0		In a sec					
A: E	xcellent	\vee	B: Very Good	C: Go	ood	D: Satisfacto	ry	E: Poo	or \		

HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT
Department Of Computer Science & Engg..
Bharath Institute Of Higher Education & Research
(Doctared as Deemed to be University U/S 3 Of U/GC Act, 1956)
Chennai - 500 073, INDIA





NSTITUTE OF HIGHER EDUCATION AND RESEARCH



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY No. 173, Agharam Road, Salaiyur, Channel , T.N . 600 073.

Requisition Letter

Date: 05.08.2020

From
Dr. K.P.Kaliyamurthie,
Professor & Head,
Department of CSE,
Bharath Institute of Higher Education and Research,
Chennai

To
The Dean Engineering,
Bharath Institute of Higher Education and Research,
Chennai

Respected sir

Subject: Request of Permission to conduct a value-added course on "Data Analysis Using Excel And Spss" (online) -Reg

With reference to above subject, I would like to bring to your kind notice that, our department interested to organize value added course "Data Analysis Using Excel And Spss" -Reg in our campus premises on 10.08.2020, students would be participating in this course. We request you kindly to give permission to organize this event

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

Submitted to Principal for approval to organize this value-added course.

FIGAD GT DEPARTMENT

Department Of Corrector Defence & Engal.

Bharath Indition Of Science Societion & Followich

(Declared as Deemed to be University, Ur.S.) Of UGC Act, 1956) Chennal - 600 070, INDIA DEAN ENGINEERING

DEAN (Engineering)

Bharath Institute of Science & Technology
BHARATH INSTITUTE OF HIGHER EDUCATION & RESEARCH
(Declared as Deemed to be University U/S 3 of UGC Act. 1958)
Selaiyur, Chennai-600 073.



Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

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

CIRCULAR

07.08.2020

The school of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on **Data Analysis using Excel And Spss** for the benefit of students. This course is scheduled from 10.08.2020 to 19.08.2020. 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	Name of the Faculty	Designation
course. S.NO	Dr. C. Nalini	Professor
2	Hrs. C. Anwadha	Assistant Professor

Head of Department

To

Copy to CSE

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HEAD OF DEPARTMENT

Department of Computer Science & English Bharath Institute 21 Science and the Science & Court (Declared as Department and the Court Act, CO.)

Chemia - 6/0 / J. 1.0-1.



CERTIFICATE COURSE ON Data Analysis using Excel And Spss Date of Introduction of the Course: 12.09.2020

COURSE SYLLABUS

1. Create an Excel report

This module explains how to create a report in Excel
Filtering and Formatting Data Charts
Excel Tables
Filtering Excel Data, Formatting, Excel Data,
Create excel Charts, Filter and format data, Create charts.

2. Create an Excel Table

create data tables in Excel, Excel Data Tables, Summarizing Data

3. Pivot Tables and Pivot Charts

Create an Excel Table, Summarize Excel Data Explain what Excel Data tables are Sort, filter, and validate data, Summarize data, Format summarized data.

4. Importing Data from a CSV File

Creating a Pivot Table, Creating a Pivot Chart, Editing Pivot Tables and Pivot Charts, Describe pivot tables and how to create them, Describe the various elements of a pivot chart, Edit pivot tables and pivot charts.

5. Dashboards

Arranging Tables and Charts, Slicing Data, Data Analysis, Describe a dashboard. Filter data using a slicer, Add calculated columns to a dashboard, Find anomalies.

6. Creating Hierarchies

. Hierarchies, Time ,DataCreate a Hierarchy,Configure Time data,Create an Animated Time Chart

7. The Excel Data Model

This module explores the Excel data model and looks at ways of extending it.

8. Explore an Excel Data Model

Explain an Excel Data Model and how to use it.

9. Add Multiple Tables

Import External Data and use it.

10. Create Relationships

Link out to external data.

11.Add External Data

Etxternal data is to extend it

COURSE OBJECTIVES

To learn and analyse and visualize data in R and learn to perform frequentist and Bayesian statistical inference and modelling to understand natural phenomena and make databased decisions.

Specifically, the course has the following objectives: Students will learn

- 1. Understanding Filtering Excel Data, Formatting.
- 2. Understanding External Data.
- 3. Charts, Slicing Data, Data Analysis .
- 4. Arranging Tables and Charts, Slicing Data.
- 5. Import External Data and use it.
- 6. Excel Table, Summarize Excel Data

COURSE COORDINATOR

HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT

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



INSTITUTE OF HIGHER EDUCATION AND RESEARCH

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

CERTIFICATE COURSE Short term course on DATA ANALYSIS USING EXCEL AND SPSS

Date of Introduction of the Course: 12.09.2020

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	10-08-2020 (FN)	1. Create an Excel report Filtering and Formatting Data Charts Excel Tables Filtering Excel Data, Formatting, Excel Data, Create excel Charts, Filter and format
2	11-08-2020 (FN)	2. Create an Excel Table create data tables in Excel, Excel Data Tables, Summarizing Data
3	12-08-2020 (FN)	3. Pivot Tables and Pivot Charts Create an Excel Table, Summarize Excel Data
4	13-08-2020 (FN)	4 Importing Data from a CSV File Creating a Pivot Table, Creating a Pivot Chart, Editing
5	14-08-2020 (FN)	5 Dashboards Arranging Tables and Charts, Slicing Data, Data Analysis
6	15-08-2020 (FN)	6. Creating Hierarchies Hierarchies, Time, DataCreate a Hierarchy
7	15-08-2020 (AN)	7 The Excel Data Model Time data, Create an Animated Time Chart

8	17-08-2020 (FN)	8. Explore an Excel Data Model Excel Data Model and how to use it.
		9. Add Multiple Tables Import External Data and use it.
9	18-08-2020 (FN)	10. Create Relationships Link out to external data.
10	19-08-2020 (FN)	11.Add External Data Etxternal data is to extend it

COURSE COORDINATOR

HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT

Department Of Computer Science & Engy.,

Bharath Institute Of Higher Education & Research
(Declared as Deemed to be University U/S 3 Of UGC Act, 1956)

Chennal - 600 073, INDIA



Sharath INSTITUTE OF HIGHER EDUCATION AND RESEARCH (Declared as Deemed-to-be University under section 3 of UGC Act. 1956) (Vide Notification No. F.9-5/2000 U.3. Ministry of Human Resource Development, Govt. of India. dated 4° July 2002)

		RTMENT OF COMPUTER SCIENCE AND ENGINEERING				
		Date of Introduction of the Course: 12.09.2020				
	B.Tech Computer Science and Engineering					
		Introduction to DataAnalysis using Excel Spss				
S. No	REG.NO	NAME OF THE CANDIDATE				
1	U15CS001	ABHIJEET KUMAR				
2	U15CS002	ABHIJIT KUMAR GUPTA				
3	U15CS003	ABHISHEK KUMAR SINGH				
4	U15CS004	ALLU SAI SIVA PRIYANKA NAIDU				
5	U15CS005	AMBIKE KUMAR SINGH				
6	U15CS006	ANBUMANI S				
7	U15CS007	ANJAR ALI				
8	U15CS008	ANKAM MANJUNATH				
9	U15CS009	ANNADI DHANUSH				
10	U15CS010	ANNAVARAPU DIVYA				
11	U15CS011	ANUMOLU YESWANTH				
12	U15CS012	ARAVAPALLI SIVA VINAYA				
13	U15CS013	ARAVINDHAN K R				
14	U15CS014	ARVIND KUMAR YADAV				
15	U15CS015	ARYAN SAHU				
16	U15CS016	ASHISH AGARWAL				
17	U15CS017	ASHISH RANJAN				
18	U15CS018	ATTANTI RAVIKANTH				
19	U15CS019	BANAVATH SUNIL NAIK				
20	U15CS020	BANDARU RAMESH				
21	U15CS021	BATTA SIVA PRASAD				
22	U15CS022	BHARATH K				
23	U15CS023	BHARATHI V				
24	U15CS024	BIKKI KUMAR SHA				
25	U15CS025	BINGEWAR SAISHARAN				
26	U15CS026	BIRADAVOLU SUCHARITHA	-			
27	U15CS027	BODA AKHIL WESLEY				
28	U15CS028	BONALA SRIDHAR RAO				
29	U15CS029	BRYAN STEVE PUSHPARAJ I				
30	U15CS234	DUVVURU SUNEESH KUMAR				
31	U15CS235	ASHWIN VISHAL A				
32	U15CS236	MALKANNAGARI HARSHAVARDHAN REDDY				
33	U15CS237	BUDDI VAMSI				

34	U15CS238	VATHADI SWAMYVENKATESH	
35	U15CS239	AVINASH KUMAR	
36	U15CS240	YUGESH S	
37	U15CS030	CHAKKA KSHITHIJA	
38	U15CS031	CHAMARTHI LAKSHMI NARAYANA AVINASH	

Course Coordinator

HEAD OF DEPARTMENT
Department of Connector Science & EnglaBharath Institute Of Higher Education & Research
(Declared as Deemed to be University UIS 3 Of UGC Act, 1934)
Chennal - 600 073, INDIA

Acad	emic Ye	аг	2020-2021							
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Type	of Cour	se Regular		Elect	IVC					
1.	Inform	nation on the Respor	ident: (Tick (√) Appropr	iately)					
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2.	Numb	er of hours per week	spent on the	course (Ot	her than lect	ure hours)				
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3.	Prepa	ration for the course								
	(i)	Have done part of t				y e	8			
	(ii)	Has adequate prior exposure to the prerequisites								
	(iii)	Had to pickup relevant additional topics through concurrent study								
	(iv)	Have no exposure t	o the backgrou	und material		١	10			
4.	The e	xpectations for taking	g the course b	y the stude	nt are:					
	(a)	Enhance by skill ba	se in the area	of specializa	ations		408			
	(b)	Get exposed to a re	levant subject				408 No			
	(c)	Curiosity					20			
	(d)	Better Employment	Opportunity				Yes			
	(e)	Complete Course re	equirements				Yes			
	(f)	To Improve CGPA					'yes			
Abou	ut the In	structor: Informatio	n on the Resp	ondent: (Ti	ck (√) Appro	priately)				
				A	В	С	D		E	
1.	Pace o	f the Teaching/lecture		V						
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6.	Access	ibility outside the clas	s		/					
7.	Others	(please specify			~					
A: E	xcellent	B: Very	Good	C: Good		D: Satisfactor	ту	E: Poor		

HEAD OF THE DEPARTMENT

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Papartment St. A. A. Engr.

Ensultance College and A. Engr.

[Doctared as Deemed to be us. A. Engr. College Act, 1953.

Chennal - 600 College.

-	emic Yea	r	2020	-2021						
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1.	Percen	tage of classes	attended							
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(ii) Has adequate prior exposure to the prerequisites										
(iii) Had to nickup relevant additional tonics through consurrent study										
	(iv) Have no exposure to the background material									
4.	The ex	pectations for t	aking the co	nurse h	v the studer	it are:				
	(a)	Enhance by sk			•		· ·	CS		
	(b)	Get exposed to	a relevant	subject						
	(c)	Curiosity						Yes		
	(d)	Better Employ	ment Oppor	tunity				NO		
	(e)	Complete Cou	rse requirem	nents				yes No		
	(f)	To Improve Co	GPA					No		
Abo	ut the Ins	tructor: Inforn	nation on th	e Resp	ondent: (Tie	ck (√) Appr	opriately)	100		
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3.	Clarity	of expression								
4.	Level o	f preparation			~					
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HEAD OF THE DEPARTMENT

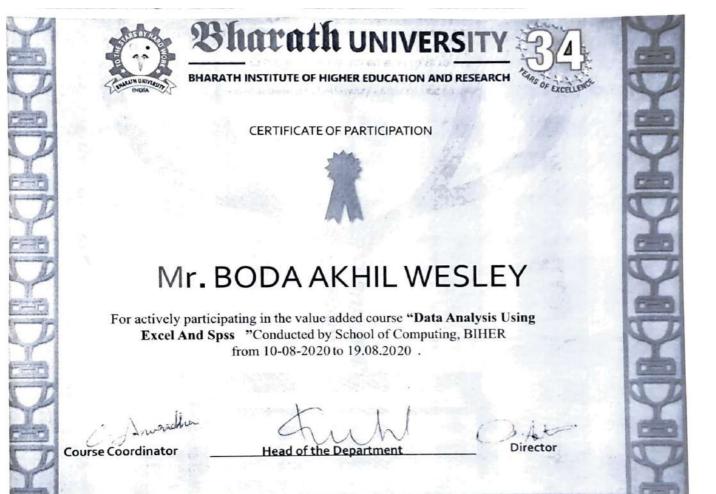
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I.	Inform	ation on the Res	pondent: (Ti	ck (√) Approp	riately)						
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3.	3. Preparation for the course by the student:										
	(i)	Have done part of this course earlier									
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	(iii)	20 10			-70	nt study	es				
	(iv)	Have no exposu	re to the back	ground materia	ı	i	70				
4.	The ex	pectations for tal	cing the cour	se by the stude	ent are:						
	(a)	Enhance by skill	l base in the a	rea of specializ	ations		NO				
	(b)	Get exposed to a	relevant sub	ant subject							
	(c)	Curiosity				Yes					
	(d)	Better Employm	ent Opportun	ity			Yes				
	(e)	Complete Cours	e requirement	ts			20				
	(f)	To Improve CGI					No				
Abou	t the Ins	tructor: Informa	tion on the F	lespondent: (T	ick (√) Appro	opriately)					
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HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT

Department 2

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Requisition Letter

Date: 02.12.2020

From Dr. K.P.Kaliyamurthie, Professor & Head, Department of CSE, Bharath Institute of Higher Education and Research. Chennai

To The Dean Engineering. Bharath Institute of Higher Education and Research, Chennai

Respected sir

Subject: Request of Permission to conduct a value-added course on "Introduction to Fuzzy Logic Tool Box" (online) -Reg

With reference to above subject, I would like to bring to your kind notice that, our department interested to organize value added course on "Introduction to Fuzzy Logic Tool Box" in our campus premises on 10.12.2020 students would be participating in this course. We request you kindly to give permission to organize this event.

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

Submitted to Principal for approval to organize this value-added course.

HEAD OF DEPARTMENT

Department Of Computer Science & Engg., Bharoth institute Of Higher Education & Research (Diclared as Deemed to be University U/S 3 Of UGC Act, 1953)

Chennal - 600 073, MOIA

DEAN ENGINEERING **DEAN** (Engineering)

Bharath Institute of Science & Technology BHARATH INSTITUTE OF HIGHER EDUCATION & RESEARCH (Declared as Deemed to be University U/S 3 of UGC Act. 1956) Selaiyur, Chennai-600 073.



INSTITUTE OF HIGHER EDUCATION AND RESEARCH

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

CIRCULAR

05.12.2020

The school of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on Introduction to Fuzzy Logic Tool Box for the benefit of students. This course is scheduled from 10.12.2020 to 19.12.2020. 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	Da. G. Michael	Professor
2	Mr.B. Sundanai	Assistant Professor

Head of Department

HEAD OF DEPARTMENT

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To

Department Of Computer Science & Engg., Bharath Institute Of Higher Education & Rosearch (Declared as Deemed to be University U/S 3 Of UGC Act. 1956)

Chennai - 600 073, INDIA



CERTIFICATE COURSE ON Training on INTRODUCTION TO FUZZY - LOGIC TOOL BOX

COURSE SYLLABUS

1. Fuzzy Logic Toolbox Product Description

Key Features, What is Different About Using Fuzzy Logic Toolbox Online.

2. Foundations of Fuzzy Logic

Fuzzy Sets , Membership Functions . Logical Operations . If-Then Rules . Types of Fuzzy Inference Systems .

3. Description of Fuzzy Logic

Why Use Fuzzy Logic, When Not to Use Fuzzy Logic, What Can Fuzzy Logic Toolbox Software do.

4. Fuzzy Modeling and Identification

About the Toolbox and the installation.

5. Fuzzy Inference Process

Fuzzify Input, Apply Fuzzy Operator, Apply Implication Method, Aggregate All Outputs, Defuzzify, Fuzzy Inference Diagram.

6. Fuzzy Logic Designer

Fuzzy Logic Toolbox Graphical User Interface Tools, The Basic Tipping Problem , The Fuzzy Logic Designer

7. Fuzzy vs. Nonfuzzy Logic

Basic Tipping Problem, Nonfuzzy Approach, Fuzzy Logic Approach

8. Build Fuzzy Systems Using Custom Functions

Build Fuzzy Inference Systems Using Custom Functions in Fuzzy Logic Designer, Specify Custom Membership Functions, Specify Custom Membership Functions.

9. Adaptive Neuro-Fuzzy Modeling

Neuro-Adaptive Learning and ANFIS, Comparison of Dnfis and Neuro-Fuzzy Designer Functionality.

10. Data Clustering

Fuzzy Clustering, Cluster Quasi-Random Data Using Fuzzy C-Means Clustering.

11. Deployment

Deploy Fuzzy Inference Systems

12. Compile and Evaluate Fuzzy Systems

Compile and Evaluate Fuzzy Systems on Windows Platforms, Compile and Evaluate Fuzzy Systems on UNIX Platforms

COURSE OBJECTIVES

This course is designed to impart knowledge about Fuzzy Logic Toolbox Product and to Compile and Evaluate Fuzzy Systems on Windows Platforms, Compile and Evaluate Fuzzy Systems on UNIX Platforms

Students will learn

- 1. Understanding Fuzzy Logic Toolbox Product
- 2. Understanding Fuzzy Modeling and Identification
- 3. Analyse Fuzzy Inference Process
- 4. Understanding Fuzzy vs. Nonfuzzy Logic
- Knowing Neuro-Fuzzy Modeling
- 6. Compile and Evaluate Fuzzy Systems on Windows Platforms as well as UNIX Platforms

B. Sand

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 Art, 1986)

Chennai - 600 073, INDIA



CERTIFICATE COURSE ON STATISTICS WITH INTRODUCTION TO FUZZY LOGIC TOOL BOX

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	10-12-2020 (FN)	1. Fuzzy Logic Toolbox Product Description Key Features, What is Different About Using Fuzzy Logic Toolbox Online.
2	11-12-2020 (FN)	2. Foundations of Fuzzy Logic Fuzzy Sets, Membership Functions. Logical Operations. If-Then Rules. Types of Fuzzy Inference Systems.
3,4	12-12-2020 (FN & AN)	3. Description of Fuzzy Logic Why Use Fuzzy Logic, When Not to Use Fuzzy Logic, What Can Fuzzy Logic Toolbox Software do. 4. Fuzzy Modeling and Identification About the Toolbox and the installation.
5	14-12-2020 (FN)	5. Fuzzy Inference Process Fuzzify Input, Apply Fuzzy Operator, Apply Implication Method, Aggregate All Outputs, Defuzzify, Fuzzy Inference Diagram.
6	15-12-2020 (FN)	6. Fuzzy Logic Designer. Fuzzy Logic Toolbox Graphical User Interface Tools, The Basic Tipping Problem, The Fuzzy Logic Designer 7. Fuzzy vs. Nonfuzzy Logic Basic Tipping Problem, Nonfuzzy Approach, Fuzzy Logic Approach

7	16-12-2020 (FN)	8. Build Fuzzy Systems Using Custom Functions Build Fuzzy Inference Systems Using Custom Functions in Fuzzy Logic Designer, Specify Custom Membership Functions, Specify Custom Membership Functions.
8	17-12-2020 (FN)	9. Adaptive Neuro-Fuzzy Modeling Neuro-Adaptive Learning and ANFIS, Comparison of Dnfis and Neuro-Fuzzy Designer Functionality.
9	18-12-2020 (FN)	10. Data Clustering Fuzzy Clustering , Cluster Quasi-Random Data Using Fuzzy C-Means Clustering .
10	19-12-2020 (FN)	11. Deployment Deploy Fuzzy Inference Systems
11	19-12-2020 (FN)	12. Compile and Evaluate Fuzzy Systems Compile and Evaluate Fuzzy Systems on Windows Platforms, Compile and Evaluate Fuzzy Systems on UNIX Platforms

B. Sund 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 U.S.1 Act, 1953)

Chennal - 600 072, Pages



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PADMAVATY V

Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

(Declared as Deemed-to-be University under section 3 of UGC Act, 1956) (Vide Netification No. F.9-5/2000 - U.3, Ministry of Human Resource Development, Govt. of India, dated 4" July 2002)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING **B.Tech Computer Science and Engineering** Introduction To Fuzzy Logic Tool Box NAME OF THE CANDIDATE S. No REG.NO 1 U15CS111 M.YESHWITHA REDDY 2 U15CS112 MAILE ARUN KUMAR 3 U15CS113 MAMUNDURU BHARATH KUMAR 4 U15CS114 MANCHALA ROHITH 5 U15CS115 MANCHIKANTI RAJITHA 6 U15CS117 MANOJ KUMAR R 7 U15CS118 MANUGUNTA BHARGAVI 8 U15CS119 MARRIBOYINA GOVARDHAN YADAV 9 MARRIPUDI KRISHNA CHAITANYA U15CS120 10 U15CS121 MD MINHAZ RAZA HASHMI 11 U15CS122 MOHAMED SAJEEN N U15CS123 MOHAMMAD ASLAM SHAREEF 12 13 U15CS124 MOHANKUMAR J 14 U15CS125 MOLAPANTI SIVA KALPANA MOORABOINA NARESH 15 U15CS126 MUPPALLA SURENDRA 16 U15CS127 MURARI KUMAR CHAUDHARY 17 U15CS128 N SWAPNA RAAGA 18 U15CS129 NAGANNAGARI JAGADISH 19 U15CS130 NALLANALLI SATYA SANDEEP KUMAR 20 U15CS132 NALLURI AKHIL BABU 21 U15CS133 22 U15CS134 NAMBURI VIJAY KUMAR NARENDULA NIREESHA U15CS135 23 U15CS136 NARESH K 24 NEDUNURI NAGA SAI SURYA SUJITH U15CS137 25 **NEELA SAI KUMAR** 26 U15CS138 NIKHIL KUMAR 27 U15CS139 NIRANJAN S U15CS140 28 NITIN SINGH U15CS141 29 U15CS142 NUKALA BHODANANDA CHARAN 30 **OLIVER S** 31 U15CS143 OMPRAKASH YADAV U15CS144 32

34	U15CS147	PALEPU SIVA MANIKANTA CHARI
35	U15CS148	PARTHIBAN S
36	U15CS174	RAMACHANDRAN J
37	U15CS175	RAMIREDDY LAKSHMAN AJAY
38	U15CS176	RAMIREDDY SURENDRA REDDY
39	U15CS177	RANGISETTY KARTHIK
40	U15CS178	RAPARTHY SAI KIRAN
41	U15CS179	RAVANAM CHAITANYA ARAVIND VISHNU VARDHAN
42	U15CS180	RAVURI SRIKANTH
43	U15CS181	RESHMA A
44	U15CS182	RICHARD WMVRAND J
45	U15CS183	S. PUNITHA

B.Sundanor COURSE CO-ORDINATOR

HEAD OF DEPARTMENT

Department Of Computer Science & Engg..

Bharath Institute Of Higher Education & Rosearch
(Declared as Deemed to be University U/S 2 Of USC Act, 1956)

Chennal - 600 073. INDIA

A	cademic Y	ear		2020	0-2021									
Te	rm													
Co	ourse Nun	nber												
Co	ourse Title			Intro	duction 7	To Fuzzy L	ogic Tool	Box						
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3.	I D													
٥.	_		for the cour											
	(i)				his course earlier									
	(ii)	Has	adequate pri	or exposu	exposure to the prerequisites									
	(iii)	Had	to pickup re	levant add	ant additional topics through concurrent study No									
	(iv)	Hav	e no exposur	e to the b	ackgrou	ınd materia	al		Yes					
4.	The ex	xpectat	ions for tak	ing the co	ourse b	v the stud	ent are:					_		
	(a)		ance by skill					1	J					
	(b)		exposed to a						les					
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	Level o	f intera	ction		-			_						
	Accessi	bility o	utside the cla	ass	-		-		_					
	Others	- Scalin Hard					-							
_			157 15											
: E	xcellent		B: Ver	y Good	~	C: G000	i		D: Sa	tisfactor	у	1	E: Poor	T

HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT
Department Contemp after Science & Endig.,
Bharath Institute Contemp after Science & Endig.,
(Declared as Deemed to be the scraft, U/S 3 Of UGC Act, 1956)
Chennal - 600 GC, 1,186.

Acad	emic Year		2020-2	021							
Term											
Cours	se Numbe	r									
Cours	se Title		Introduc	tion To Fu	ızzy Logic	Tool Box					
Numl	ber of Cre	dits									
Туре	of Course	Regular			Elective			Add-on	1		
				10 							
I.	Informa	ation on the R	espondent: (T	ick (√) A	ppropriat	ely)					
	D										
1.	3										
	0-20		20-40		40-0	50	60-80		80-100		
2.	Number	r of hours per	week spent or	n the cou	rse (Other	r than lectur	e hours)				
	0-2	T	2-4		4-6		6-8		8-10		
										l .	
3.	Prepara		ourse by the s								
	(i)	NC									
	(ii)										
	(iii) Had to pickup relevant additional topics through concurrent study										
	(iv)	(iv) Have no exposure to the background material									
4.	The expectations for taking the course by the student are:										
	(a)		kill base in the				9				
	(b)	Get exposed	to a relevant su	bject		Yes					
	(c)	Curiosity				40					
	(d)	Better Emplo	yment Opporti								
	(e)	Complete Co	ourse requireme	nts		Ye	J				
	(f)	To Improve C				Ne	9				
Abo	ut the Ins	tructor: Infor	mation on the	Respond	lent: (Tick	(√) Approp	riately)				
					A	В	C	D		E	
1.	Pace of	the Teaching/l	ecture			74					
2.	Comme	ent of the Subje	ect			•					
3.	A CONTRACTOR OF THE PARTY OF TH	of expression			~						
4.		f preparation									
5.	Visit chospical so	f interaction									
6.		ibility outside t									
7.	Others	(please specify									
A: I	Excellent	В	: Very Good		C: Good	T	D: Satisfact	ory	E: Poor		

HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT
Department of Computer States & Engg.
Bharath Institute of Higher Literation & Research
(Declared as Decimed to be University US 3 Of UC 3 Act, 1956)
Chemnal -660 370, INOIA

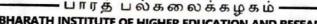
Acad	demic Yes	ır	2	2020-2021	1					
Term	1	-								
Cour	se Numb	er								
Cour	se Title		I	ntroduction	To Fuzzy Lo	ogic Tool Box				
Num	ber of Cr	edits								
Туре	of Cours	e Reg	ular		Elec	ctive		Add-on		
								Add-oil		
I.	Inform	ation on t	the Responde	nt: (Tick	(√) Approp	oriately)				
1.	Percen	toge of old	asses attende							
	0-20	tage of cis								
	0-20		20-40			40-60	60-	-80	80-100	
2.	Numbe	r of hour	s per week sp	ent on the	course (O	ther than le	ture hours)			
	0-2		2-4			4-6	6-8		0.10	
							0-0		8-10	
3.	Prepar	ation for	the course by	the stude	nt:					
	(i) Have done part of			course ear	rlier		No			
	(ii)	Has adec	quate prior exp	osure to t	he prerequi	sites	4 es			
	(iii)	Had to pickup relevant additional topics through concurrent study								
	(iv)	Have no exposure to the background material								
	-						70			
4.			for taking th							
	(a)		by skill base			zations	No			
	(b)		sed to a relev	ant subject			Ges			
	(c)	Curiosity					Yes			
	(d)	10.00	mployment Op				No			
	(e)		e Course requ	irements			Yes			
	(f)		ove CGPA				441			
Abou	t the Ins	tructor: I	nformation o	n the Resp	ondent: (7	lick (√) Appr	opriately)			
					A	В	C	D		E
1.			ing/lecture		-	-				
2.		ent of the S								
3.		of expressi				-				
4.		f preparati								
5.		finteraction			-					
6.			ide the class		0	-				
7.	Others	(please spe	cify							
A. F.	xcellent		D. V.							
1	accircii t		B: Very Go	od –	C: Good	d	D: Satisfa	ctory	E: Poor	

HEAD OF THE DEPARTMENT

(Declared 25 Love 1, 1997)



Bharath UNIVERSIT



BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH

(Declared as Deemed-to-be-University, u/s 3 of the UGC Act, 1956)





Ms. S.PUNITHA

For actively participating in the value added course "Introduction To Fuzzy Logic Tool Box" Conducted by School of Computing, BIHER from 10-12-2020 to 19-12-2020 .

B.Sud

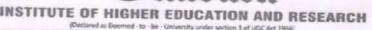
Course Coordinator

Head of the Department

Director



Bharath





BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY No.173, Agharam Road, Selalyur, Chennai, T.N. - 600 073.

Requisition Letter

Date:02.03.2021

From
Dr. K.P.Kaliyamurthie,
Professor & Head,
Department of CSE,
Bharath Institute of Higher Education and Research,
Chennai

To
The Dean Engineering,
Bharath Institute of Higher Education and Research,
Chennai

Respected sir

Subject: Request of Permission to conduct a value-added course on "Certificate Course on CRS Amadeus" (online) -Reg

With reference to above subject, I would like to bring to your kind notice that, our department interested to organize value added course on "Certificate Course on CRS Amadeus" in our campus premises on 14.03.2021, students would be participating in this course. We request you kindly to give permission to organize this event.

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

Submitted to Principal for approval to organize this value-added course.

HOB

HEAD OF DEPARTMENT



CIRCULAR

10.03.2021

The School of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on **Certificate Course on CRS Amadeus** for the benefit of students. This course is scheduled from 14.03.2021 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.Rajabhushanam	Professor
2	Mr.G Michael	Assistant Professor

Head of Department

To

Copy to CSE

Copy to IT

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 ACL. SCIENNIA - 600 073, INDIA



CERTIFICATE COURSE ON ON CRS AMADEUS

Date of Introduction of the Course: 28.03.2021

COURSE SYLLABUS

1. Mathematical Basics 1

Introduction to Machine Learning, Linear Algebra

2. Mathematical Basics 2

Describes about Probability and its basic.

3. Computational Basics

Explains Numerical computation and optimization, Introduction to Machine Learning packages

4. Linear and Logistic Regression

Describes about Bias/Variance Tradeo, Regularization, Variants of Gradient Descent, MLE, MAP, Applications

5. Neural Networks

Describes about Multilayer Perceptron, Backpropagation, Applications

6. Convolutional Neural Networks 1

Explains CNN Operations, CNN architectures

7. Convolutional Neural Networks 2

Explains Training, Transfer Learning, Applications

8. Recurrent Neural Networks

Explains RNN, LSTM, GRU, Applications

9. Classical Techniques 1

Course Coordinator

Describes about Bayesian Regression, Binary Trees, Random Forests, SVM, Naïve Bayes, Applications

COURSE OBJECTIVES

This course helps to understand Functional programming is an elegant, concise and powerful programming paradigm. This style encourages breaking up programming tasks into logical units that can be easily translated into provably correct code. Haskell brings together the best features of functional programming and is increasingly being used in the industry, both for building rapid prototypes and for actual deployment.

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, Chennai - 600 073, INDIA



INSTITUTE OF HIGHER EDUCATION AND RESEARCH

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

CERTIFICATE COURSE ON CRS AMADEUS

Date of Introduction of the Course: 28.03.2021

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,	14.3.2021	1. Mathematical Basics 1
		Introduction to Machine Learning, Linear Algebra
2	15.3.2021	2. Mathematical Basics 2
		Describes about Probability and its basic
3	16.3.2021	3. Computational Basics
		Explains Numerical computation and optimization Introduction to Machine Learning packages
4	17.3.2021	4. Linear and Logistic Regression
		Describes about Bias/Variance Tradeo, Regularization
		Variants of Gradient Descent, MLE, MAP, Applications
5	18.3.2021	5. Neural Networks
		Describes about Multilayer Perceptron, Backpropagation Applications
6	19.3.2021	6. Convolutional Neural Networks 1
		Explains CNN Operations, CNN architectures
7	21.3.2021	7. Convolutional Neural Networks 2
		Explains Training, Transfer Learning, Applications
8	22.3.2021	8. Recurrent Neural Networks
		Explains RNN, LSTM, GRU, Applications
9	23.3.2021	9. Classical Techniques 1
		Describes about Bayesian Regression, Binary Trees
		Random Forests, SVM, Naïve Bayes, Applications

Course Coordinato.

Kull

Bharath Institute of Science and Technology Department of Computer Science and Engineering

School of Computing

Certificate Course on CRS Amadeus

Registered Students Name List

S.No	RegNo	Student Name
1	U15CS046	DOOLIGANTI AKHIL REDDY
2	U15CS047	DUPUGUNTLA BHANU SIVA KASINADH
3	U15CS048	GANDLUR REDDY GREESHMA
4	U15CS049	GANESH BAG
5	U15CS050	GANGARAJU RAHUL
6	U15CS051	GANGARAPU UKESH
7	U15CS052	GANGU BHAGYA
8	U15CS053	GLADSON J
9	U15CS054	GOLI SUDEEP KRISHNA
10	U15CS055	GOLLAPUDI KALYAN KUMAR
11	U15CS056	GORRE THIRUPATHI REDDY
12	U15CS057	GUJJETI MAHESH
13	U15CS058	GUNDA VINAY KUMAR
14	U15CS059	HANUMAN B
15	U15CS060	HARI HARAN M
16	U15CS061	HASTHI RUCHITHA
17	U15CS062	HEMA NARAYANAN R
18	U15CS063	INAPARTHI RAGHAVA
19	U15CS064	INJE RAVI TEJA
20	U15CS065	INNURU SWATHI
21	U15CS066	JAGADEESH K
22	U15CS067	JAGADEESWARA RAO JADDU
23	U15CS068	JAICHAND KUMAR
24	U15CS069	JANAKI RAMAN V
25	U15CS070	JHA ABHISHEK AJAY
26	U15CS071	JOHN PARAM JYOTHI JYOTHULA
27	U15CS072	JOTHI R
28	U15CS073	K THULASIRAM
29	U15CS074	KADALI VINAY NARASIMHA
30	U15CS075	KADUMU MOUNIKA
31	U15CS076	KAIPU PRANAY REDDY
32	U15CS077	KALYANAM JASWANTH NAIDU
33	U15CS078	KAMBLE NIKHIL KUMAR
34	U15CS079	KANCHARLAPALLI LOKESHWAR RAO
35	U15CS080	KANCHUMARTHI BHUVANESWAR VINAY

Course Coordinator

HEAD OF DEPARTMENT—
Department of Computer Science & Engg.,
Bharath Institute Of Higher Education & Respect to
(Declared as Deemed to be University U/S 3 Of UGC AUC
Chennal - 800 073, INDIA

	COURSE FEEDBACK FORM					
Academic Year	2020-2021					
Term						
Course Number						
Course Title	Certificate Course on CRS Amadeus					
Number of Credits						

Course No	umber									
Course Ti			Certificate	Course on CR	S Amadeus					
lumber o		e ·	Certificate	Course on Civ	5 Amadeus					
ype of C		Regular	-	Electiv	18		Add-on			
ype or c	ourse	Regulai		Liceti		- '	Add-on			
Inf	formatic	on on the Respo	ndent: (Tick	(v) Appropri	ately)					
****	ormatic	on on the Kespo	ildelit. (Tick	(ч) дрргорга	atery)					
Per	rcentage	e of classes atter	ided							
0-2	20	20	0-40	40)-60	60-80		80-100	1	
		f hours per weel				ure hours)				
0-2	2	2-	-4	4-	6	6-8		8-10		
3. Preparation for the course by the student:										
(i)	-	A CONTRACTOR OF THE PARTY OF TH		occase)		110				
(ii)		Have done part of this course earlier Has adequate prior exposure to the prerequisites								
(iii		Had to pickup relevant additional topics through concurrent study								
		Have no exposure to the background material								
(iv) Have no exposure to the background material										
Th	The expectations for taking the course by the student are:									
(a)	Er	Enhance by skill base in the area of specializations								
(b)	G	Get exposed to a relevant subject								
(c)	Cı	Curiosity								
(d)	В	etter Employmen	t Opportunity	Opportunity						
(e)	C	omplete Course r	requirements		100					
(f)	To	Improve CGPA			n	-				
bout the	Instru	ctor: Informatio	on on the Re	spondent: (Tic	k (√) Appro	priately)				
				A	В	C	D		E	
Pac	e of the	Teaching/lecture	2	1						
Con	mment o	of the Subject		/			7 1		1-7-	
Cla	rity of e	xpression		/						
Lev	vel of pr	eparation		/						
Lev	vel of in	teraction		1						
. Acc	cessibili	y outside the cla	iss	/	/					
. Oth	ners (ple	ase specify		1						
		/							TEM.	
: Excelle	ent /	B: Very	Good	C: Good		D: Satisfacto	ry	E: Po	or	

HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT

Department Of Computer Science & Engg.
Bharath Institute Of Higher Education & Researc:
(Declared as Deemed to be University U/S 3 Of UGC Aci, ...
Chennai - 600 073. INDIA

cad	lemic Yea	Al C	2020-202											
Term														
Cour	se Numb	er												
Cour	se Title		Certificate	Course on C	RS Amadeus									
Num	ber of Cr	redits						1	_					
Гуре	of Cours	se Regular		Elective Add-o		Add-on	-							
l.	Inform	nation on the Resp	pondent: (Tick	(√) Appropi	riately)									
1.	Percentage of classes attended													
	0-20	ltage of classes at	20-40	14	10-60	60-80	1	80-100	/					
_	0-20		20-40		10-00	00 00		00 100						
2.	Numb	er of hours per we	eek spent on th	he course (Ot	her than lectu	ire hours)								
	0-2		2-4	4	1-6	6-8	-	8-10						
3.	Prepai	Preparation for the course by the student:												
	(i)	Have done part of this course earlier												
					t and the same of	Has adequate prior exposure to the prerequisites Had to pickup relevant additional topics through concurrent study								
	(ii)													
	(ii)				ugh concurren	t study	for							
	1000		elevant addition	nal topics thro	ugh concurren	t study	for							
	(iii)	Had to pickup re Have no exposu	elevant addition	nal topics thro	ugh concurren	t study	for							
1.	(iii) (iv)	Had to pickup re Have no exposu	elevant addition are to the backg	nal topics thro round materia	ugh concurren	t study	Ja							
	(iii) (iv) The ex	Had to pickup re Have no exposu pectations for tal Enhance by skil	elevant addition are to the backgraining the course I base in the are	nal topics thro round materia by the stude a of specializ	ent are:	t study	Ja							
1.	(iii) (iv) The ex (a) (b)	Had to pickup re Have no exposu pectations for tal Enhance by skil Get exposed to a	elevant addition are to the backgraining the course I base in the are	nal topics thro round materia by the stude a of specializ	ugh concurren	t study	for							
1.	(iii) (iv) The ex (a) (b) (c)	Had to pickup re Have no exposu pectations for tal Enhance by skil Get exposed to a Curiosity	elevant addition are to the backgraining the course I base in the are a relevant subje	nal topics thro round materia e by the stude ea of specializect	ent are:	t study	Jan .							
4.	(iii) (iv) The ex (a) (b) (c) (d)	Had to pickup re Have no exposu pectations for tal Enhance by skil Get exposed to a Curiosity Better Employm	elevant addition are to the backgraining the course I base in the are a relevant subjection	e by the stude	ent are:	t study	Jan							
4.	(iii) (iv) The ex (a) (b) (c) (d) (e)	Had to pickup re Have no exposu pectations for tal Enhance by skil Get exposed to a Curiosity Better Employm Complete Cours	elevant addition are to the backgraining the course I base in the are a relevant subjection of the course ment Opportunities of the course are requirements	e by the stude	ent are:	t study	Jan .							
	(iii) (iv) The ex (a) (b) (c) (d) (e) (f)	Had to pickup re Have no exposu pectations for tal Enhance by skil Get exposed to a Curiosity Better Employm Complete Cours To Improve CG	elevant additionare to the backgrain the course I base in the area a relevant subject the course a relevant subject the course are requirements are requirements.	e by the stude ea of specialize et	ent are:	t study	Jan .							
	(iii) (iv) The ex (a) (b) (c) (d) (e) (f)	Had to pickup re Have no exposu pectations for tal Enhance by skil Get exposed to a Curiosity Better Employm Complete Cours	elevant additionare to the backgrain the course I base in the area a relevant subject the course a relevant subject the course are requirements are requirements.	e by the stude ea of specialize et	ent are: ations Cick (V) Appro	priately)	Jes .							
Aboi	(iii) (iv) The ex (a) (b) (c) (d) (e) (f) ut the Ins	Had to pickup re Have no exposu pectations for tal Enhance by skil Get exposed to a Curiosity Better Employm Complete Cours To Improve CG	elevant additionare to the backgrant additionare to the backgrant subject to the backgrant subject to the area arelevant subject to the course are requirements are requirements. PA	e by the stude ea of specialize et	ent are:	t study	Jen T)	E					
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Abou	(iii) (iv) The ex (a) (b) (c) (d) (e) (f) Pace of Common Clarity	Had to pickup re Have no exposu pectations for tal Enhance by skil Get exposed to a Curiosity Better Employm Complete Cours To Improve CGi structor: Informa	elevant additionare to the backgrant additionare to the backgrant subject to the backgrant subject to the area arelevant subject to the course are requirements are requirements. PA	e by the stude ea of specialize et	ent are: ations Cick (V) Appro	priately)	Jen I		E					
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Abou 1. 22. 33. 44.	(iii) (iv) The ex (a) (b) (c) (d) (e) (f) Pace of Common Clarity Level of Level of	Had to pickup re Have no exposu Epectations for tal Enhance by skill Get exposed to a Curiosity Better Employm Complete Cours To Improve CG structor: Informat f the Teaching/lect ent of the Subject of expression of preparation of interaction	elevant additionare to the backgrant additionare to the backgrant subject to the course a relevant subject to the course a relevant subject to the requirements are requirements. PA action on the Resource	e by the stude ea of specialize et	ent are: ations Cick (V) Appro	priately)			E					
4. About 1. 2. 3. 4. 5. 6. 7.	(iii) (iv) The ex (a) (b) (c) (d) (e) (f) Pace of Common Clarity Level of Access	Had to pickup re Have no exposu Enhance by skill Get exposed to a Curiosity Better Employm Complete Cours To Improve CG structor: Informat f the Teaching/lect ent of the Subject of expression of preparation	elevant additionare to the backgrant additionare to the backgrant subject to the course a relevant subject to the course a relevant subject to the requirements are requirements. PA action on the Resource	e by the stude ea of specialize et	ent are: ations Cick (V) Appro	priately)			E					

HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT
Department of Computer Science & EnggBharath Institute Of Higher Education & Research
[Declared as Deemed to be University U/S 3 Of UGC Act, 1956.
Chennal - 800 073. INDIA

Aca	demic Ye	ar	2020-202	1							
Terr	n							1 1-5-	5-ym - 72		
Cou	rse Num	ber									
Cou	rse Title		Certificate	Course on CRS	Amadeus						
Nun	nber of C	redits									
Тур	e of Cour	se Regular		Elective		4	Add-on				
I.	Infor	nation on the I	Respondent: (Tick	ς (√) Appropria	tely)						
1.	Perce	ntage of classes	attended								
	0-20		20-40	40-	60	60-80		80-100			
									,		
2.		er of hours per	r week spent on th			ire hours)					
	0-2		2-4	4-6		6-8		8-10			
3.	Prepa	ration for the c	course by the stud	lent:							
	(i)		art of this course e								
	(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									
						you					
4.	The e	The expectations for taking the course by the student are:									
	(a)	Enhance by s	skill base in the are	ea of specialization	ons	no					
	(b)	Get exposed	to a relevant subje	ct	cm						
	(c)	Curiosity			1100						
	(d)	Better Emplo	yment Opportunit	у	Inc						
	(e)	Complete Co	urse requirements		un						
	(f)	To Improve C	CGPA	L- I TAGE	ab						
Abo	ut the In	structor: Infor	mation on the Re	spondent: (Tick		priately)					
				A	В	C	D		E		
1.	Pace o	f the Teaching/l	ecture								
2.	Comm	ent of the Subje	ect	/							
3.	Clarity	of expression		/	-						
4.	Level	of preparation		/	Long						
5.	Level	of interaction		1							
6.	Access	ibility outside t	he class	1							
7.	Others	(please specify							1-1-1-1		
		/									
A: E	xcellent	B:	Very Good	C: Good		D: Satisfacto	ry	E: Poo	r		

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, (458)
Chennal - 500 073, INDIA





Requisition letter

Date: 18.02.2021

From

Dr.K.P.Kaliyamurthie,

Professor & Head,

Department of CSE,

Bharath Institute of Higher Education and Research,

Chennai.

To

The Dean Engineering,

Bharath Institute of Higher Education and Research,

Chennai.

Respected Sir

Sub: Request of permission to conduct a value - added course on "Microsoft Cloud Application" (online) -Reg

With reference to above subject, I would like to bring to your kind notice that, our department interested to organize value added course "Microsoft Cloud Application" - reg in our campus premises on 22.02.2021, students would be participating in this course. We request you kindly to give permission to organize this event.

Timing: 9:30 AM to 12:30 PM (FN) and 1:30 PM to 4:30 PM (AN)

Submitted to principal for approval to organize this value-added course.

HOD 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)

Chennal - 600 073, INDIA

DEAN ENGINEERING **DEAN** (Engineering)

Bharath Institute of Science & Technology BHARATH INSTITUTE OF HIGHER EDUCATION & RESEARCH (Declared as Deemed to be University U/S 3 of UGC Act. 19ab) Selaiyur, Chennai-600 073.



CIRCULAR

20.02.2021

The school of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on Certificate Course of Microsoft Cloud Application for the benefit of students. This course is scheduled from 22.02.2021 to 03.03.2021. 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. Rajaboostem	Professor
2	Mr. R. Sridhar	Assistant Profesion

To

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CI DERTMENT H Marment Of Computer Science & Engg. Bharath Institute Of Higher Education & Research (Declared as Deemed to be University U/S 3 O(UGC Act, 1956)

Head of Department

Chennal - 600 073, INDIA



CERTIFICATE COURSE ON MICROSOFT CLOUD APPLICATION

Date of Introduction of the Course: 07.03.2021

COURSE SYLLABUS

1. Introduction of cloud computing

General Benefits and Architecture, Business Drivers, Main players in the Field, Overview of Security Issues, XaaS Cloud Based Service Offerings

2. Key Amazon offerings

EC2, Simple DB, S3, Simple Queue, Simple Relational Database, Elastic Map Reduce, Virtual Amazon Cloud. S3 Command Line tool

3. Bundling Amazon instances

We will learn how to create and manipulate Amazon instances with command line tools, transfer application software to instances and bundle them into new AMI-s that could be offered to the public.

4. Amazon's Elastic Block Storage

(EBS) provides persistence storage in the cloud. We will learn how to move application code and data from non-EBS instance into EBS volumes, and create our own EBS based AMI-

5 Amazon's AWS Identity

Management and Security in the Cloud

6. Amazon's Virtual Private Cloud

Amazon's Virtual Private Cloud (VPC) and Directory Service

7. Java AWS SDK, S3 API

Java AWS SDK, S3 API, Relational Database Service, SimlpeDB Service, NoSQL Databases

8. Amazon's Messaging in the Cloud

We will review details of AWS Simple Notification and Simple Queuing Service.

9. Amazon's Restful Web Services

AWS APIs are sufficiently rich to allow you easy interaction with AWS service. However, in order to establish connectivity between your own modules in the Cloud you should use Restful Web Services

10. Elastic Load Balancing and Auto Scaling

allow automation of resource manipulation

11. Introduction to Microsoft Cloud

Microsoft offers a set of resources and features that are of great utility to those who are restricted to programming in .Net Environment

12. Map Reduce

Performs large distributed computation as a set of distributed operations on data sets composed of key-value pairs producing a reduced set of key-value pairs. We will learn the basics of Hadoop, an open-source implementation of Map Reduce, and its Java API. Hadoop Distributed File System (HDFS) features.

COURSE OBJECTIVES

To learn and analyse the Cloud Computing has transformed the IT industry by opening the possibility for infinite or at least highly elastic scalability in the delivery of enterprise applications and software as a service (SaaS).

Specifically, the course has the following objectives:

Students will learn

- 1. Understanding cloud concepts
- 2. Understanding key amazon offerings.
- 3. Analyse bundling amazon instances.
- 4. Create amazon messaging in the cloud,
- 5. Demonstrate a conceptual understanding of the unified nature of map reduce.
- 6. Understanding about amazon virtual private cloud.

COURSE COORDINATOR

R. Sride

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



CERTIFICATE COURSE ON MICROSOFT COLUD APPLICATION

Date of Introduction of the Course: 07.03.2021

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	22-02-2021(FN)	1. Introduction of cloud computing General Benefits and Architecture, Business Drivers, Main players in the Field, Overview of Security Issues, XaaS Cloud Based Service Offerings
2	23-02-2021 (FN)	2. Key Amazon offerings EC2, Simple DB, S3, Simple Queue, Simple Relational Database, Elastic Map Reduce, Virtual Amazon Cloud. S3 Command Line tool
3	24-02-2021(FN)	3. Bundling Amazon instances
		We will learn how to create and manipulate Amazon instances with command line tools, transfer application software to instances and bundle them into new AMI-s that could be offered to the public.
4	25-02-2021(FN)	4. Amazon's Elastic Block Storage (EBS) provides persistence storage in the cloud. We will learn how to move application code and data from non-EBS instance into EBS volumes, and create our own EBS based AMI
5	26-02-2021(FN)	5. Amazon's AWS Identity Management and Security in the Cloud
6,7	27-02-2021 (FN&AN)	6. Amazon's Virtual Private Cloud 7. Java AWS SDK, S3 API Java AWS SDK, S3 API, Relational Database Service, Simple DB Service, NoSQL Databases
8	29-02-2021(FN)	8. Amazon's Messaging in the Cloud We will review details of AWS Simple Notification and Simple Queuing Service.
9	01-03-2021 (FN)	9. Amazon's RESTFul Web Services AWS APIs are sufficiently rich to allow you easy interaction with AWS service. However, in order to establish connectivity between your own modules in the Cloud you should use RESTFul Web Services.

10	02-03-2021 (FN)	10. Elastic Load Balancing and Auto Scaling Allow automation of resource manipulation
11	03-03-2021 (FN)	11. Introduction to Microsoft Cloud Microsoft offers a set of resources and features that are of great utility to those who are restricted to programming in .Net Environment
12	03-03-2021 (FN)	12. MapReduce Performs large distributed computation as a set of distributed operations on data sets composed of keyvalue pairs producing a reduced set of key-value pairs. We will learn the basics of Hadoop, an open-source implementation of MapReduce, and its Java API. Hadoop Distributed File System (HDFS) features.

R. Srid

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 UGC Act, 1956)
Chennal - 600 073. INDIA



INSTITUTE OF HIGHER EDUCATION AND RESEARCH (Declared as Deemed-to-be University under section 3 of UGC Act, 1956) (Vide Notification No. F.9-5/2000 - U.3, Ministry of Human Resource Development, Govt. of India, dated 4" July 2002)

	DEP	ARTMENT OF COMPUTER SCIENCE AND ENGINEERING					
	Microsoft Cloud Application						
B.Tech Computer Science and Engineering (2020-2021)							
S. No	REG.NO	NAME OF THE CANDIDATE					
1	U15CS101	KOTNANI KRISHNA VAMSI					
2	U15CS102	KRISHNA KUMAR YADAV					
3	U15CS103	KUMMETA SAI VAMSI KRISHNA REDDY					
4	U15CS104	KUNISETTY JYOTHSNA					
5	U15CS105	LALJEE					
6	U15CS106	LINGAMPELLY SANNITH REDDY					
7	U15CS107	LOHESH WARAN S					
8	U15CS108	M SHIVA PRAKASH					
9	U15CS109	M UTTEJ					
10	U15CS110	M. DINESH REDDY					
11	U15CS111	M.YESHWITHA REDDY					
12	U15CS112	MAILE ARUN KUMAR					
13	U15CS113	MAMUNDURU BHARATH KUMAR					
14	U15CS114	MANCHALA ROHITH					
15	U15CS115	MANCHIKANTI RAJITHA					
16	U15CS117	MANOJ KUMAR R					
17	U15CS118	MANUGUNTA BHARGAVI					
18	U15CS119	MARRIBOYINA GOVARDHAN YADAV					
	U15CS120	MARRIPUDI KRISHNA CHAITANYA					

- NAC-101		
20	U15CS121	MD MINHAZ RAZA HASHMI
21	U15CS122	MOHAMED SAJEEN N
22	U15CS123	MOHAMMAD ASLAM SHAREEF
23	U15CS124	MOHANKUMAR J
24	U15CS125	MOLAPANTI SIVA KALPANA
25	U15CS126	MOORABOINA NARESH
26	U15CS127	MUPPALLA SURENDRA
27	U15CS128	MURARI KUMAR CHAUDHARY
28	U15CS129	N SWAPNA RAAGA
29	U15CS130	NAGANNAGARI JAGADISH
30	U15CS132	NALLANALLI SATYA SANDEEP KUMAR
31	U15CS133	NALLURI AKHIL BABU
32	U15CS134	NAMBURI VIJAY KUMAR
33	U15CS135	NARENDULA NIREESHA
34	U15CS200	SITAROJ SRIKANTH
35	U15CS201	SMITHA C.S
36	U15CS202	SODISETTY SANDEEP
37	U15CS203	SUBASH CHANDRAN V
38	U15CS204	SUBHAM RAY
39	U15CS205	SUDALAGUNTA GOPI KRISHNA
40	U15CS206	SUJEETH KUMAR K
41	U15CS207	SWARNA LAKSHMI PRIYANKA
42	U15CS208	TAGORE S

R.Svide

COURSE CO-ORDINATOR

HEAD BHROPSRIMENT
Department Of Computer Science & Rusen

HEAD PHOPENTMENT
Ospartment Of Computer Science & Rusen
General Institute Of Higher Education
(Populared as Deemed to be University UIS
Chennal - 600 073. MU

	Academic Year			2021						
Te	rm									
Co	urse Nun	nber								
Co	Course Title			Microsoft Cloud Application						
Nu	Number of Credits			Flective Add-on						
Ty	e of Cou	irse Regular		Elec	ctive		Add-on			
I.	Infor	mation on the Re	espondent: (Tick (√) Approp	oriately)					
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2.		er of hours per v	111	on the course (C		6-8		8-10		
	0-2		2-4		4-6	0-8	V .			
3.	Prens	ration for the co	urse by the	student:			No)		
<i>J</i> .	(i)	Have done part					Yes			
	(ii)			e to the prerequi	sites		Ye	λ		
	(iii)					study	N	Ò		
	1 (111)	Had to pickup relevant additional topics through concurrent study Have no exposure to the background material								
	(iv)	Have no exposi					1	-		
	(iv)		ure to the ba	ckground materi	al		1	-		
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4.			ure to the backing the cou	ekground materi	al lent are:		Yes	-		
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Department Of Computer Science & Engg.,
Eherath Institute Of Higher Education & Research
[Declared as Deemed to be University U/S 3 Of UGC Act, 1986]
Chennal - 600 073, INDIA

Acad	cademic Year 2020-2021									
Term										
Cour	se Numbe	r								
Cour	Course Title			Microsoft Cloud Application						
Num	ber of Cre	edits								
Туре	of Course	Regu	lar		Elective			Add-on		
I.	Inform	ation on th	e Respondent: (T	ick (√)	Appropriat	ely)				
1.	Damant	aga of alac	ses attended							
1.	0-20	age of clas	20-40		40-6	60	60-80		80-100	90
-	0-20		20-40		10-1		100 00			yo.
2.	Numbe	r of hours	per week spent o	n the co	ourse (Other	than lectu	re hours)			
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	_								- > \-	
3.	-	Carlo Company	e course by the s						Total	
	(i)		e part of this cours						No	
	(ii)		ate prior exposur						No	
	(iii)		ckup relevant addi			1 concurrent	t study		Yes	
	(iv)	Have no e	exposure to the bac	ckgroun	id material				No	
4.	The exi	ectations i	for taking the co	urse by	the student	are:				
	(a)		by skill base in the						Yes	
	(b)	Get expos	sed to a relevant su	ıbject	1000				No	
	(c)	Curiosity							Yes	
	(d)	Better Em	ployment Opport							
	(e)	Complete	Course requireme	ents					Yes	
	(f)	To Improv	ve CGPA						Yes	
Abou	t the Ins	tructor: In	formation on the	Respo	ndent: (Tick	(√) Appro	priately)			
					A	В	С	D	VI	E
1.	Pace of	the Teachir	ng/lecture		~					
2.	Comme	ent of the Su	ıbject			~				
3.	Clarity	of expression	on							
4.	ALTO TOWN THE WAY	f preparatio	VIII.			~				
5.	Level o	f interaction	1		V					
6.	Accessi	bility outsi	de the class		\checkmark					
7.	Others	(please spec	cify		~					
A . T	11		P. V. Cart		0.000	1	D. Carlot	tom.	F. D.	
A: E	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, 185]

Chennai - 600 073, NDIA

cade	mic Year		2020-2021							
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ourse	Number									
ourse	Title		Microsoft Cl	loud Application	n					
lumb	er of Cre	dits								
	of Course			Elective	1	Ad	d-on	~		
Jpo					-	10-				
. 1	Informs	ntion on the Resp	ondent: (Tick (V) Appropriately)					
	Percent	age of classes att	ended							
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.		r of hours per we			an lecture			8-10	1.0	
	0-2		2-4	4-6		6-8		8-10	10	
	Droper	ation for the cou	ree by the studen	ıt:						
•			of this course earl				-	Yes		
	(i)		ior exposure to th					No		
	(ii)	Andread and the second	elevant additional		oncurrent st	ndv		11		
	(iii)	107			Olicarent st			Val		
	(iv)	Have no exposu	re to the background	und material				Yes		
4.	The ex	pectations for ta	king the course b	y the student a	re:					
٦.	(a)		I base in the area					Yes		
	(b)	Control of the Control of the Control	a relevant subject							
	(c)	Curiosity		Yes						
	(d)	Season to the se	nent Opportunity	nt Opportunity						
	(e)		se requirements							
	(f)	To Improve CC						Yes		
Abo	(1)	structor: Inform	ation on the Res	pondent: (Tick	√) Appropr	iately)		-0-		
Abu	ut the in	Structor, Inform		A	В	C	D		E	
1.	Page	of the Teaching/lea	ture							
2.		ent of the Subject			V					
3.		y of expression		V						
4.		of preparation		V						
5.		of interaction		V	\checkmark					
6.		sibility outside the	e class	1.0						
7.	The second second	s (please specify		1 3					76	
1 7	1 3 761101	a (piedae apeent)		V /						

HEAD OF THE DEPARTMENT

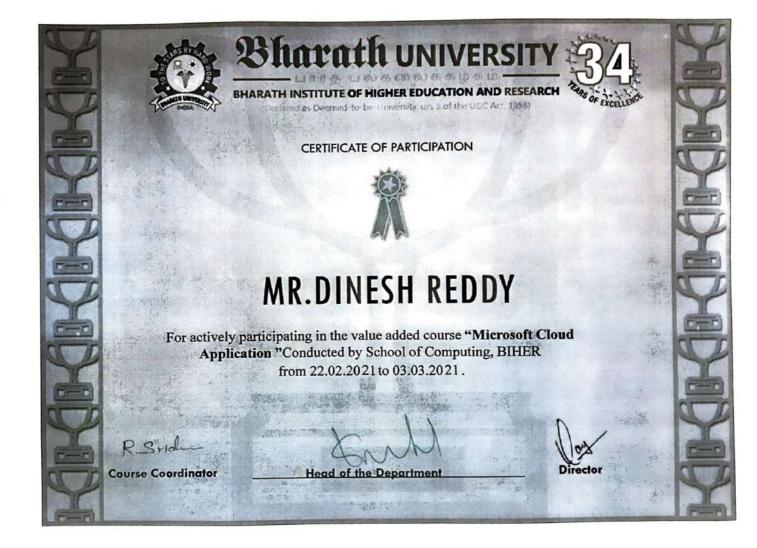
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Department Of Computer Science & Engg.,

Bharath Institute Of Higher Education & Research

(Doclared as Deemed to be University U/S 3 Of UGC Act, 1956)

Chennal - 600 073, INDIA





Requisition letter

Date: 28.03.2021

From

Dr. K.P.Kaliyamurthie,

Professor & Head,

Department of CSE,

Bharath Institute of Higher Education and Research,

Chennai.

To

The Dean Engineering,

Bharath Institute of Higher Education and Research,

Chennai.

Respected Sir

Sub: Request of permission to conduct a value – added course on "Microsoft Windows Application" (online) -Reg

With reference to above subject, I would like to bring to your kind notice that, our department interested to organize value added course "Microsoft Windows Application" – reg in our campus premises on 30.03.2021, students would be participating in this course. We request you kindly to give permission to organize this event.

Timing: 9:30 AM to 12:30 PM (FN) and 1:30 PM to 4:30 PM(AN)

Submitted to principal for approval to organize this value-added course.

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 Science & Technology
BHARATH INSTITUTE OF HIGHER EDUCATION & RESEARCH
(Declared as Deamed to be University U/S 3 of UGC Act. 1956)

Selaiyur, Chennai-600 073.



CIRCULAR

29.03.2021

The school of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on Certificate Course of Microsoft Windows Application for the benefit of students. This course is scheduled from 30.03.2021 to 09.04.2021 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. Rajabhushanam	rotenor
2	Mrc. G. Kavitha	Amistant 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, 1966)

Cheanai - 600 613, 1401



CERTIFICATE COURSE ON MICROSOFT WINDOWS APPLICATION

Date of Introduction of the Course: 11.04.2021

COURSE SYLLABUS

1. Installing Windows

This module covers installing the Windows client OS. Students will learn the different editions of Windows client, requirements, and new features introduced.

2. Configuring Authorization and Authentication

This module introduces the tools and features of Windows for authorizing access to Windows clients. Students will learn about methods for how users sign-in to Windows.

3. Post Installation Configuration and Personalization

This module covers common post-installation tasks in Windows client. Students will learn how to customize the user interface, as well as using the control panel and settings app to configure common OS settings.

4. Updating Windows

Servicing model and how it applies to various scenarios. Students will learn the various different methods for updating Windows and applications, as well as managing updates using tools like group policy and Windows Update for Business.

5. Configuring Networking

This module will introduce to IPv4 and IPv6, and concepts like DNS. Students will learn how to configure network settings in Windows, as well as learn about wireless network technologies.

6. Configuring Storage

This module covers storage configuration and management in Windows 10. Students will be introduced to local, cloud and virtual storage options.

7. Configuring Data Access and Usage

Students will learn how to configure file and folder permissions as well as shared folders. Students will also learn configuring settings through methods such as local and group policy.

8. Managing Apps in Windows Client

This module will cover the different types of apps and supported installation methods. Students will learn how to install apps using manual and automated methods, as well as manage app delivery using the Windows Store.

9. Configuring Threat Protection and Advanced Security

This module will teach students about using encryption, firewalls, and IPSec to help protect against threats. The module will conclude with how to configure and use Windows Defender and AppLocker.

10. Supporting the Windows Client Environment

This module will also discuss methodologies for effectively troubleshooting issues and how to proactively manage and optimize Windows.

11. Trouble Shooting Flies and Application

This module also includes common methods for troubleshooting application installation issues, compatibility issues, and resolving browser issues.

12. Trouble Shooting Hardware and Drivers

Students will also learn steps for troubleshooting system hardware and external peripherals such as USB drives and printers, including diagnostic methods and remediation.

COURSE OBJECTIVES

To learn and analyse how to managing storage, files, and devices as well as how to configure network connectivity for Windows. Students will also learn how to secure the Windows OS and protect the data on the device. Finally, students will learn how to manage and troubleshoot Windows clients.

Specifically, the course has the following objectives:

Students will learn

- 1. Understanding Microsoft application
- 2. Understanding authorization and authentication.
- 3. Analyse updating windows.
- 4. Configuring data access and usage.
- Understanding of trouble shooting and application.
- Understanding of trouble shooting hardware and drivers.

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 - 500 073, INDIA



CERTIFICATE COURSE ON MICROSOFT WINDOWS APPLICATION

Date of Introduction of the Course: 11.04.2021

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

	CV ACC				
CLASS	DATE	TOPIC			
1	30-03-2021(FN)	1. Installing Windows This module covers installing the Windows client OS. Students will learn the different editions of Windows client, requirements, and new features introduced.			
2	31-03-2021 (FN)	2.Configuring Authorization and Authentication This module introduces the tools and features of Windows for authorizing access to Windows clients. Students will learn about methods for how users sign-in to Windows.			
3	01-04-2021(FN)	3.Post Installation Configuration and Personalization This module covers common post-installation tasks in Windows client. Students will learn how to customize the user interface, as well as using the control panel and settings app to configure common OS settings.			
4,5	02-04-2021(FN) &(AN)	4. Updating Windows 5. Configuring Networking Servicing model and how it applies to various scenarios. Students will learn the various different methods for updating Windows and applications, as well as managing updates using tools like group policy and Windows Update for Business.			
6	04-04-2021(FN)	6. Configuring Storage This module will introduce to IPv4 and IPv6, and concepts like DNS. Students will learn how to configure network settings in Windows, as well as learn about wireless network technologies.			
7	05-04-2021 (FN)	7. Configuring Data Access and Usage Students will learn how to configure file and folder permissions as well as shared folders. Students will also learn configuring settings through methods such as local and group policy.			

8	06-04-2021(FN)	8. Managing Apps in Windows Client This module will cover the different types of apps and supported installation methods. Students will learn how to install apps using manual and automated methods, as well as manage app delivery using the Windows Store.
9	07-04-2021 (FN)	9. Configuring Threat Protection and Advanced Security This module will teach students about using encryption, firewalls, and IPSec to help protect against threats. The module will conclude with how to configure and use Windows Defender and AppLocker.
10	08-04-2021 (FN)	10. Supporting the Windows Client Environment This module also includes common methods for troubleshooting application installation issues, compatibility issues, and resolving browser issues.
11,12	09-04-2021 (FN)&(AN)	11. Trouble Shooting Hardware and Drivers 12. Trouble Shooting Flies and Application Students will also learn steps for troubleshooting system hardware and external peripherals such as USB drives and printers, including diagnostic methods and remediation.

COURSE COORDINATOR

HEAD OF THE DEPARTMENT

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



INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Declared as Deemed-to-be University under section 3 of UGC Act. 1956)
(Vide Notification No. F.9-5/2000 - U.3, Ministry of Human Resource Development, Govt. of India, dated 4" July 2002)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING						
	Microsoft Windows Application					
B.Tech Computer Science and Engineering (2020-2021)						
S. No	REG.NO	NAME OF THE CANDIDATE				
1	U15CS050	PERABATHULA SUNIL KUMAR				
2	U15CS051	PERAM ANTONY				
3	U15CS052	PERAM VENKATA KRISHNA REDDY				
4	U15CS053	PERURI V S V KRISHNA MOHAN				
5	U15CS054	POORVISHA M				
5	U15CS055	PRADEEP YADAV				
7	U15CS056	PRASAD ABHISHEK KUMAR				
8	U15CS057	PRASHANT PATHAK				
9	U15CS058	PRATHI VENKAT RANJITH KUMAR				
0	U15CS059	PRAVEENA S				
11	U15CS060	PUJALA NARENDRA BABU				
2	U15CS061	PULAGAM SAI PRATHAP REDDY				
3	U15CS062	PULIMUNI HIMAJA				
4	U15CS063	PULUKURI SASIDHAR				
15	U15CS064	PUPPALLA SANDEEP KUMAR				
6	U15CS065	PUTLURI ANURADHA				
7	U15CS066	R4AVI NARENDRA				
8	U15CS067	RAGILLA SANTHOSH KUMAR				
9	U15CS068	RAJULA SREEVANI				
0	U15CS069	RAKESH RATHI				
1	U15CS070	RAMACHANDRAN J				
2	U15CS071	RAMIREDDY LAKSHMAN AJAY				
3	U15CS072	RAMIREDDY SURENDRA REDDY				
4	U15CS073	RANGISETTY KARTHIK				
5	U15CS074	RAPARTHY SAI KIRAN				
6	U15CS075	RAVANAM CHAITANYA ARAVIND VISHNU VARDHAN				
7	U15CS076	RAVURI SRIKANTH				
8	U15CS077	RESHMA A				
9	U15CS078	RICHARD WMVRAND J				
0	U15CS079	S. PUNITHA				
1	U15CS080	S. SAI SHRUTHI				
2	U15CS081	SADHOLLA PRANAY REDDY				
33	U15CS082	SAI RAMANA S M				
34	U15CS083	SANAYAGARI JAYA CHANDRA REDDY				
35	U15CS084	SANDANAMUDI CHANDRA TEJA				

36	U15CS085	SANTHOSH RAJ M
37	U15CS086	SATHISH S
38	U15CS087	SEETAPATI HEMA SEKHAR
39	U15CS088	SESHA SRUJAN B
40	U15CS089	SHAIK AFRIDI
41	U15CS090	SHAIK SABIR
42	U15CS091	SHAIK YASMEEN
43	U15CS092	SHARYARAI S
44	U15CS093	SHATRUGHAN SUMAN S
45	U15CS094	SINGAMALA VENKATA SAI RAVI TEJESWAR REDDY
46	U15CS095	SIRI GIRI HAREESH
47	U15CS096	SITAROJ SRIKANTH
48	U15CS097	SMITHA C.S
49	U15CS098	SODISETTY SANDEEP
50	U15CS099	SUBASH CHANDRAN V
51	U15CS100	SUBHAM RAY
52	U15CS101	SUDALAGUNTA GOPI KRISHNA
53	U15CS102	SUJEETH KUMAR K
54	U15CS218	SWARNA LAKSHMI PRIYANKA
55	U15CS219	TAGORE S
56	U15CS220	TAKKELLA AJITH CHOWDARY
	10	

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Department of Computer Science & Engg.,

Bharath Institute Of Higher Education & Research

(Beclared as Deemed to be University U/S 3 Of UGC Act, 1960,

Chennai - 600 073. INDUA

Ac	ademic Y	ear	202	20-2021								
Te	m											
Co	urse Num	ber										
Co	urse Title		Mi	crosoft Windo	ws Applica	tion						
Nu	mber of C	credits										
Тур	e of Cou	rse Regu	lar		Elective		b	Add-on	1			
						•						
I.	Infor	mation on th	e Respondent	: (Tick (√) App	ropriately)							
1.	Perce	ntage of class	ses attended									
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					1000				0.505/0.50			
2.	Numb	er of hours p	er week spen	t on the course	(Other tha	n lecture ho	urs)					
	0-2		2-4		4-6		6-8_		8-10			
3.	D	notion for a						201-				
•		Preparation for the course by the student:										
	(i)	Have done part of this course earlier										
	(ii)	Has adequate prior exposure to the prerequisites Had to pickup relevant additional topics through concurrent study										
	(iii)											
	(iv)	v) Have no exposure to the background material										
1.	The ex	The expectations for taking the course by the student are:										
	(a) Enhance by skill base in the area of specializations											
	(b)	Get expose	d to a relevant	t subject			Les 1					
	(c)	Curiosity										
	(d)	Better Emp	loyment Oppo	ortunity			2					
	(e)	Complete C	Course require	ments		4						
	(f)	To Improve	CGPA			ď	To					
bo	ut the Ins	tructor: Info	rmation on t	he Respondent	: (Tick (√) A	ppropriatel	y)					
				A		В	C	D		E		
	Pace of	the Teaching	/lecture		-							
	Comme	nt of the Sub	ject									
(Clarity	of expression		/								
	Level o	f preparation				_						
	Level o	f interaction			/							
	Accessi	bility outside	the class			/ .						
	Others (please specif	y									
4: E:	xcellent	T ₁	B: Very Good	C: 0	Good	D: S	atisfacto	ту	E: Poo	r		
A: E:	xcellent		B: Very Good	C: C	Good	D: S	Satisfacto	ту	E: Poo	r		

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Chennal - 600 073, INDIA

Acad	emic Yea	ic Year 2020-2021								
Term										
Cour	se Numbe	er							117-11-11-1	
Cour	se Title		Micro	soft W	indows A	pplication				
Num	ber of Cr	edits								
Туре	of Cours	Regula	ar		Elective Add-on					-
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2.	Numbe	r of hours p	er week spent o	n the c	ourse (Oth	er than lectu	re hours)			
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3.			e course by the s							
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	(ii)		ate prior exposure					~0		
	(iii)		kup relevant addi				t study	no		
	(iv)	Have no ex	coposure to the bac	ekgrour	nd material			yes		
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٦.	(a)		or taking the cou							
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6.		bility outside	the class	-	_	-				
7.		please speci	process in the second			-		-		
	L				/					
A: E	xcellent		B: Very Good	1	C: Good		D: Satisfacto	ory	E: Poor	

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Department of Computer Science & Engg.,
Bharath Institute of Higher Education & Research
Declared as Deemed to be University UIS 3 of UGC Act, 1955)
Channai - 600 973, INDIA

Acade	demic Year 2020-2021											
Term												
Cours	e Number	•										
Cours	e Title		Micros	oft Window	s Applica	tion						
Numb	er of Cree	dits										
Туре	of Course	Regular		E	lective			Add-on				
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3.	-	reparation 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 exp	ectations for ta	king the cou	irse by the s	tudent are	:						
	(a)	Enhance by skill base in the area of specializations										
	(b)	Get exposed to a relevant subject										
	(c)	Curiosity						lus				
	(d)	Better Employr	nent Opportu	unity			· u	Io				
	(e)	Complete Cour	se requireme	ents	8		y	2				
	(f)	To Improve CG					i	ص				
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5.		f interaction					-					
6.		bility outside the	class	/								
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A: E	Excellent	B: V	Very Good	C:	Good		D: Satisfac	ctory	E: Po	or		

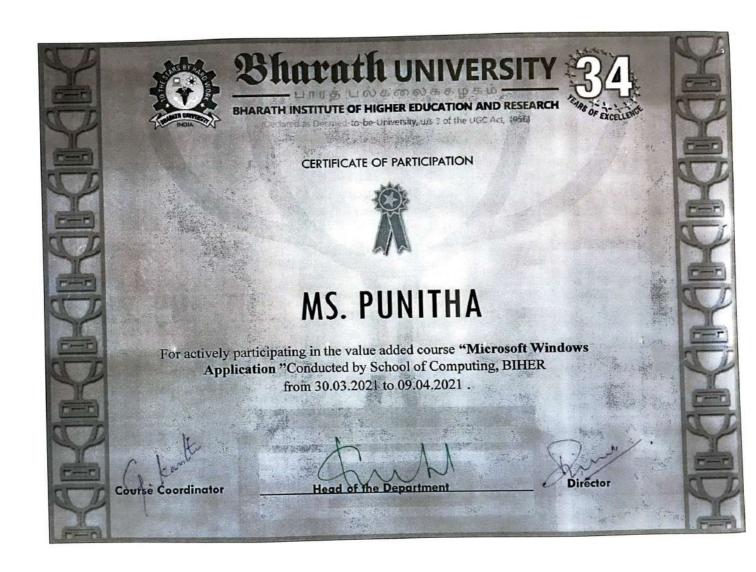
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Bepartment Of Computer Science & Engg.,

Eharath Institute Of Higher Education & Research

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Chennal - 600 073, INDIA





23 harath INSTITUTE OF HIGHER EDUCATION AND RESEARCH



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY No.173, Agharam Road, Selalyur, Chennal , T.N - 500 073.

Requisition Letter

Date:31.03.2021

From
Dr. K.P.Kaliyamurthie,
Professor & Head,
Department of CSE,
Bharath Institute of Higher Education and Research,
Chennai

To PRO VICE CHANCELLOR, Bharath Institute of Higher Education and Research, Chennai

Respected sir

Subject: Request of Permission to conduct a value-added course on "BUILDING WEB APPLICATIONS IN PHP" (ONLINE) -Reg

With reference to above subject, I would like to bring to your kind notice that, our department interested to organize value added course on "BUILDING WEB APPLICATIONS IN PHP" in our campus premises from 6.04.2021, students would be participating in this course. We request you kindly to give permission to organize this event.

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

Submitted to Principal for approval to organize this value-added course.

HEAD OF DEPARTMENT

Department Of Computer Science & Engg.,
Bharath Institute Of Higher Education & Research
(Declared as Deemed to be University UIS 3 Of UGC Act, 1955)
Chennai - 600 073, INDIA

DEAN ENGINEERING DEAN (Engineering)

Bharath Institute of Science & Technology
BHARATH INSTITUTE OF HIGHER EDUCATION & RESEARCH
(Declared as Deemed to be University U/S 3 of UGC Act. 1956)
Selaiyur, Chennai-600 073.



CIRCULAR

2.04.2021

The school of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on Certificate Course of BUILDING WEB APPLICATIONS IN PHP for the benefit of students. This course is scheduled from 6.04..2021 to 16.04.2021. 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. Raya bhushana	Professor
2	Ns. N. Palya	Assistant Professor

Head of Department

To

Copy to CSE

Copy to IT

HEAD OF DEPARTMENT

Department of Computer Science & Engg..

Bharath Institute of Higher Education & Research

(Declared as Deemed to be University U/S 3 of U/SC & Chennai - 600 073, INDIA



CERTIFICATE COURSE ON BUILDING WEB APPLICATIONS IN PHP

Date of Introduction of the Course: 9.05.2021

COURSE SYLLABUS

1. Introduction of Web applications in PHP

To learn and analyse Web applications that use a combination of server-side scripts (PHP and ASP) to handle the storage and retrieval of the information, and client-side scripts (JavaScript and HTML) to present information to users.

2. Web applications in PHP Fundamentals -1

The web browser or client permits the users to interact with the functions of the web developed with HTML, CSS, and JavaScript.

3. Introduction to Dynamic Web Content

It is the basic structure of a web application and how a web browser interacts with a web server. We explore the Request-Response Cycle that is the basis of the Hypertext Transfer Protocol (HTTP).

4. HyperText Markup Language (HTML)

HTML cover the basics of the HyperText Markup Language (HTML) that is the markup for web pages.

5. Cascading Style Sheets (CSS)

Describes effectively, and in context with basics of cascading Style Sheets (CSS) that allow us to style the markup for web pages.

6. Installing PHP and SQL

The task is to work through the installation steps including installing a text editor, installing MAMP or XAMPP (or equivalent), creating a MySql Database, and writing a PHP program.

7. Introduction to PHP

Begins learning PHP.

8. PHP Arrays

We learn unique aspects of arrays in the PHP language.

9. PHP Functions

We look at unique aspects of functions in PHP.

10. PHP and HTML Forms

We look at how HTML forms are created and processed in the PHP language.

COURSE OBJECTIVES

Analyze the basic structure of a PHP web application and be able to install and maintain the web server, compile, and run a simple web application and learn how databases work and how to design one, as well as how to use php MyAdmin to work with MySQL.

Specifically, the course has the following objectives:

Students will learn

- 1. Understanding basic PHP programming
- 2. Learning to design and implement simple SQL databases.
- 3. To construct Web Applications that
 - Access simple databases from PHP using dynamically generated SQL.
 - · Extract information from foreign websites.
 - Send email to potential users.
 - Perform access control using cookies.
- 4. To describe and evualate the mechanisms behind dynamic websites.
- 5.To introduce the techniques used for constructing advanced community websites.

COURSE COORDINATOR

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Chennal - 600 673, INDIA



Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

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

CERTIFICATE COURSE ON BUILDING WEB APPLICATIONS IN PHP

Date of Introduction of the Course: 09.05.2021
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,	6-04-2021(FN)	1. Introduction of Web applications in PHP To learn and analyse Web applications that use a combination of side scripts (PHP and ASP) to handle the storage and retrieve information
2	7-04-2021(FN)	2. Web applications in PHP Fundamentals -1 The web browser or client permits the users to interact with the f of the web developed with HTML, CSS, and JavaScript.
3	8-04-2021 (FN)	3 Introduction to Dynamic Web Content It is the basic structure of a web application and how a web browser interacts with a web server. We explore the Request-Response C that is the basis of the Hypertext Transfer Protocol (HTTP).
4,5	9-04-2021 (FN&AN)	4. Hypertext Markup Language (HTML) HTML cover the basics of the HyperText Markup Language (HTM is the markup for web pages.
6	11-04-2021 (FN)	5 Cascading Style Sheets (CSS) Describes effectively, and in context with basics of cascading Sheets (CSS) that allow us to style the markup for web pages.
7	12-04-2021 (FN)	6. Installing PHP and SQL The task is to work through the installation steps in installing a text editor, installing MAMP or XAMPP creating a MySQL Database, and writing a PHP program Begins learning PHP
8,9	14-04-2021 (FN) & 15-04-2021 (FN)	8. PHP Arrays We learn unique aspects of arrays in the PHP language
10	16-04-2021 (FN)	9. PHP Functions We look at unique aspects of functions in PHP.

COURSE COORDINATOR

HEAD OF THE DEPARTMENT

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Department Of Computer Science & Engg.,
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Chennal - 600 673, INDIA



INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Dectared as Deemed-to-be University under section 3 of UGC Act, 1956)
(Vide Notification No. F.9-5/2000 - U.3, Ministry of Human Resource Development, Govt. of India, dated 4° July 2002)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING BUILDING WEB APPLICATIONS IN PHP DATE OF INTRODUCTION:09-05-2021

STUDENT NAME LIST

. No	REG.NO	NAME OF THECANDIDATE
1	U15CS001	ABHIJEET KUMAR
2	U15CS002	ABHIJIT KUMARGUPTA
3	U15CS003	ABHISHEK KUMARSINGH
4	U15CS004	ALLU SAI SIVA PRIYANKA NAIDU
5	U15CS005	AMBIKE KUMARSINGH
6	U15CS006	ANBUMANI S
7	U15CS007	ANJAR ALI
8	U15CS008	ANKAM MANJUNATH
9	U15CS009	ANNADI DHANUSH
10	U15CS010	ANNAVARAPU DIVYA
11	U15CS011	ANUMOLU YESWANTH
12	U15CS012	ARAVAPALLI SIVAVINAYA
13	U15CS013	ARAVINDHAN K R
14	U15CS014	ARVIND KUMARYADAV
15	U15CS015	ARYAN SAHU
16	U15CS016	ASHISH AGARWAL
17	U15CS017	ASHISH RANJAN
18	U15CS018	ATTANTI RAVIKANTH
19	U15CS019	BANAVATH SUNIL NAIK
20	U15CS020	BANDARU RAMESH
21	U15CS021	BATTA SIVA PRASAD
22	U15CS022	BHARATH K
23	U15CS023	BHARATHI V
24	U15CS024	BIKKI KUMAR SHA
25	U15CS025	BINGEWAR SAISHARAN
26	U15CS026	BIRADAVOLUSUCHARITHA

27	U15CS027	BODA AKHIL WESLEY
28	U15CS028	BONALA SRIDHAR RAO
	U15CS029	BRYAN STEVEPUSHPARAJ I
29	U15CS030	CHAKKA KSHITHIJA
30	0130300	CHAMARTHI
31	U15CS031	LAKSHMI NARAYANAAVINASH
32	U15CS032	CHANDRA KANTCHOUDHARY
33	U15CS033	CHAPPIDI LAKSHMIKANTH REDDY
34	U15CS034	CHIDIPOTHU PRATHYUSHA
35	U15CS035	CHINTAGINJALA VENKATA SRI SAISRAVYA
36	U15CS036	CHOWDHARY PRASANNA KUMAR
37	U15CS037	CHUNDI VENKATA SESHASAI RAMANAPATANJALI
38	U15CS038	CILLA SAI KISHORE
39	U15CS039	D N S HRUDAYBHARADWAJ
40	U15CS040	DADAM CHAITHRA
41	U15CS041	DEEPAK KUMAR SINGH
42	U15CS042	DILLIGANESH V
43	U15CS043	DIVAKAR M
44	U15CS044	DIVYA VANI T
45	U15CS045	DODDI PUJITHA
46	U15CS046	DOOLIGANTI AKHILREDDY
47	U15CS047	DUPUGUNTLA BHANU SIVA KASINADH
48	U15CS048	GANDLUR REDDYGREESHMA
49	U15CS049	GANESH BAG
50	U15CS050	GANGARAJU RAHUL
51	U15CS051	GANGARAPU UKESH
	U15CS052	GANGU BHAGYA

COURSE COORDINATOR

HEAD OF THE DEPARTMENT

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

	emic Ye	ar	2020-202	:1							
erm	l'										
Cour	se Numb	per									
Cour	se Title		BUILDING WEB APPLICATIONS IN PHP								
Num	ber of C	redits						. /	1		
Турс	of Cour	se Regular		Electi	ve		Add-on				
jii 448											
I.	Inform	nation on the Respon	dent: (Tick	(√) Appropri	ately)						
1.		ntage of classes attend			0-60	60-80		80-100			
	0-20	20-	-40	4	0-60	00.00					
2. Number of hours per week spent on the course (Other than lecture hours)											
2.				-6	6-8		8-10				
	0-2										
3.	Prepa	reparation 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 Yes									
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Abo	(a) (b) (c) (d) (e) (f) ut the In	Enhance by skill bath Get exposed to a reconstructor: Information of the Teaching/lecture	se in the are elevant subject t Opportunit equirements	exa of specializated	nt are: ations ick (√) Approp	Ye Ye T Ir	8 8 8 10 10 10		E		
1. 2.	(a) (b) (c) (d) (e) (f) ut the In Comm	Enhance by skill ba Get exposed to a re Curiosity Better Employment Complete Course ro To Improve CGPA astructor: Information of the Teaching/lecture	se in the are elevant subject t Opportunit equirements	ea of specializated	nt are: ations ick (√) Approp	Ye Ye T Ir	8 8 8 10 10 10		E		
1. 2. 3.	(a) (b) (c) (d) (e) (f) Pace of Common Clarity Level	Enhance by skill ba Get exposed to a re Curiosity Better Employment Complete Course re To Improve CGPA astructor: Information of the Teaching/lecture ment of the Subject y of expression	se in the are elevant subject t Opportunit equirements	ea of specializated	nt are: ations ick (√) Approp	Ye Ye T Ir	8 8 8 10 10 10		E		
1. 2. 3. 4.	(a) (b) (c) (d) (e) (f) ut the In Comn Clarity Level	Enhance by skill ba Get exposed to a re Curiosity Better Employment Complete Course re To Improve CGPA astructor: Information of the Teaching/lecture ment of the Subject y of expression of preparation	se in the are elevant subject t Opportunit equirements	ea of specializated	nt are: ations ick (√) Approp	Ye Ye T Ir	8 8 8 10 10 10		E		

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cade	mic Year		2020-2021								
'erm											
Cours	e Numbe	er				D. DUD					
Cours	e Title		BUILDING	DING WEB APPLICATIONS IN PHP							
Numt	er of Cr	edits					Add-on				
Гуре	of Cours	se Regular		Elective			iuu on				
I.	Inform	nation on the Respon	ndent: (Tick (√) Appropriatel	y)						
								7	=>>		
1.	Percen	tage of classes atter		40-60		60-80		80-100			
	0-20 20-40			40.00					**		
_	Numb	er of hours per weel	k spent on the	course (Other	than lecture	e hours)					
2.	0-2	2	4-6		6-8		8-10				
	0-2										
3.	Prepa	reparation for the course by the student:									
	(i)	Have done part of		Yes							
	(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 e	e expectations for taking the course by the student are:									
	(a)	Enhance by skill l		NO							
	(b)	Get exposed to a	relevant subjec	ct		No					
	(c)	Curiosity					No				
	(d)	Better Employme					ye	8			
	(e)	Complete Course	requirements				No				
	(f)	To Improve CGP.	A					19			
Abo	ut the In	structor: Informat	on on the Res	spondent: (Tick	(√) Approp	riately)			E		
				A	В	C		D	E		
1.	Pace o	of the Teaching/lectu	ге								
2.	Comn	nent of the Subject									
3.	Clarit	y of expression			~						
4.	Level	of preparation		V							
5.	Level	of interaction							25		
6.	Acces	ssibility outside the c	lass	1							
7.		s (please specify		V							
	7-1-1-1-1-1-1-1										

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	emic Yea	ır	2020-202	1								
erm	1											
Cour	se Numb	er				D I DIID						
Cour	se Title		BUILDIN	IG WEB APPL	ICATIONS	IN PHP			_			
Num	ber of C	redits					Add-on					
Туре	e of Cour	se Regular		Elective			Add-on					
I.	Inform	nation on the Res	pondent: (Tick	(√) Appropriat	ely)							
1.	1	ntage of classes at		40-	60	60-80		80-100				
	0-20		20-40	10								
2.	Numb	er of hours per w	eek spent on th	e course (Other	than lecture	hours)						
2.	0-2		4-6		6-8		8-10					
	0.2											
3.	Prepa	reparation for the course by the student:										
	(i)	Have done part			. Yes							
	(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 N ⊙										
				1 (14domé	a wat							
4.	The ex	Enhance by skill base in the area of specializations										
	(a)	Enhance by skill base in the area of specializations										
	(b)	Get exposed to a relevant subject										
	(c)	Curiosity										
	(d)	Better Employment Opportunity Yes										
	(e)		rse requirements	3			20					
	(f)	To Improve CC	GPA		6h 4	riotaly)	70					
Abo	ut the In	structor: Inform	ation on the Re		(√) Approp	C	D		E			
				A	В	-		-				
1.	1	of the Teaching/lea						-				
2.	Comn	nent of the Subject										
3.		y of expression		~								
4.	Level	of preparation										
5.	Level	of interaction		V								
6.	Acces	sibility outside the	class	V								
7.	Other	s (please specify					· ·					
	1								oor			

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INSTITUTE OF HIGHER EDUCATION AND RESEARCH



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY

Requisition Letter

Date:31.03.2021

From
Dr. K.P.Kaliyamurthie,
Professor & Head,
Department of CSE,
Bharath Institute of Higher Education and Research,
Chennai

To PRO VICE CHANCELLOR, Bharath Institute of Higher Education and Research, Chennai

Respected sir

Subject: Request of Permission to conduct a value-added course on "RECENT TRENDS IN BIG DATA ANALYTICS"-(ONLINE) -Reg

With reference to above subject, I would like to bring to your kind notice that, our department interested to organize value added course on "RECENT TRENDS IN BIG DATA ANALYTICS" in our campus premises from 6.04.2021, students would be participating in this course. We request you kindly to give permission to organize this event.

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

Submitted to Principal for approval to organize this value-added course.

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Bharath Institute Of Higher Education & Rosearch
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Chennai - 600 073, INDIA

DEAN ENGINEERING DEAN (Engineering)

Bharath Institute of Science & Technology
BHARATH INSTITUTE OF HIGHER EDUCATION & RESEARCH
(Declared as Deemed to be University U/S 3 of UGC Act. 1956)
Selaiyur, Chennai-600 073.



CIRCULAR

2.04.2021

The school of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on Certificate Course of RECENT TRENDS IN BIG DATA ANALYTICS for the benefit of students. This course is scheduled from 6.04.2021 to 17.04.2021. 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. Nolini	Professor
2	Ma. Soi Gowtham	Assistant Professor

Head of Department

To

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Department Of Computer Science & Engg.,

Bharath Institute Of Higher Education & Research
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Chennal - 600 073, INDIA



CERTIFICATE COURSE ON RECENT TRENDS IN BIG DATA ANALYTICS

Date of Introduction of the Course: 9.05.2021

COURSE SYLLABUS

1. Introduction to Big data

To learn and analyse Big Data which is a collection of data that is huge in volume, yet growing exponentially with time.

2. Understanding Big Data Storage

Demonstrates a conceptual understanding of collection and management of large datasets.

3. Introduction to HDFS Architecture

HDFS is a distributed file system that handles large data sets running on commodity hardware.

4. Map Reduce Programming Model

Map Reduce is a programming model for processing large data sets with a parallel, distributed algorithm on a cluster. Introduction to Map Reduce Programming Model.

5. Advanced Analytical Theory and Methods

Describes effectively, and in context with Advanced analytic techniques include those such as data/text mining, machine learning, pattern matching, forecasting, visualization, semantic analysis, sentiment analysis, network and cluster analysis, multivariate statistics, graph analysis, simulation, complex event processing, neural networks.

6. Overview of Clustering and Classification

Understanding clustering and classification techniques.

7. Association rules

Association rule mining, at a basic level, involves the use of machine learning models to analyze data for patterns, or co-occurrences, in a database.

8. Introduction to Recommendation system

A recommender system is a type of information filtering system.

9. Introduction to Stream concepts

Big data streaming is a process in which big data is quickly processed in order to extract real-time insights from it.

10. NOSQL DATA MANAGEMENT FORBIGDATA

NoSQL is a better choice for businesses whose data workloads are more geared toward the rapid processing and analyzing of vast amounts of varied and unstructured data, aka Big Data

11. Visualization

Data visualization is the graphical representation of information and data

COURSE OBJECTIVES

To learn and analyse and visualize the process of inspecting, cleansing, transforming, and modelling data with the goal of discovering useful information, informing conclusions, and supporting decision-making.

Specifically, the course has the following objectives:

Students will learn

- 1. To study the basic technologies that forms the foundations of Big Data.
- 2. To study the programming aspects of cloud computing with a view to rapid prototyping of complex applications.
- 3. To understand the specialized aspects of big data including big data application, and big dataanalytics.
- 4. To study different types Case studies on the current research and applications of the Hadoop and big data in industry.

COURSE COORDINATOR

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Department Of Computer Science & Engg., Bharath Institute Of Higher Education & Rosearch (Occlared as Deemed to be University U/S 3 Of UGC Act, 1956) Chennal - 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 RECENT TRENDS IN BIG DATA ANALYTICS

Date of Introduction of the Course: 09.05.2021

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	6-04-2021(FN)	1.Introduction to Big data To learn and analyse Big Data which is a collection of data that is huge in volume, yet growing exponentially with time.
2	7-04-2021 (FN)	2. Understanding Big Data Storage Demonstrates a conceptual understanding of collectionand management of large datasets.
3	8-04-2021 (FN)	3. Introduction to HDFS Architecture is a distributed fil system that handles large datasets running on commodity hardware.
4,5	9-4-2021 (FN & AN)	4. Map Reduce Programming Model Map Reduce is a programming model for processing larged data sets with a parallel, distributed algorithm on a cluster Introduction to Map Reduce Programming Model.
6	11-04-2021 (FN)	5. Advanced Analytical Theory and Methods Describes effectively, and in context with Advanced analytic techniques include those such as data/text mining, machine ext
7	12-04-2021 (FN)	6. Overview of Clustering and Classification . Understanding clustering and classification

8	13-04-2021 (FN)	7. Association rules Association rule mining, at a basic level, involves the use of machine learning models to analyze data for patterns, or co-occurrences, in a database.
9	14-04-2021 (FN)	8. Introduction to Recommendation system A recommender system is a type of information filtering system.
10	15-04-2021 (FN)	9. Introduction to Stream concepts Big data streaming is a process in which big data is quickly processed in order to extract real-time insights from it
11, 12	16-04-2021 (FN & AN)	10. NOSQL DATA MANAGEMENT FORBIGDATA NoSQL is a better choice for businesses whose data workloads are more geared toward the rapid processing and analyzing of vast amounts of varied and unstructured data, aka Big Data.
13.	18-04-2021 (AN)	11.Visualization Data visualization is the graphical representation of information and data

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Channal -600 073, INDIA



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

RECENT TRENDS IN BIG DATA ANALYTICS

B.Tech Computer Science and Engineering (2020-2021)

S. No	REG.NO	NAME OF THE CANDIDATE
1	U15CS001	ABHIJEET KUMAR
2	U15CS002	ABHIJIT KUMAR GUPTA
3	U15CS003	ABHISHEK KUMAR SINGH
4	U15CS004	ALLU SAI SIVA PRIYANKA NAIDU
5	U15CS005	AMBIKE KUMAR SINGH
6	U15CS006	ANBUMANI S
7	U15CS007	ANJAR ALI
8	U15CS008	ANKAM MANJUNATH
9	U15CS009	ANNADI DHANUSH
10	U15CS010	ANNAVARAPU DIVYA
11	U15CS011	ANUMOLU YESWANTH
12	U15CS012	ARAVAPALLI SIVA VINAYA
13	U15CS013	ARAVINDHAN K R
14	U15CS014	ARVIND KUMAR YADAV
15	U15CS015	ARYAN SAHU
16	U15CS016	ASHISH AGARWAL
7	U15CS017	ASHISH RANJAN
8	U15CS018	ATTANTI RAVIKANTH .
9	U15CS019	BANAVATH SUNIL NAIK
0	U15CS020	BANDARU RAMESH
1	U15CS021	BATTA SIVA PRASAD
2	U15CS022	BHARATH K
3	U15CS023	BHARATHI V
4	U15CS024	BIKKI KUMAR SHA
5	U15CS025	BINGEWAR
5	U15CS026	BIRADAVOLU SUCHARITHA
7	U15CS027	BODA AKHIL WESLEY
8	U15CS028	BONALA SRIDHAR RAO
,	U15CS029	BRYAN STEVE PUSHPARAJ I
)	U15CS030	CHAKKA KSHITHIJA

31	U15CS031	CHAMARTHI LAKSHMI NARAYANA AVINASH	
32	U15CS032	CHANDRA KANT CHOUDHARY	
33	U15CS033	CHAPPIDI LAKSHMIKANTH REDDY	
34	U15CS034	CHIDIPOTHU PRATHYUSHA	
35	U15CS035	CHINTAGINJALA VENKATA SRI SAI SRAVYA	
36	U15CS036	CHOWDHARY PRASANNA KUMAR	
37	U15CS037	CHUNDI VENKATA SESHASAI RAMANAPATANJALI	
38	U15CS038	CILLA SAI KISHORE	
39	U15CS039	D N S HRUDAY BHARADWAJ	
40	U15CS040	DADAM CHAITHRA	
41	U15CS041	DEEPAK KUMAR SINGH	
42	U15CS042	DILLIGANESH V.	
43	U15CS043	DIVAKAR M	
44	U15CS044	DIVYA VANI T	
45	U15CS045	DODDI PUJITHA	
46	U15CS046	DOOLIGANTI AKHIL REDDY	

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Chennal - 600 073, INDIA

X	mic Year		2020-2021										
erm													
Cours	se Numbe	r											
Cour	se Title		Recent Trend	ls In Big Data	Analytics								
Num	ber of Cre	dits			_		Add-on						
Туре	of Course	Regular		Elective			- Aud-on						
I.	Information on the Respondent: (Tick ($$) Appropriately)												
1.		Percentage of cla		1 40 40		60-80	T	80-100	~				
	0-20	20	-40	40-60		00-00]					
_	Number	er of hours per week	spent on the co	ourse (Other th	an lecture l	hours)							
2.	0-2	2-4		4-6	T	6-8		8-10					
	0-2		<u> </u>										
3.	Prepar	ation 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 e	e 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 Yes Instructor: Information on the Respondent: (Tick (√) Appropriately)											
Ab	out the I	structor: Informati	on on the Resp	ondent: (Tick	√) Appropr	rately)	r		E				
					В		-						
	D	of the Teaching/lectur	re		~								
_	Pace	ment of the Subject											
1.	C	ment of the Subject		V									
2.	1												
2.	Clarit	y of expression											
2. 3. 4.	Clarit	y of expression of preparation											
2. 3. 4. 5.	Clarit Leve	y of expression of preparation of interaction	laes	~									
2. 3. 4.	Clarit Leve Leve	y of expression of preparation	lass	~									

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Bharath inclitute Of Higher Education & Rosearch
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Chennal - 500 073, INDIA

Academic Year			2020-2021									
Term	1											
Cou	rse Numb	ег										
Cou	rse Title		Recent	Recent Trends In Big Data Analytics								
Nun	ber of Cr	redits										
Туре	of Cours	se Regular		Ele	ective			Add-on				
		'										
I.	Inform	Information on the Respondent: (Tick (\sqrt{)} Appropriately)										
1.												
1.		Percentage of classes attended										
	0-20	2	0-40		40-60		60-80		80-100			
2.	Numbe	er of hours per wee	k spent on	the course (Other ther	lootuu	n hause)					
	0-2		-4	the course (4-6	lectur	6-8	Т	8-10			
					4-0		0-8		8-10			
3.	Prepar	ration for the course	e by the st	udent:								
	(i)	Have done part of	this course	earlier	Ne							
	(ii)	Has adequate prior exposure to the prerequisites										
	(iii)	Had to pickup relevant additional topics through concurrent study										
	(iv)	Have no exposure					les					
4.	TOL											
4.		pectations for takin										
	(a)	Enhance by skill b			lizations	Yes						
	(b)	Get exposed to a re	elevant sub	oject		Yes						
	(c)	Curiosity				Yes						
	(d)	Better Employmen	-5.45	1000		Yes						
	(e)	Complete Course	_	its		40						
Abar	(f)	To Improve CGPA				Ye	d					
Abot	it the Ins	tructor: Information	on on the l	Respondent:								
						В	С	D		E		
1.	Pace of	the Teaching/lecture	e						_			
2.	Comme	ent of the Subject		~								
3.	Clarity	of expression			-							
4.	Level o	Level of preparation			-							
5.	Level o	evel of interaction		~								
6.	Accessi	bility outside the cla	ISS	~								
7.	Others	(please specify		~	-							
								1				
A: Excellent B: Very			Good	C: Go	ood		D: Satisfacto	ory	E: Poor	1		

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Academic Year			2020-2	2020-2021								
Term												
Cour	se Numb	ег										
Cour	se Title		Recen	Recent Trends In Big Data Analytics								
Num	ber of Cr	edits		•								
Туре	of Cours	se Regular			Elective			Add-on	V	/		
I.	Inform	nation on the R	espondent: (T	ick (√)	Appropriate	ely)						
1.		Percentage of classes attended										
	0-20		20-40		40-6	0	60-80		80-100			
2.	Numb	an of house non		- 41	(04)							
۷.	0-2	er of hours per	2-4	n the co		tnan lectu	6-8		8-10	T		
	0-2		2-4		4-6		0-8		8-10			
3.	Prepar	ration for the c	ourse by the s	tudent:								
	(i)	Have done pa	rt of this cours	se earlier			No					
	(ii)	Has adequate prior exposure to the prerequisites Yes										
	(iii)	Had to pickup relevant additional topics through concurrent study										
	(iv)	Have no exposure to the background material										
			CONTRICT ONE									
4.		xpectations for	7	15 O		XII SERVICE -						
	(a)		kill base in the		specializatio	ns 4	es					
	(b)	-	to a relevant su	ıbject		4	es					
	(c)	Curiosity		Yes								
	(d)			nt Opportunity Yes								
	(e)	Description of the second of t	urse requireme	40								
	(f)	To Improve C					las					
Abo	ut the In	structor: Infor	mation on the	Respor	ident: (Tick							
						В	С	D		E		
1.	Pace o	f the Teaching/l	ecture									
2.	Comm	ent of the Subje	ect		V							
3.	Clarity	el of preparation				~						
4.	Level				~	100						
5.	Level				V							
6.	Acces	sibility outside t	he class									
7.	Others	(please specify				~						
			1				Inchi					
A: I	Excellent	B	Very Good		C: Good		D: Satisfac	ctory	E: Poo	or		

