

### Requisition Letter

Date:20.05.2019

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 "DATA ENTRY" -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 "DATA ENTRY" in our campus premises from 29.05.2019, students would be participating in this course. We request you kindly to give permission to organize this event.

Venue: CSE Smart Room

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
(Doclared as Deemed to be University U/S 3 Of UGC Act, 1933)

Chennal - 600 073, INDIA

Selaiyur,
Chennai-600 073.
India

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.



### **CIRCULAR**

24.05.2019

The school of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on Certificate Course of DATA ENTRY for the benefit of students. This course is scheduled from 29.05.2019 to 10.06.2019 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. Micheal	Professor
2	Mrs. S. Kavitha	Assistant Protessar.

**Head of Department** 

To

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HEAD OF DEPARTMENT

Department Of Computer Science & Endg.,
Bharath Institute Of Higher Education & Resourch
(Doctared as Deemed to be University USS Of UGC Aug.)

Chennal - 500 073, INDIA



### CERTIFICATE COURSE ON DATA ENTRY

Date of Introduction of the Course: 03.07.2019

### **COURSE SYLLABUS**

### 1. Introduction to Data entry

Data entry is the process of transcribing information into an electronic medium such as a computer or other electronic device.

### 2. Getting known to Excel

Microsoft Excel is a software program produced by Microsoft that allows users to organize, format and calculate data with formulas using a spreadsheet system.

### 3. Knowledge of essential formulas

Being good with formulas allows you to build elegant solutions that avoid complexity Knowledge of essential formulas

### 4. Functions in MS Excel

A function in Excel is a pre-set formula, which helps perform mathematical, statistical and logical operations

### 5. Optimization of Data

The data optimization process makes use of sophisticated data quality tools, such as those provided by precisely, to access, organize, and cleanse data.

### 6. Data Analysis

It is a collection which we need to make enhancing, classifying, summarising, interpreting, modelling and enlarging the information.

### 7. MS WORD

A form in Word is a means of soliciting and recording information. You can use forms like the one shown to enter data faster and to reduce data-entry errors.

### 8. Computer Fundamentals

A form in Word 2016 is a means of soliciting and recording information. You can use forms like the one shown to enter data faster and to reduce data-entry errors.

### 9. Spreadsheets

There are several ways to add data into a spreadsheet. The simplest data entry technique involves typing the data into a spreadsheet by hand.

# 10. Basic knowledge of functions, formulas used

To manipulate data and to extract useful information from Excel worksheets, formulas and worksheet functions play very important role.

# 11. Creating, Editing, Formatting and Managing Data in Spreadsheets

Good formatting will help enhance your data in several ways: Formatting cells so they present data correctly will give more value to your data. Using styles (such as table styles) can make your data stand out and helps the reader to focus on important parts of the worksheet.

### **COURSE OBJECTIVES**

To learn and acquire all the necessary technical skills required for the data entry through MS Office software. This course helps the students to know the tips and tricks of updating, manipulating, editing the data.

### Specifically, the course has the following objectives:

### Students will learn

- 1. Understand Data entry and home based entry.
- 2. Know the qualifications and skills required for Data entry.
- 3. Get ideas on how to improve skill
- 4. Ability to multitask effectively.
- 5. Strong written and verbal communication skills.
- 6. Ability to perform repetitive tasks with a high degree of accuracy.

G. Mid

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, 1955)

Chennal - 600 073, INDIA



### CERTIFICATE COURSE ON DATA ENTRY

Date of Introduction of the Course: 03.07.2019

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		1. Introduction to Data entry
	29-05-2019(FN)	Data entry is the process of transcribing information into an electronic medium such as a computer or other electronic device.
2	30-05-2019 (FN)	2. Getting known to Excel
		Microsoft Excel is a software program produced by Microsoft that allows users to organize, format and calculate data with formulas using a spreadsheet system.
3	31-05-2019 (FN)	3. Knowledge of essential formulas
		Being good with formulas allows you to build elegant solutions that avoid complexity Knowledge of essential formulas
4,5	1-06-2019 (FN &	4. Functions in MS Excel
	AN)	A function in Excel is a pre-set formula, which helps perform mathematical, statistical and logical operation
6	3-06-2019 (FN)	5. Optimization of Data
		The data optimization process makes use of sophisticated data quality tools, such as those provided by precisely, to access, organize, and cleanse data.
7	4-08-2016 (FN)	6. Data Analysis
		It is a collection which we need to make enhancing, classifying, summarising, interpreting, modelling and enlarging the information.
8	5-06-2019 (FN)	7. MS WORD

		A form in Word is a means of soliciting and recording information. You can use forms like the one shown to enter data faster and to reduce dataentry errors.
9	6-06-2019 (FN)	8. Computer Fundamentals
		A form in Word 2016 is a means of soliciting and recording information. You can use forms like the one shown to enter data faster and to reduce dataentry errors.
10	7-06-2019 (FN)	9. Spreadsheets
		There are several ways to add data into a spreadsheet. The simplest data entry technique involves typing the data into a spreadsheet by hand.
11,12	8-06-2019 (FN & AN)	10. Basic knowledge of functions, formulas used  To manipulate data and to extract useful information from Excel worksheets, formulas and worksheet functions play very important role.
13	10-06-2019(FN)	11. Creating, Editing, Formatting and Managing Data in Spreadsheets
		Good formatting will help enhance your data in several ways: Formatting cells so they present data correctly will give more value to your data. Using styles (such as table styles) can make your data stand out and helps the reader to focus on important parts of the worksheet.

a. Midu 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 UP 3 C. U.C. Act. 1958]
Chennal - 600 073. INDIA



# Tharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Declared as Deemed-to-be University under section 3 of UGC Act. 1956)
(Note Notification No. 59-52000: U.3. Ministry of Human Resource Development. Govt. of India. dated 4" July 2002)

### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Academic Year 2019-20 B.Tech Computer Science and Engineering - First Year

S.No	REG.N0	NAME OF THE CANDIDATE
1	U19CB001	THANNEERU RAM PRIYATHAM CHOWDARY
2	U19CB002	THARALA PRANAY
3	U19CB003	THATIPARTHI PAVAN KALYAN REDDY
4	U19CB004	THELLAGORLA RAM GOPI
5	U19CB005	THELLURI HEMANTH RATNA SAGAR REDDY
6	U19CB006	THIRUMAL REDDY NITHIN KUMAR REDDY
7	U19CB007	THIRUMALAI VASAN R
8	U19CB008	THIRUMANI THARUN
9	U19CB009	THOKALA SRI RAM CHARAN
10	U19CB010	THOTA ANAND
11	U19CB011	THOTA BHARATH KUMAR
12	U19CB012	THOTA DINESH
13	U19CB013	THOTA HEMANTH
14	U19CB014	THOTAKURA VEERA SATYA SAI CHANDRA
15	U19CB015	THULLURI SAI RAM
16	U19CB016	TIKKALA PARTHIV ADITYA
17	U19CB017	TIRUMALASETTI PAVAN SAI
18	U19CB018	TIRUVEEDULA SATISH
19	U19CB019	TOGARANA YASWANTH
20	U19CB020	TOKLE PRASAD UDDHAV
21	U19CB021	TUMMALA ANJAN MAHESH BABU
22	U19CB022	TUNGALA TEJOSAI
23	U19CB023	ULLI MANIKANTA
24	U19CB024	UMMAGANI VIGNESH
25	U19CB025	UNDAMATLA VENKATA PRASAD
26	U19CB026	UNDELA LEKHANA
27	U19CB027	UNDRA VAMSI KRISHNA
28	U19CB028	S UPENDRA REDDY
29	U19CB029	UPPALA HARSHAVARDHAN SAI
30	U19CB030	UPPALA RAKESH
31	U19CB031	UPPALA SAI PRASAD
32	U19CB032	UPPALAPATI PAVAN KUMAR
33	U19CB033	UPPARI SAI RAHUL
34	U19CB034	UPPU SATHISH
35	U19CB035	UPPUTURI AKANKSHA
36	U19CB036	VADDELLI SRIJA
37	U19CB037	VADDI AKASH

38	U19CB038	VADLA SAI BHARGAVA ACHARI
		VADLA SHRAVAN KUMAR
39	U19CB039	
40	U19CB040	VADLA VENKAT JAYANTH ACHARI
41	U19CB041	VADLAKONDA SAI KIRAN
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42	U19CB042	VADLAMUDI ANIL
43	U19CB043	VADLAMUDI MAHESH
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44	U19CB044	VAKKALAGADDA BHARGAVI
45	U19CB045	VALLABHASETTI DURGA KALYAN
43	017CD043	VALEABILICETTI Detterrib

G. Mich. Course Cooridnator

HEAD OF DEPARTMENT Department Of Computer Science & Engg.

Bharath Institute Of Higher Education & Research

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Ac	ademic Year 2019-2020													
Tei	rm													
Co	urse Num	ber												
Co	urse Title			DAT	A ENTRY	(								
Nu	mber of C	redits												
Тур	oe of Cour	se	Regular			Elec	tive				Add-on		/	
I.	Inform	nation	on the Res	spondent: (	(Tick (√) A	pprop	riately)							
1.	Percer	ntage o	of classes a	ttended										
	0-20			20-40			40-60	,		60-80		80	0-100	
2.	Numb	er of h	ours per w	eek spent	on the cou	rse (O	ther the	n lecti	ıre hou	re)				
	0-2		outo per	2-4			4-6	ii icctt	ire nou	6-8		R	-10	
									-	0-0			-10	
3.	Prepai	ration	for the cou	rse by the	student:									
	(i)	Have	done part	of this cour	rse earlier			No	0					
	(ii)	Has	adequate pi	rior exposur	re to the pro	erequis	ites		42	5				
	(iii)	Had	to pickup r	elevant add	itional topi	cs thro	ugh cond	current	t study	Ne	>			
	(iv)	Have	no exposu	re to the ba	ckground r	nateria	l			YES				
4.	The ex	pectati	ions for tal	king the co	urse by the	e stude	nt are:							
	(a)	Enha	nce by skil	l base in the	e area of sp	ecializ	ations	V	23					
	(b)	Get e	exposed to a	a relevant si	ubject			6	12 S					
	(c)	Curio	sity						Yes					
	(d)	Bette	r Employm	ent Opport	unity				40	c				
	(e)	Comp	olete Cours	e requireme	ents				4	S				
	(f)	To Im	prove CGI	PA					48	5				
Abo	ut the Ins	tructo	r: Informa	tion on the	Responde	nt: (Ti	ck (√) A	pprop						
						A		В		С	D			E
1.	Pace of	the Tea	ching/lectu	ıre										
2.	Comme	nt of th	e Subject			/								
3.	Clarity o	of expr	ession			/								
4.	Level of	fprepar	ration			/								
5.	Level of	interac	ction				/							
6.	Accessil	oility o	utside the c	lass	YES	/								
7.	Others (	please s	specify		YES									
A: E:	xcellent		B: Ve	ry Good	C:	Good	1		D: Sat	tisfactor	у	E:	Poor	

HEAD OF THE DEPARTMENT

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Department Of Computer Science & Engg.,
Rharath Institute Of Higher Education Control

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Ac	cademic Y	nic Year 2019-2020									
Te	rm										
Co	urse Num	ber									
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I.	Infor	nation on the Re	spondent: (	Tick (√) Ap	propri	ately)					
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	0-20		20-40		40	)-60	. 6	60-80		80-100	
· ·	Numb	er of hours per v	veek spent o	on the cour	se (Oth	er than lec	ture hours	)			
	0-2		2-4		4-6	6	6	5-8		8-10	
		ration for the cou	-								
	(i)	Have done part					to				
	(ii)	Has adequate p	rior exposur	e to the prei	equisite	es	423				
	(iii)	Had to pickup r	elevant addi	itional topic	s throug	h concurre	nt study	No			
	(iv)	Have no exposu	ire to the bac	ckground m	aterial		C	les			
,	The ex	pectations for ta	king the cou	irse by the	student	are:					
	(a)	Enhance by skil	l base in the	area of spe	cializati	ons (	123				
	(b)	Get exposed to	a relevant su	bject			Yes				
	(c)	Curiosity					400				
	(d)	Better Employm	ent Opportu	inity			()				
	(e)	Complete Cours	e requireme	nts			1				
	(f)	To Improve CGI	PA				400				
ou	t the Inst	ructor: Informa	tion on the	Responden	t: (Tick	(√) Appro	9とら priately)				
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HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT

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

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Ac	ademic Ye	ar	2	019-2020	)						
Te	rm										
Co	urse Numb	er									
Co	urse Title		D	ATA EN	ITRY						
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Тур	e of Cours	e Regi	ular		Elec	tive		A	Add-on		
I.	Inform	ation on t	he Responder	nt: (Tick	(√) Approp	riately)					
1.	Percen	tage of cla	sses attended								
1.	0-20	Tage of the	20-40			40-60		60-80		80-100	
2	Number of hours per week spent on the course (Other than lecture hours)										
2.		r of nours	2-4	int on th		4-6		6-8		8-10	
	0-2		2-4			4-0					
3.	Prepara	ation for tl	ne course by	the stude	ent:						
	(i)	Have don	e part of this	course ea	rlier		N	9			
	(ii)		uate prior exp				M				
	(iii)		ckup relevant				rent study	Yes			
	(iv)	Have no e	exposure to the	e backgro	ound materia	1	1	160			
4.	The ext	ectations	for taking the	course	by the stude	ent are:					
	(a)		y skill base ir				Yes				
	(b)		ed to a releva				Yes				
	(c)	Curiosity					Yes				
	(d)	Better Em	ployment Opp	ortunity			Yes				
	(e)		Course requir				Yes				
	(f)	To Improv	e CGPA				Yes	•			
Abou	it the Inst	ructor: Inf	formation on	the Res	pondent: (T	ick (√) App	propriately)				
					A	В		С	D		E
1.	Pace of t	he Teachin	g/lecture								
2.	Commen	t of the Sul	bject								
3.		f expression									
1.		preparation									
5.		interaction				/					
5.		ility outside			YES /						
7.	Others (p	lease speci			YES		D: 0-4	infacto-	v	E: Poor	1
A: Ex	cellent		B: Very Good	t	C: Good	l	D: Sat	isfactor	у	B. 1001	

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, 1922)
Chennai - 600 073, INDIA



CERTIFICATE OF PARTICIPATION



# MR.THOTA ANAND

For actively participating in the value added course "DATA ENTRY "Conducted by School of Computing, BII1ER

from 29-05-2019 to 10,06-2019

S. Mich

Head of the Department

Director

Course Coordinator

### CERTIFICATE COURSE ON DATA ENTRY

**Introduction of the Course: 3.07.2019** 



G. Mid **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

Chemasi - 600 073. INDIA



# Bharath

### NSTITUTE OF HIGHER EDUCATION AND RESEARCH

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



### BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY

No.173, Agharam Road, Selaiyur, Chennai , T.N - 600 073.

### **Requisition Letter**

Date:20.05.2019

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 "NETWORKING" - 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 "NETWORKING" in our campus premises from 29.05.2019, students would be participating in this course. We request you kindly to give permission to organize this event.

Venue: CSE Smart Room

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

OF HIGHER EDUC ned to be University U.S 3, Selaiyur, Chennai-600 073. India

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

HOD

HEAD OF DEPARTMENT

Department, in trengenier Grience & Engg.,
Bharath in the Characher duvertion & Research
[Occlared as Desniture by University U/S 3 Of UGC Act, 1956]

Chemai - 800 073, 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**

24.05.2019

The school of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on **Certificate Course of NETWORKING** for the benefit of students. This course is scheduled from 24.05.2019 to 10.6.2019 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. Nalini	Brokerson
7	Mrs. R. Maniska	

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 Act, 1956)

Chennai - 600 073, INDIA



### CERTIFICATE COURSE ON NETWORKING

Date of Introduction of the Course: 03.07.2019

### **COURSE SYLLABUS**

### 1. Introduction to Networking

A network, is a collection of computers and other hardware components interconnected by communication channels that allow sharing of resources and information

### 2. Networking Standards and the OSI Model

It is a layered, abstract definition for communications protocol and computer network protocol design.

### 3. Transmission Basics and Networking Media

In data communication terminology, a transmission medium is a physical path between the transmitter and the receiver i.e. it is the channel through which data is sent from one place to another.

### 4. Introduction to TCP/IP Protocols Topologies and Ethernet Standards

TCP/IP, in full Transmission Control Protocol/Internet Protocol, standard Internet communications protocols that allow digital computers to communicate over long distances.

### 5. Network Hardware

Networking hardware. Computers need networking hardware in order to connect to each other. Routers, hubs, switches and bridges are all pieces of networking equipment that can perform slightly different tasks.

### 6. WANs and Remote Connectivity

Wide-area network (WAN) is a collection of <u>local-area networks</u> (LANs) or other networks that communicate with one another. A WAN is essentially a network of networks, with the Internet the world's largest WAN.

### 7. Wireless Networking

A wireless network is a computer network that uses wireless data connections between network nodes.

### 8. Network Operating Systems Voice and Video over IP

Voice over IP converts data, such as voice or video, into a digital signal and transfers it over the internet as digital data packets. In order to use VoIP technology, you need a VoIP service or application to facilitate the calls, internet access, and a SIP trunk or VoIP provider.

### 9. Network Security.

It is a set of rules and configurations designed to protect the integrity, confidentiality and accessibility of computer networks and data using both software and hardware technologies.

### 10. Troubleshooting Network Problems

A Network Monitoring (or Network Performance Monitoring) tool monitors end-to-end network performance to identify network issues affecting your end-users and customers even if those network problems may reside outside of your local network infrastructure.

### 11. Ensuring Integrity and Availability

Confidentiality is limiting data access, integrity is ensuring your data is accurate, and availability is making sure it is accessible to those who need it.

### **COURSE OBJECTIVES**

To learn and analyse and visualize about computer network organization and implementation, obtaining a theoretical understanding of data communication and computer networks, and gaining practical experience in installation, monitoring, and troubleshooting of current LAN systems.

Specifically, the course has the following objectives:

### Students will learn

- 1. To develop an understanding of computer networking basics
- 2. To develop an understanding of different components of computer networks, various protocols, modern technologies and their applications.
  - 3. Recognize the technological trends of Computer Networking.
  - 4. Discuss the key technological components of the Network.

Cours Coordinator

5. Evaluate the challenges in building networks and solutions to those.

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 - 60G 073, INDIA



### **INSTITUTE OF HIGHER EDUCATION AND RESEARCH**

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

### CERTIFICATE COURSE ON NETWORKING

Date of Introduction of the Course: 03.07.2019

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	DATE	1. Introduction to Networking
	29-05-2019(FN)	A network, is a collection of computers and other hardware components interconnected by communication channels that allow sharing of resources and information.
2	30-05-2019 (FN)	2. Networking Standards and the OSI Model
		It is a layered, abstract definition for communications protocol and computer network protocol design.
3	31-05-2019 (FN)	3. Transmission Basics and Networking Media
		In data communication terminology, a transmission medium is a physical path between the transmitter and the receiver i.e. it is the channel through which data is sent from one place to another.
4	1-06-2019 (FN & AN)	4. Introduction to TCP/IP Protocols Topologies and Ethernet Standards
		TCP/IP, in full Transmission Control Protocol/Internet Protocol, standard Internet communications protocols that allow digital computers to communicate over long distances.
5	3-06-2019 (FN)	5. Network Hardware
		Networking hardware. Computers need networking hardware in order to connect to each other. Routers, hubs, switches and bridges are all pieces of networking equipment that can perform slightly different tasks.

		to the first of the second of
6	04-06-2019 (FN)	6. WANs and Remote Connectivity
		Wide-area network (WAN) is a collection of <u>local-area networks</u> (LANs) or other networks that communicate with one another. A WAN is essentially a network of networks, with the Internet the world's largest WAN.
7	05-06-2019 (FN)	7. Wireless Networking
		A wireless network is a computer network that uses wireless data connections between network nodes.
8	06-06-2019 (FN)	8. Network Operating Systems Voice and Video over IP
		Voice over IP converts data, such as voice or video, into a digital signal and transfers it over the internet as digital data packets. In order to use VoIP technology, you need a VoIP service or application to facilitate the calls, internet access, and a SIP trunk or VoIP provider.
9	07-06-2019(FN)	9. Network Security.
		It is a set of rules and configurations designed to protect the integrity, confidentiality and accessibility of computer networks and data using both software and hardware technologies.
10	08-06-2019 (FN	10. Troubleshooting Network Problems
	& AN)	A Network Monitoring (or Network Performance Monitoring) tool monitors end-to-end network performance to identify network issues affecting your end-users and customers - even if those network problems may reside outside of your local network infrastructure.
11	10-06-2019 (AN)	11. Ensuring Integrity and Availability
		Confidentiality is limiting data access, integrity is ensuring your data is accurate, and availability is making sure it is accessible to those who need it.

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)

Chennai - 600 673, INDIA



# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING Academic Year 2019-20

**B.Tech Computer Science and Engineering - First Year** 

S.No		NAME OF THE CANDIDATE
1	U19CB001	THANNEERU RAM PRIYATHAM CHOWDARY
2		THARALA PRANAY
3	U19CB003	THATIPARTHI PAVAN KALYAN REDDY
4	U19CB004	THELLAGORLA RAM GOPI
5	U19CB005	THELLURI HEMANTH RATNA SAGAR REDDY
6	U19CB006	THIRUMAL REDDY NITHIN KUMAR REDDY
7	U19CB007	THIRUMALAI VASAN R
8	U19CB008	THIRUMANI THARUN
9	U19CB009	THOKALA SRI RAM CHARAN
10	U19CB010	THOTA ANAND
11	U19CB011	THOTA BHARATH KUMAR
12	U19CB012	THOTA DINESH
13	U19CB013	THOTA HEMANTH
14	U19CB014	THOTAKURA VEERA SATYA SAI CHANDRA
15	U19CB015	THULLURI SAI RAM
16	U19CB016	TIKKALA PARTHIV ADITYA
17	U19CB017	TIRUMALASETTI PAVAN SAI
18	U19CB018	TIRUVEEDULA SATISH
19	U19CB019	TOGARANA YASWANTH
20	U19CB020	TOKLE PRASAD UDDHAV
21	U19CB021	TUMMALA ANJAN MAHESH BABU
22	U19CB022	TUNGALA TEJOSAI
23	U19CB023	ULLI MANIKANTA
24		UMMAGANI VIGNESH
25	U19CB025	UNDAMATLA VENKATA PRASAD
26	U19CB026	UNDELA LEKHANA
27	U19CB027	UNDRA VAMSI KRISHNA
28	U19CB028	S UPENDRA REDDY
29	U19CB029	UPPALA HARSHAVARDHAN SAI
30	U19CB030 U	UPPALA RAKESH
31		UPPALA SAI PRASAD
32	U19CB032 U	UPPALAPATI PAVAN KUMAR
33		JPPARI SAI RAHUL
34		JPPU SATHISH
35		JPPUTURI AKANKSHA

Course Coordinator

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)
Chennai - 600 073, INDIA

	-												
Aca	ademic Ye	ear	2019-2	20									
Ter	m												
Co	urse Numl	per											
Cou	urse Title		NETV	WORKING									
Nui	nber of C	redits											
Тур	e of Cour	se Regular		Ele	ective			Add-on					
I.	Inforn	nation on the Re	spondent: (7	Γick (√) Appro	priately)								
,	D	Percentage of classes attended											
1.	0-20	itage of classes a	20-40	T T	40-60	1	60-80		80-100	T			
	0-20		20-40	'	40-00		00-80		80-100				
2.	Numbe	er of hours per w	veek spent o	n the course (C	Other tha	n lecture	hours)						
	0-2		2-4		4-6		6-8	T	8-10				
3.	Prepar	ation for the cou	irse by the s	tudent:									
	(i)	Have done part	of this cours	e earlier		M	0						
	(ii)	Has adequate p	rior exposure	to the prerequi	isites	4	'es						
	(iii)	Had to pickup r	elevant addit	tional topics thr	ough con	current st	tudy No						
	(iv)	Have no exposi	ure to the bac	kground materi	ial	C	les						
_							,						
4.		pectations for ta				,							
	(a)	Enhance by ski			zations		Yes						
	(b)	Get exposed to	a relevant su	bject 			Yes						
	(c)	Curiosity		•.			Yes						
	(d)	Better Employn		1 es									
	(e)	Complete Cours		nts 			Tes						
	(f)	To Improve CG					Yes						
Abou	it the Inst	tructor: Informa	tion on the										
				A		В	С	D		E			
		the Teaching/lect	ure	/									
		nt of the Subject											
•		of expression				_							
•		preparation											
		interaction											
	Accessib	oility outside the	class	YES									
	Others (p	olease specify		YES									
				+									
: Ex	cellent	B: Ve	ry Good	C: G00	od	1	D: Satisfacto	ry	E: Poor				

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Chennai - 600 073, INDIA

Academic Year 2019-20												
Term	n											
Cour	rse Numb	er										
Cour	rse Title		NETW	ETWORKING								
Num	ber of Cr	edits										
Туре	of Cours	se Regular		Ele	ective			Add-on		-		
I.	Inform	nation on the Res	spondent: (T	ick (√) Appro	priately)							
1.	Percen	tage of classes a	ttandad									
1.	0-20	tage of classes at	20-40		40.60		60.90		80-100	1		
	0-20		20-40		40-60		60-80		80-100			
2.	Numbe	er of hours per w	eek spent or	the course (	Other than	n lecture hou	ırs)					
	0-2		2-4		4-6		6-8		8-10	-		
3.		ation for the cou										
	(i)	Have done part				NC	,					
	(ii)	Has adequate pr				M	es					
	(iii)	Had to pickup r				current study	No					
	(iv)	Have no exposu	ire to the bacl	kground mater	ial	40	23					
4.	The exp	pectations for ta	king the cou	rse by the stud	dent are:		-					
	(a)	Enhance by skil	l base in the	area of special	izations	Her						
	(b)	Get exposed to	a relevant sub	ject		Yes						
	(c)	Curiosity				Yes						
	(d)	Better Employm	nent Opportur	nity		Yes						
	(e)	Complete Cours	se requiremen	ts		Yes						
	(f)	To Improve CG	PA			Ye						
Abou	t the Inst	ructor: Informa	tion on the I	Respondent: (	Tick (√) A	ppropriately	y)					
				A		В	C	D		E		
1.	Pace of	the Teaching/lect	ure									
2.	Commen	nt of the Subject										
3.	Clarity o	of expression										
4.	Level of	preparation						1				
5.	Level of	interaction										
6.	Accessib	oility outside the o	class	YES								
7.	Others (p	please specify		YES								
A: Exe	cellent	B: Ve	ry Good	C: Goo	bo	D: Sa	atisfacto	rv	E: Poor	1		

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Aca	ademic Ye	ear	2019	-20							
Ter	m										
Coı	ırse Numl	per									
Coı	ırse Title		NET	WORK	ING						
Nur	nber of C	redits									
Тур	e of Cour	se Regular			Elect	ive			Add-on	/	
Ι.	Inforn	nation on the R	espondent:	Tick (√	) Appropr	riately)					
		4 C alassas	attanded								
		tage of classes	20-40	T	1	0-60		60-80		80-100	
	0-20		20-40			0-00					
	Numbe	er of hours per	week spent	on the c	ourse (Ot	her than	lecture hou	rs)			
	0-2 2-4					-6		6-8		8-10	
	Prepar	ation for the c									
	(i)	Have done pa						y	<b>^</b>		
	(ii)	Has adequate	E-1					2	m		
	(iii)	Had to pickup					rrent study		yes		
	(iv)	Have no expo	sure to the ba	ckgroun	d material			N	9		
	T	pectations for t	aking the co	uree hv	the stude	nt are:					
							C	m			
	(a)	Get exposed to									
	(b)		o a relevant s	uojeet			yes				
	(c)	Curiosity	mont Onnort	unity			Chief.				
	(d)	Better Employ			Hamburg and American		NO O				
	(e)	Complete Cou					NO				
	(f)	To Improve Co tructor: Inforn	GPA	Dosnor	dent: (Ti	ck (√) An	propriately	·)			
bou	t the Inst	tructor: Inforn	1ation on the	Respon	A	В		C	D		E
		1 m 1:/10	atura								
		the Teaching/lea									
		nt of the Subjec	t .								
		Clarity of expression									
		preparation									
		interaction	1	1	ES						
		oility outside the	class		ES						
	Others (	olease specify		Y	E3						
	cellent	n	Very Good	/	C: Good		D: Sa	tisfacto	ry	E: Poo	r

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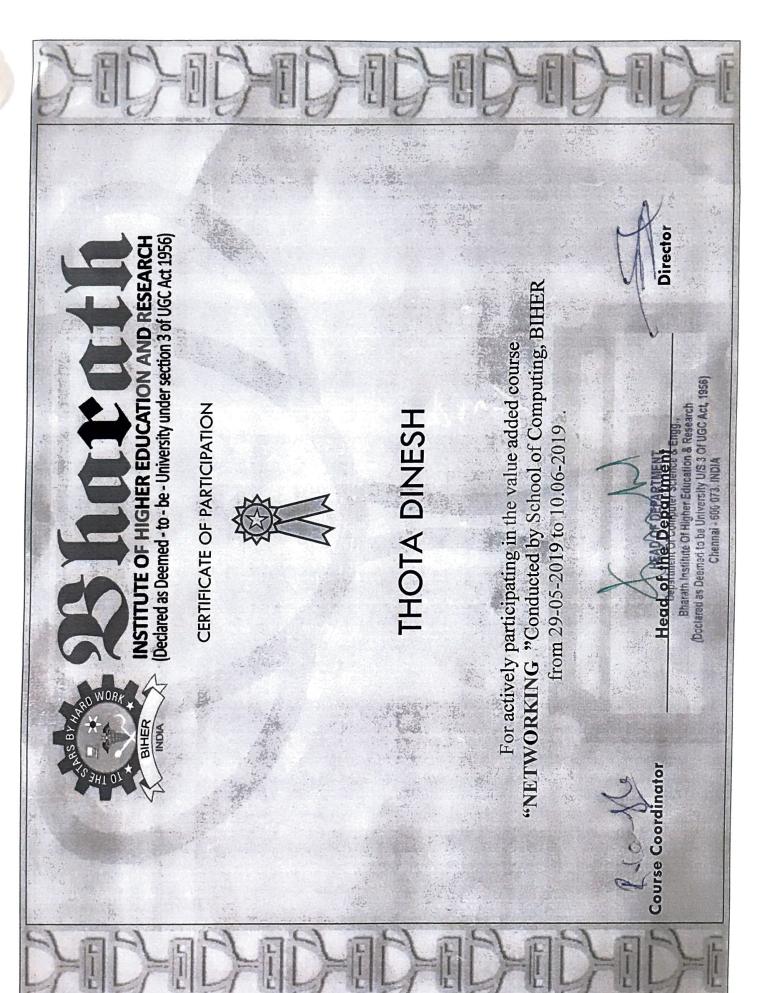
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Bharath Institute Of Higher Educational desearch

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Chennal - 606 073, INDIA



# **CERTIFICATE COURSE ON NETWORKING**

**Introduction of the Course: 3.07.2019** 



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, 19-6)

Chennai - 606 073. INDIA

### **Requisition Letter**

Date:07.06.2019

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 "Hands on Training on computer Hardware and Software" -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 "Hands on Training on Computer Hardware and Software" in our campus premises on 17.06.2019, students would be participating in this course. We request you kindly to give permission to organize this event.

Venue: CSE Smart Room

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

OF HIGHER ED

Selaiyur, Chennai-600 07: India

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

D 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

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**

12.06.2019

The school of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on **Certificate Course of Hands on Training on Hardware and Software** for the benefit of students. This course is scheduled from 17.06.2019 to 29.06.2019 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
2	Dr. G. Michael Mrs. G. Kavitha	Professor Assistant Professor

To

Copy to CSE

Copy to IT

Head of 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 HANDS ON TRAINING ON COMPUTER HARDWARE AND SOFTWARE

Date of Introduction of the Course: 03.07.2019

### **COURSE SYLLABUS**

# 1. Introduction to Computers and Windows Operating System

Introduction to the functions of an Operating System, Popular Operating Systems in Use. Main features of Windows O.S Various Input/ Output devices in use and their features.

# 2. Computer Hardware basics and Software Installation

Introduction to the booting process, BIOS settings and their modification. Introduction to various types of memories and their features. Basic Hardware and software issues and their solutions.

# 3. Introduction to DOS Command Line Interface & Linux Operating System.

Introduction to Linux Operating System features, structure, files and processes. Introduction to various Linux Shells. Basic Linux commands.

### 4. Word Processing and Spread Sheet Application

Introduction to the various applications in office. Introduction to Word features, Office button, toolbars. Introduction to Excel features and Data Types. Cell referencing. Use of functions of various categories, linking Sheets.

### 5. Image editing, Creating presentations & Using Open Office

Introduction to Open Office. Introduction to the properties and editing of images. Introduction to Power Point and its advantages.

### 6. Database Management Systems

Concepts of Data, Information and Databases. Overview of popular databases, RDBMS, OODB and NOSQL. Rules for designing good tables. Integrity rules and constraints in a table.

### 7. Networking Concepts and Internet Concepts

Introduction to Computer Networks, Necessity and Advantages. Client Server and peer to Peer networking concepts. Introduction to WWW, Concept of Internet, Web Browsers, internet servers

### 8. Web Design Concepts

Concepts of Static and Dynamic Web pages. Introduction to HTML and various tags in HTML. Creating Forms with controls using HTML. Concepts of CSS and applying CSS to HTML

### 9. Java Script

Algorithms and flowcharts. Introduction to Web Servers and their features. Introduction to Programming and Scripting Languages. Introduction to JavaScript and its application for the web. JavaScript Basics

### 10. Introduction to VBA, Features and Applications.

Introduction to VBA features and applications. VBA Data types, Variables and Constants. Operators in VBA and operator precedence. Mathematical Expressions in VBA.

### 11. Smart Accounting and E Commerce

Basics of Accounting, Golden Rules of Accounting, Voucher Entry, Ledger Posting, Final Accounts Preparation. Cash Book. Ratio Analysis, Depreciation, Stock Management Definition of E commerce, Types, scope and benefits of E commerce. Difference between E commerce and traditional commerce.

### 12. Cyber Security

Overview of Information Security, Security threats, information Security vulnerability and Risk management Introduction to Directory Services, Access Control, Software Development Security, Privacy protection, Audit and Security.

### **COURSE OBJECTIVES**

Introduces students that how to operate and manage the use of hardware systems, networks, minicomputers, control a single or group of mainframe computers, setting functional controls and codes as instructed by programmers and other types of systems learn

### Specifically, the course has the following objectives:

- 1. Read & interpret technical parameters/document, plan and organize work processes, identify necessary materials and tools;
- 2. Perform task with due consideration to safety rules, accident prevention regulations and environmental protection stipulations;
- 3. Apply professional skill, knowledge, core skills & employability skills while performing jobs and solve problem during execution.
- 4. Check the job/assembly as per drawing for functioning, identify and rectify errors in job/assembly.

5. Document the technical parameters related to the task undertaken.

**COURSE COORDINATOR** 

 $G. \mathcal{X}_{\bullet}$ 

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)

Chairnai - 900 to 3 1501A



# CERTIFICATE COURSE ON HANDS ON TRAINING ON COMPUTER HARDWARE AND SOFTWARE

Date of Introduction of the Course: 03.07.2019

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	TODIC
1	17-06-2019 (FN)	TOPIC  1. Introduction to Computers and Windows Operating System
		Introduction to the functions of an Operating System, Popular Operating Systems in Use. Main features of Windows O.S Various Input/ Output devices in use and their features.
2	18-06-2019 (FN)	2. Computer Hardware basics and Software Installation
-		Introduction to the booting process, BIOS settings and their modification. Introduction to various types of memories and their features. Basic Hardware and software issues and their solutions.
3	19-06-2019 (FN)	3. Introduction to DOS Command Line Interface & Linux Operating System.
		Introduction to Linux Operating System features, structure, files and processes. Introduction to various Linux Shells. Basic Linux commands.
4	20-06-2019 (FN)	4. Word Processing and Spread Sheet Application
	1	Introduction to the various applications in office. Introduction to Word features, Office button, toolbars. Introduction to Excel features and Data Types
5	21-06-2019 (FN)	Image editing, Creating presentations & Using Open Office Introduction to Open Office. Introduction to the Properties and editing of images. Introduction to Ower Point and its advantages.

6,7	22-06-2019 (FN	. Database Management Systems
	& AN)	Concepts of Data, Information and Databases.
		Overview of popular databases, RDBMS, OODB
		and NOSQL. Rules for designing good tables.
8	24-06-2019 (FN)	. Networking Concepts and Internet Concepts
		Introduction to Computer Networks, Necessity and
		Advantages. Client Server and peer to Peer
		networking concepts.
9	25-06-2019 (FN)	Web Design Concepts
		Concepts of Static and Dynamic Web pages.
		Introduction to HTML and various tags in HTML.
		Creating Forms with controls using HTML.
10	26-06-2019 (FN)	Java Script
		Algorithms and flowcharts. Introduction to Web
		Servers and their features. Introduction to
		Programming and Scripting Languages.
11	27-06-2019 (FN)	Introduction to VBA, Features and Applications.
		Introduction to VBA features and applications.
		VBA Data types, Variables and Constants.
		Operators in VBA and operator precedence.
,		Mathematical Expressions in VBA.
12	28-06-2019 (AN)	. Smart Accounting and E Commerce
	(-2.1)	
		Basics of Accounting, Golden Rules of Accounting,
		Voucher Entry, Ledger Posting, Final Accounts Preparation. Cash Book, Ratio Analysis
		Preparation. Cash Book. Ratio Analysis, Depreciation, Stock Management
13,14	29-06-2019 (FN	· Cyber Security
	& AN)	
		Overview of Information Security, Security threats, information Security vulnerability and Bisk
		J WILLIAM WILL WILL WILL WILL WILL WILL WILL WIL
		management Introduction to Directory Services, Access Control,
		,

G. Ke

**COURSE COORDINATOR** 

HEAD OF THE DEPARTMENT

**HEAD OF DEPARTMENT** 

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Bharath Institute Of Higher Education & Research
(Declared as Deemed to be University U/S 3 Of UGC Act, 1953)
Chennai - 600 073, INDIA



Hands on Training on Computer Hardware and Software Date of Introduction of the Course: 03.07.2019

# **School of Computing Registered Students Name List**

S.NO	REG.NO	NAME OF THE STUDENT
1	U19CN003	KOGURU INDRASENA REDDY
2	U19CN004	KOLA VAMSI VARDHAN
3	U19CN005	KOLAGANI VALESH
4	U19CN007	KOLLURI SAI SUMANTH
5	U19CN008	KOLLURI SINDHU SRI VANI
6	U19CN009	KOLLURU LAKSHMI NARAYANA SETTY
7	U19CN010	KOLLURU PRADEEP
8	U19CN011	KOMARAVELLY MAYUR
9	U19CN012	KOMMA HARI SAI PRADHYUMNA
10	U19CN013	KOMMANENI GAYATRI DEVI
11	U19CN014	KOMMI SAI SANDEEP KUMAR
12	U19CN015	KOMMINENI AJAY
13	U19CN016	KOMMINENI NAVEEN
14	U19CN017	KOMMU JASWANTH
15	U19CN018	KOMMU KUMAR
16	U19CN019	KONAKALLA REVANTH KUMAR
17	U19CN020	KONAKANCH RUDRA
18	U19CN021	KONAKANCHI GOPI CHAND
19	U19CN022	KONDA BALAJI
20	U19CN023	KONDA SRINIVASA REDDY
21	U19CN024	KONDAVEETI BALAJI
22	U19CN025	KONDAVETI SARVAN NAGA PAVAN
23	U19CN026	KONDIBOINA MADHU KUMAR
24	U19CN027	KONDU CHARITHA REDDY
25	U19CN028	KONDUPALLI GREESHMANTH KUMAR R
26	U19CN029	KONDURU KALYAN VARMA
27	U19CN030	KONETI SAI ANVITHA

	Gr. Ke	
60	U19CN064	MAAHA VISHNU B V
59	U19CN063	LOGANATHAN K
58	U19CN062	LEKKALA NAVEEN
57	U19CN060	LANSANI PRASHANTH
56	U19CN059	S LAKSHMIDHAR RAO
55	U19CN058	LAKA KASI PRAVEEN
54	U19CN057	LAGIMSETTI MURALINADH
53	U19CN056	KUSUNURI JYOTHI SAI SIDDARTHA
52	U19CN055	KURRE AKHIL
51	U19CN054	KURMA MADHU REDDY
50	U19CN053	KUNCHAPU VENKATESH
49	U19CN052	KUNCHAPU SRIKANTH
48	U19CN051	KUMMARI MARUTHI VARAPRASAD
47	U19CN050	KUMBAGANTI KARTHIK
46	U19CN049	KUKKALA RAJA SEKHAR
45	U19CN048	KUKKALA PRIYANKA
44	U19CN047	KUKKADAPU SAI SUMANTH
43	U19CN046	KUDITHI SAIMOHAN REDDY
42	U19CN045	KUDIKALA AKHIL
41	U19CN044	KRUPASHANKARI S
40	U19CN043	KOVVURU HARSHA VARDHAN REDDY
39	U19CN042	KOTTURI SANDEEP KUMAR
38	U19CN041	KOTTADA SATYA PRAKASH
37	U19CN040	KOTLA SHASHANK
36	U19CN039	KOTIPALLI SYAM SUNDAR
35	U19CN038	KOTHAPALLI PREMVEER
34	U19CN037	KOTHAPALLI LOKESH
33	U19CN036	KOTEKANTI MOHAMMED ARIF
32	U19CN035	KOTAPATI ASHOK REDDY
31	U19CN034	KOTA VENKATRAO
30	U19CN033	KORUKONDA LOKESH SATYA VEERASAI
29	U19CN032	KORRAPATI BHUVANESWARA CHARI
28	U19CN031	KOPANATHI SIVAJI

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Department of Computer Science & Engg.,
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(Declared as Deemed to be University U/S 3 Of UGC Act, 1956)
Chennai - 900 973, INDIA

Ac	ademic Ye	ar	2019	9-2020						
Ter										
Co	urse Numb	per								
Co	urse Title		Han	ds on	Training o	on Compute	r Hardware and			
Nu	mber of C	redits			- Tunning (		er Hardware and	Software		
Тур	e of Cour	se Regular			Ele	ctive				
						CLIVE		Add-on		
I.	Inform	nation on the R	espondent:	(Tick	(√) Appro	priately)				
 I.		itage of classes		_						
	0-20	reage of classes								
	0 20		20-40			40-60	60-80		80-100	
	Numb	er of hours per	week spent	on the	COURSO (O	M41 41				~
	0-2		2-4	on the		4-6				
						4-6	6-8		8-10	/
•	Prepar	ation for the co	urse by the	stude	nt:					
	(i)	Have done par	t of this cou	irse ear	lier	Vaa				
	(ii)	Has adequate p	orior exposu	re to th	ne prerequi	yeş sites				
	(iii)	Had to pickup	relevant add	ditional	topics thre	ough concurr	ent study. 4			
	(iv)	Have no expos	ure to the b	ackgro	und materia	1	chi study 140			
						100				
	The ex	pectations for ta	king the co	ourse b	y the stud	ent are:				
	(a)	Enhance by ski	ill base in th	e area	of specializ	zations y	28			
	(b)	Get exposed to	a relevant s	subject	y es					
	(c)	Curiosity	Yes		(					
	(d)	Better Employr			No					
	(e)	Complete Cour	se requirem	ents	Y 98					
	(f)	To Improve CG		1/0	3					
)Ol	it the Inst	ructor: Inform	ation on the	e Resp	ondent: (T	ick (√) Appr	opriately)			
		1			A	В	C	D		E
	Pace of	the Teaching/lect	ture		V				-	<u>r</u>
	Comme	nt of the Subject								
	Clarity o	f expression								
	Level of	preparation								
	Level of	interaction			~	1				
	Accessib	ility outside the	class							
	Others (p	please specify				1				
F-	cellent				<u> </u>					
L X	Cenent	B: Ve	ery Good	/	C: Good	l	D: Satisfactor	y	E: Poor	

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Bharath Institute Of Higher Education & Research
(Declared as Deemed to be University U/S 3 Of UGC Act, 1953)
Chennai - 600 073, INDIA

A	cademic Year		2019-2	2020							
Te	erm										
Co	ourse Number										
Co	ourse Title		Hands	on Training	on Commund	TT 1					
Nu	ımber of Cred	its		on Training	On Comput	er Hardware and	l Software				
Ту	pe of Course	Regular		El	entivo						
				Elective Add-on							
I.	Informati	ion on the Re	espondent: (T	Tick (√) Appro	priately)						
1.	Percentag	e of classes a	attended								
	0-20		20-40		40-60	(0.00					
						60-80		80-100			
2.	Number o	f hours per v	week spent on	the course (C	Other than le	ecture hours)					
	0-2		2-4		4-6	6-8		8-10			
	Prenaratio	n for th						0-10			
			urse by the st								
		es ede-	of this course	earlier	Yes						
	1	ad to mist	rior exposure	to the prerequi	sites Yes						
	(iv) Ha	iu io pickup i	relevant additi	onal topics thre	ough concur	rent study No					
	П	ive no exposi	ire to the back	ground materia	al	es.					
•	The expect	ations for ta	king the cour	se by the stud	ent are:	<i></i>					
	(a) En	hance by skil	l base in the a	rea of specializ	zations yes	)					
	(b) Ge	t exposed to	a relevant subj	iect							
	(c) Cu	riosity	1/	- Y &	3						
	(d) Bet	ter Employm	ent Opportun	ity vol							
	(e) Con	mplete Cours	e requirement	s Jo							
	1	Improve CGI		tes.							
ou	t the Instruct	or: Informa	tion on the R	espondent: (T	ick (√) Annı	Opriately)					
				A	В	C	n				
	Pace of the T	eaching/lectu	ire				D	E			
	Comment of	the Subject			-						
	Clarity of exp	pression									
	Level of prep	aration		1							
1	Level of inter	action									
	Accessibility	outside the cl	lass								
1	Others (please	specify		./							
Exc	cellent	R. Von	y Good								
	V	D. ver	y Good	C: Good		D: Satisfactor	y	E: Poor			

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, 1950)
Chennai - 600 073, INDIA

Acad	emic Year		2019-2	020									
Term													
Cour	se Number												
Cour	se Title		Hands	Hands on Training on Computer Hardware and Software									
Num	ber of Cre	dits											
Type	of Course	Regular		E	Elective			Add-on					
		·											
I.	Informa	tion on the Res	pondent: (1	Tick (√) App	ropriately	') ————							
1,	Percentage of classes attended												
	0-20		20-40		40-60		60-80		80-100				
				,									
2.	Number	of hours per w	eek spent o	n the course	(Other th	an lectu							
	0-2		2-4		4-6		6-8		8-10				
3.	Prenara	tion for the cou	rse by the s	tudent:									
٥.	(i)	Have done part			7/08								
		Has adequate pr				Vu	-						
	(iii)	Had to pickup re			-	1	study 🗸 🔏						
	(iv)	Have no exposu			THE STATE OF THE S	0.	70						
4.	The exp	ectations for tal											
	(a)	Enhance by skil			ializations	Yes							
	(b)	Get exposed to a	a relevant su	ibject yo	>								
	(c)	Curiosity	Yes										
		Better Employm											
	(e)	Complete Cours		ents /es									
		To Improve CG	/		Tiek (1	Annro	nriotaly)						
Abou	it the Inst	ructor: Informa	tion on the	Respondent		В	C	D		E			
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1.		he Teaching/lect	ui <del>c</del>					-					
2.		f expression											
3.		preparation			1								
<ol> <li>4.</li> <li>5.</li> </ol>		interaction			1								
6.		cessibility outside the class											
7.		Others (please specify											
		-1/	<del></del>										
A: Ex	cellent	B: Ve	ery Good	C:	Good		D: Satisfact	ory	E: Poor	r			

HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT

Department Of Computer Science & Engg.,
Bharath Institute Of Higher Education & Rosearch
(Declared as Deemed to be University U/S 3 Of USO Act., 191)

Chennai - 600 073, INDIA





# INSTITUTE OF HIGHER EDUCATION AND RESEARCH

CERTIFICATE OF PARTICIPATION

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



# MR. YOGESHWARAN

Hands on Training on Computer Hardware and Software" Conducted by For actively participating in the value added course "Certificate course on School of Computing, BIHER from 17-06-2019 to 29.06.2019

Course Coordinator

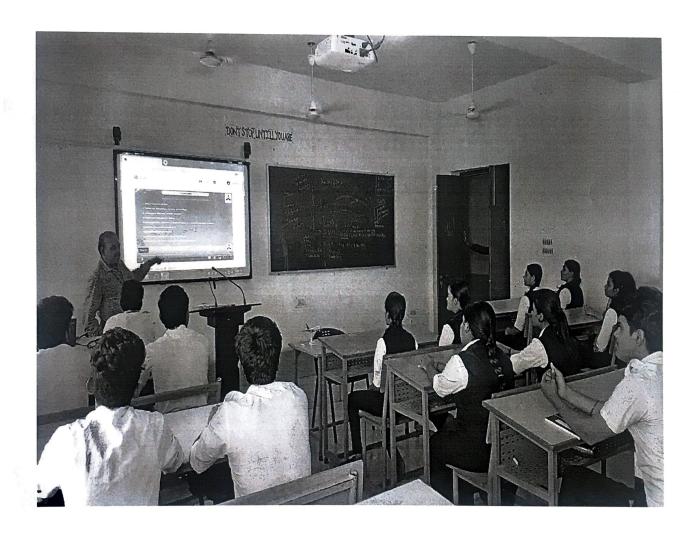
Head of the Departmen

Sirector

KIRCHORING KIRCH

### CERTIFICATE COURSE ON HANDS ON TRAINING ON COMPUTER **HARDWARE AND SOPFTWARE**

**Introduction of the Course: 03.07.2019** 



G. K. **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, 1997)

Chennal - 600 073, (NDIA



### **Requisition Letter**

Date: 05.07.2019

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 Computer Operator and Programming Assistant" -Reg

With reference to above subject, I would like to bring to your kind notice that, our department interested to organize value added course "Certificate course on Computer Operator and Programming Assistant" -Reg

in our campus premises on 15.07.2019, students would be participating in this course. We request you kindly to give permission to organize this event.

Venue: CSE Smart Room

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 & E. mg.

Sharath institute Of Higher Education & R. mg.

(Declared as Deemeo to be University U/S 3 Of UGO.)

Chennal - 600 073, INDIA



DEAN (Engineering)

Bharath Institute of Science & Technology

BHARATH INSTITUTE OF HIGHER EDUCATION & RESEARCH

BHARATH INSTITUTE OF HIGHER EDUCATION & RESEARCH

(Declared as Deemed to be University U/S 3 of UGC Act. 1956)

Selaiyur, Chennai-600 073.



### **CIRCULAR**

10.07.2019

The school of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on **Certificate Course of Computer operator and Programming Assistant** for the benefit of students. This course is scheduled from 15.07.2019 to 27.07.2019 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. Rajabhushnam	Professor
2	Mr. R. Sridhar	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 Act, 1955)
Chennal - 600 073, INDIA



## CERTIFICATE COURSE ON COMPUTER OPERATOR AND PROGRAMMING ASSISTANT

Date of Introduction of the Course: 03.08.2019

### **COURSE SYLLABUS**

### 1. INTRODUCTION

List hardware components of a computer; explain what is software and the different types of software;

### 2. EVOLUTION AND DEVELOPMENT OF COMPUTING

The first generations (1945-1954) .The second generation (1955-1964) .The third generation (1965-1974) .The fourth generation (1974-1991) the fifth generation (1991- Present).

### 3. HARDWARE COMPONENTS OF COMPUTERS

Autonomous computer, Modem or Lan Card, Connection from ISP, Normal phone line (If dial up connection), and Browsing software.

### 4. WHAT IS SOFTWARE?

Software consists of computer programs, which are sequences of instructions for the computer Difference between System Software and Application Software.

### 5. SYSTEM SOFTWARE: FUNCTIONAL CATEGORIES

Basically two major functional categories come under the system software: System Control Programs System Support programs

### 6. SYSTEM CONTROL PROGRAMS

System control programs control the use of the hardware, software and data resources of a computer system. The main system control program is the Operating System.

### 7. SYSTEM SUPPORT PROGRAMS

The second major category of systems software, system support program, supports the operations, management, and users of a computer system by providing a variety of support services

### 8. SOFTWARE CRISIS

Software comprises a much larger percentage of the cost of modern computer system then it was earlier. There are so many grounds for this trend

### 9. APPLICATION SOFTWARE OR PACKAGES

Spreadsheet, Data Management, Word Processing, Desktop Publishing, Graphics, Multimedia, Communications, Speech-Recognition Software and GroupWare.

### 10. TYPES OF SOFTWARE SYSTEM

Software System software helps run the computer hardware and computer system. It includes Windows, Linux etc. Utilities Disk defragmenter Anti-virus Device drivers etc.

### 11. PROGRAMMING SOFTWARE

Programming software usually provides tools to assist a programmer, and software using different programming languages in a more convenient way.

## 12. APPLICATION SOFTWARE INDUSTRIAL AUTAMATION

CAD Business software E.g. Pastel Accounting, QuickBooks etc. Computer games E.g. Solitaire, Need for Speed etc. Office Applications E.g. MS Word, MS PowerPoint etc.

### **COURSE OBJECTIVES**

This course aims at gaining knowledge about Hardware and maintenance, its aims, aspects and relations to other fields. It also aims at acquainting students with the implementation of hardware and its characteristics, components and functions.

Specifically, the course has the following objectives:

### Students will learn

- 1. Describe the evolution and development of computing;
- 2. List hardware components of a computer;
- 3. Explain what is software and the different types of software; and
- 4. Discuss major problems faced by the management, namely software crisis.

COURSE COORDINATOR

HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT Department Of Computer Science & Engg., Bharath Institute Of Higher Education & Respansion (Declared as Deemed to be University U/S 3 Of UCU (CO 3055) Chennai - 600 073. INDIA



# CERTIFICATE COURSE ON COMPUTER OPERATOR AND PROGRAMMING ASSISTANT

Date of Introduction of the Course: 03.08.019

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	15-07-2019 (FN)	1. INTRODUCTION  List hardware components of a computer; explain what is software and the different types of software;
2	16-07-2019 (FN)	2. EVOLUTION AND DEVELOPMENT OF COMPUTING  The first generations (1945-1954) .The second generation (1955-1964) .The third generation (1965-1974) .The fourth generation (1974-1991) the fifth generation (1991- Present).
3	17-07-2019 (FN)	. HARDWARE COMPONENTS OF COMPUTERS  Autonomous computer, Modem or Lan Card, Connection from ISP,
4	18-07-2019(FN)	WHAT IS HARDWARE?  Normal phone line (If dial up connection), and Browsing software.
5	19-07-2019 (FN)	WHAT IS SOFTWARE?  Software consists of computer programs, which are sequences of instructions for the computer Difference between System Software and Application Software.
6,7	20-07-2019 (FN & AN)	SYSTEM CONTROL PROGRAMS  System control programs control the use of the hardware, software and data resources of a computer

		system. The main system control program is the Operating System.
8	22-07-2019 (FN)	. SYSTEM SUPPORT PROGRAMS
		The second major category of systems software, system support program, supports the operations, management, and users of a computer system by providing a variety of support services
9	23-07-2019 (FN)	SOFTWARE CRISIS
		Software comprises a much larger percentage of the cost of modern computer system then it was earlier. There are so many grounds for this trend
10	24-07-2019 (FN)	. APPLICATION SOFTWARE OR PACKAGES
,		Spreadsheet, Data Management, Word Processing, Desktop Publishing, Graphics, Multimedia, Communications, Speech-Recognition Software and GroupWare.
11	25-07-2019 (FN)	TYPES OF SOFTWARE SYSTEM
		Software System software helps run the computer hardware and computer system. It includes Windows, Linux etc. Utilities Disk defragmenter Anti-virus Device drivers etc.
12	26-07-2019 (AN)	PROGRAMMING SOFTWARE
		Programming software usually provides tools to assist a programmer, and software using different programming languages in a more convenient way.
13,14	27-07-2019 (FN & AN)	APPLICATION SOFTWARE INDUSTRIAL AUTAMATION
		CAD Business software E.g. Pastel Accounting, QuickBooks etc. Computer games E.g. Solitaire, Need for Speed etc. Office Applications E.g. MS Word, MS PowerPoint etc.

**COURSE COORDINATOR** 

HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT
Department Of Computer Science & Engg.,
Bharath Institute Of Higher Education & Research Coclared as Deemed to be University U/S 3 Of UC.
Chennai - 600 073. INDIA



Certificate Course on Computer Operator and Programming Assistant
Date of Introduction of the Course: 03.08.2019

# **School of Computing Registered Students Name List**

S.NO	REG.NO	NAME OF THE STUDENT
1	U19CN098	MANUBOTHU RUPA BHUVANA SRI
2	U19CN099	MAREEDU GIRISH
3	U19CN100	MARELLA LALITH
4	U19CN101	MARRI AJAY
5	U19CN102	MARRIBOYINA SHARAN KUMAR
6	U19CN103	MASANAM RAJENDRA
7	U19CN104	MATAM SHAIK SAKHIB
8	U19CN105	MATSA PRANAY
9	U19CN106	MATTA DINESH MANI KUMAR
10	U19CN107	MAYALURI KOWSALYA
11	U19CN108	MD AFSAR
12	U19CN109	MD FAISHAL KHAN
13	U19CN110	MD NAIYAR ALAM
14	U19CN111	MD SHAHBAZ ALAM
15	U19CN112	MEDAPATI VENKATA SAI RAMI REDDY
16	U19CN113	MEDARAPU GANESH
17	U19CN114	MEDIKONDA HARSHINI REDDY
18	U19CN115	MEENELLI VENKATA HEMANTH KUMAR
19	U19CN116	MEESA MAHENDER
20	U19CN117	MEGHA
21	U19CN118	MEKA DHARANI
22	U19CN119	MENCHU RANADISH
23	U19CN120	MERIPO ANIL BABU
24	U19CN121	MERUGU SAI KRISHNA
25	U19CN122	MERUGU SAI THARUN

26	U19CN123	MHACHEN KIKON		
27	U19CN124	MIDDE SAILAJA		
28	U19CN125	MIDDE VENKATA RAKESH		
29	U19CN126	MILKURI ABHINAV	_	
30	U19CN127	MODDU VAMSI	10	Λ

**COURSE COORDINATO** 

HEAD OF THE DEPARTMEN

### HEAD OF DEPARTMENT

Department Of Computer Science & Engq
Bharath Institute Of Higher Education & Research
(Declared as Deemed to be University U/S 3 Of UGC Actions)
Chennai - 600 073, INDIA

Aca	demic Ye	emic Year 2019-2020									
Tern	n										
Cou	rse Numb	per									
Cou	rse Title		Certifica	Certificate course on Computer Operator and Programming Assistant							
Nun	nber of Ci	redits									
Тур	e of Cour	se Regular		Ele	ective		Add-on				
I.	Inforn	nation on the Resp	ondent: (Tic	k (√) Appro	priately)						
1.	Parcar	itage of classes atte	andad								
1.	0-20		20-40		40-60	60.90		90 100	Т		
	0-20		20-40		40-00	60-80		80-100			
2.	Numb	er of hours per we	ek spent on	the course (C	Other than le	ecture hours)					
	0-2		2-4		4-6	6-8		8-10			
3.		ration for the cour	And the second s								
	(i)	Have done part of	f this course	earlier	Yes						
	(ii)		ior exposure to the prerequisites								
	(iii)	Had to pickup rel	evant additio	nal topics thr	ough concur	rent study No					
	(iv)	Have no exposure	to the backs	ground materi	ial Yes			7			
_											
4.		pectations for taki									
	(a)	Enhance by skill			izations Ye	<u>.</u>					
	(b)	Get exposed to a		ect Yu							
	(c)	/	es								
	(d)	Better Employme	nt Opportuni	ty yes							
	(e)	Complete Course	. <del>.</del>	No	1						
	(f)	To Improve CGPA									
Abou	it the Ins	tructor: Informati	on on the Ro	espondent: (	Tick (√) App	ropriately)					
				A	В	С	D		E		
1.	Pace of	the Teaching/lectur	e		7						
2.	Comme	ent of the Subject									
3.	Clarity	of expression									
4.	Level of	f preparation			1						
5.	Level of	f interaction									
6.	Accessi	bility outside the cla	ass		1						
7.	Others (	please specify			-						
A . T	aalla4	D. V	y Good	C: Goo	a l	D. C. C.					
m. LX	cellent	D. ver	y Juuu	/ C. G00	,u	D: Satisfacto	DEA	E: Poor	1 1		

HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT

Department Of Computer Science & Engg.,
Bharath Institute Of Higher Education & Reso.
(Declared as Deemed to be University U/S 3 Of U/S C.)
Channal - 600 073, INDIA

Aca	cademic Year 2019-2020										
Tern	n			-							
Cou	rse Numbe	r									
Cou	rse Title		Certif	icate co	urse on C	Compute	r Opera	ator and Pro	ogramming	Assistant	
Nun	nber of Cre	dits									
Тур	e of Course	Regular			Electi	ve			Add-on	V	
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2.	Number	of hours per w	veek spent o	n the co	urse (Oth	er than	lecture l	hours)			
	0-2		2-4		4-	-6		6-8		8-10	
3.	Prenara	tion for the cou	irse by the	student.							
٥.	_	Have done part				2.4					
		Has adequate p			y -						
		Had to pickup r	***		1380		rrent stu	ıdy Yes			
		Have no exposi			-	Yes			,		
	, ,		00000			127					
4.	1 -	ectations for ta									
		Enhance by ski				tions >	'es				
	(b)	Get exposed to	a relevant si	ıbject	No						
	1 ' '	Curiosity	Yes								
	, ,	Better Employn			YR						
	( )	Complete Cours		<u> </u>	28						
	1 1	To Improve CG		No	1 / (TC)	1- (-) 1-		-tales			
Abou	it the Insti	uctor: Informa	ation on the	Respon				C	D		
					A	В			b		
1.		he Teaching/lect							-		
2. Comment of the Subject											
3.						1			-		
4.		preparation			1				-		
5.		interaction	alaga		1				-		
6.		ility outside the	Class		/				-		
7.	Others (p	lease specify			V						
A: Ex	cellent	B: Ve	ery Good		C: Good		D	): Satisfacto	ory	E: Poo	r

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 LIGC Ast. 1956)
Chennal - 600 073. INDIA

Acad	emic Year		2019-2020							
Term										
Cours	se Number	r								
Cours	se Title		Certifi	icate cour	rse on C	omputer O	perator and P	rogramming	Assistant	
Numl	ber of Cre	dits								
Type	of Course	Regular			Electiv	e		Add-on		
I.	Inform	ation on the Res	spondent: (7	Tick (√) A	ppropria	itely)				
1	Damasa	of alassas a	ttom dod							
1.	0-20	age of classes a	20-40		40	-60	60-80		80-100	
	0-20		20-40		40	-00	00-80		80-100	
2.	Numbe	r of hours per w	eek spent o	n the cou	rse (Oth	er than lect	ure hours)			
	0-2		2-4		4-0	5	6-8	T	8-10	
3.		ition for the cou								
	(i)	Have done part of this course earlier  Has adequate prior exposure to the prerequisites yes								
	(ii)	Has adequate p	rior exposur	e to the pr	erequisite	es ya				
	(iii)	Had to pickup				1	nt study y u			
	(iv)	Have no exposi	are to the bac	ckground	material	No				
4.	The exp	ectations for ta	king the co	urse by th	e studen	t are:				
	(a)	Enhance by ski	ll base in the	area of sp	pecializat	ions yus		1		
	(b)	Get exposed to	a relevant su	ıbject	No.					
	(c)	Curiosity Ye	>	19						
	(d)	Better Employr	nent Opport	unity y	R					
	(e)	Complete Cour	se requireme	/						
	(f)	To Improve CG	PA	res.				***************************************		
Abou	t the Inst	ructor: Inform			ent: (Tic	k (√) Appro	priately)			
					A	В	C	D		E
1.	Pace of	the Teaching/lec	ture		VS					
2.	Comme	omment of the Subject								
3.		of expression								
4.		preparation			/					
5.	N. S.	interaction								
6.		oility outside the	class							-
7.	Others (	please specify			/					
A: Ex	cellent	B: V	ery Good	(	C: Good		D: Satisfact	orv	E: Poor	
									D. 1 001	A .

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/3 3 Of UGC Asia 1903,

Chemnal - 600 0/3, INDIA

# CECECE CECECE





CERTIFICATE OF PARTICIPATION

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



# MR. MATSA PRANAY

Computer Operator and Programming Assistant" Conducted by School of For actively participating in the value added course "Certificate course on Computing, BIHER from 15-07-2019 to 27.07.2019

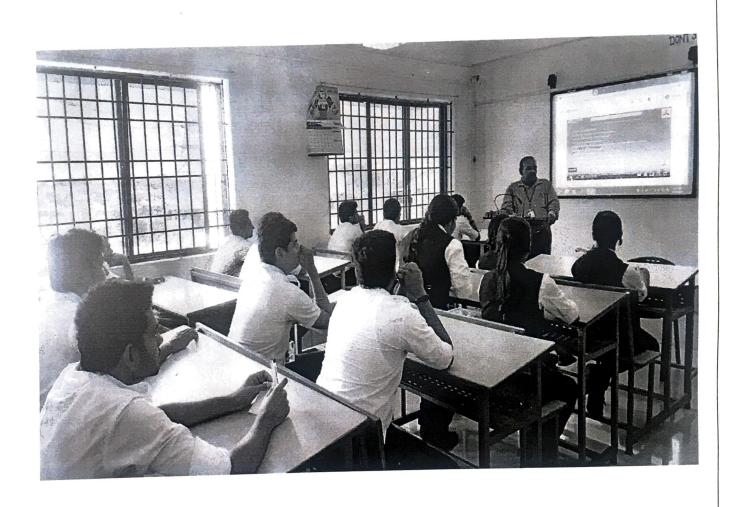
Course Coordinator

Head of the Department

Director

# CERTIFICATE COURSE ON CERTIFICATE COURSE ON COMPUTER OPERATOR AND PROGRAMMING ASSISTANT

**Introduction of the Course: 03.08.2019** 



Course Coordinator

Head of the Department

Capartment Of Computer Science & Engg.,
Bharath institute Of Higher Education & Research
[Declared as Deemed to be University U/S 3 Of UGC Act, 1955,
Channal - 600 973, INDIA



### Requisition Letter

Date:04.07.2019

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

To The PRO ViceChanceller. Bharath Institute of Higher Education and Research, Chennai

Respected sir

Subject: Request of Permission to conduct a value-added course on "Desk Top Publishing Operating Course" -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 "Desk Top Publishing Operating Course" in our campus premises on 15.07.2019, students would be participating in this course. We request you kindly to give permission to organize this event.

Venue: CSE Smart Room

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

HIGHER EDUCAT

be University U/S 3 or

Selaiyur, Chennai-600 073 India

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 0 Of UGC Act. 1955)

Chennal - 600 073, INDIA

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**

08.07.2019

The school of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on **Desk Top Publishing Operating course** for the benefit of students. This course is scheduled from 15.07.2019 to 25.07.2019 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. Malini P	Professor
2	Mr. K. Sivalamen A	Assistant Professor

Head of Department

To

Copy to CSE

Copy to IT

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)
Chennai - 600 073, INDIA



### CERTIFICATE COURSE ON Desk Top Publishing Operator Course

Date of Introduction of the Course: 03.08.2019

### **COURSE SYLLABUS**

### 1. THE COMMON LANGUAGE RUNTIME (C.L.R.)

To learn and analyse and visualize CLR Architecture and Services, The .Net Intermediate Language (IL), Just- In- Time Compilation and CLS, Disassembling .Net Application

### 2. NET FRAMEWORK CLASS LIBRARY

System Namespace, System .Object Namespace, System .Collection Namespace ,System .Type ,Exception

### 3. LANGUAGE FUNDAMENTAL

Data type and Control Constructs , Value and Reference Types , Declaring and Initializing Variables , Unicode Characters and Strings ,C.T.S Type , Implicitly Typed Local Variables ,Conditional Syntax ,C# Operator , Looping Syntax , Structure

### 4.ARRAY & STRING

Arrays in General , Declaring of different type Arrays , Initializing Arrays , Accessing element of different type Array Members , Arrays of Objects , Structure type array , Using for each with Arrays , Understanding System. String class and its various operations

### 5. ADO.NET AND IT'S ARCHITECTURE

Connection Object , Command Object , Dataset , Data Reader Object , Data Adapter Object , Concurrency and the Disconnected Data Architecture , Provider

### 6. DATA SET

Creating Tables in Dataset , Data Column , Data Row , Data Table ,Updating, Inserting and Modification in Data Table ,Saving Changes into Data Base using Command Builder ,Working With Command and Connection

### 7. CONNECTIONS AND COMMAND OBJECT

Connection Object , Command Object , Execute Non Query ,Execute Scalar

### 8. DATA READER

Reading Data in Connected Environment, Moving and Accessing Value of Record, Execute Reader

### 9. INTRODUCTION TO ADO.NET

How ADO.NET works and how it differs from ADO? Evolution of ADO to ADO.NET.

### 10. TRANSACTION

• Introduction of Transaction (ACID) • Transaction Class • Method and Property • Commit and Rollback

### 11. UNDERSTANDING PAGE LIFE CYCLE

Understanding of Application Life Cycle • Page Life-cycle Stages • Life-cycle Events • Autoeventwireup • Tracing and debugging asp.net pages

### **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

The role of W.C.F

W.C.F project template

Understanding WCF Addressing

Understanding WCF Bindings

Understanding WCF Contracts

Understanding WCF Endpoint

Composition of basic W.C.F

Building a W.C.F service

Hosting a W.C.F service

Building a W.C.F client application

K. Sivan COURSE COORDINATOR

HEAD OF THE DEPARTMENT

HERO OF DEPARTMENT

Department of Computer Science & Engg. Bharain Institute Of Higher Education & Research (Declared as Deemed to be University UIS 3 Of UGC Act, 1955)

Chennal - 500 073. INDIA



### CERTIFICATE COURSE Short term course on Desk Top Publishing Operator Course

Date of Introduction of the Course: 03.08.2019

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
CLINOS	DIXIL	MS Paint
1	15-07-2019(FN)	To learn and analyse and visualize Presentation and setup of user interface and help. Open and save an image
3	16-07-2019 (FN)	Photoshop  Demonstrates a conceptual understanding getting Acquainted with Photoshop Basic Image Manipulation
	17-07-2019 (FN)	PageMaker
4	17 07 2015 (114)	Getting Acquainted with Photoshop ,Basic Image Manipulation
		Coral Draw
5	18-07-2019 (FN )	Getting started with Corel Draw, Introduction to Corel Draw, Features of Corel Draw, Corel Draw Interface, Tool Box, Moving from Adobe Illustrator to Corel Draw, Common Tasks
		Broadband Internet connectivity
6	19-07-2019(FN)	Design Process , Designing Aids , Printing and presentation
	20-07-2019	Network Rack 4U for 24 port
7	(FN&AN)	Drawing and Coloring, Selecting Objects, Creating Basic Shapes, Reshaping Objects, Organizing objects, Applying color fills and Outlines
		Patch Panel 24 Port
8	21-07-2019(FN)	Applying Effects, Power of Blends Distortion, Contour Effects, Envelopes, Lens effects, Transparency, Depth

9	22-07-2019 (FN)	Digital Web Cam High Resolution  Corel Draw- Web resources, Internet Tool bar, Setting your webpage, Exporting files, Creating buttons with rollover effects.
10	23-07-2019 (FN)	Projector Screen Matte (antiglare) screen roll type  Working with Text and Graphics, Using Graphics, Applying Colors to Graphics, Framing Graphics, Cropping and masking Graphics, Working with Layers, Working with Master pages, Working with Plugins, Using Text Wrap
11	24-07-2019 (FN)	Screw Driver Set Standard ,Patch Panel 24 Port  Effectively utilize the multiple methods of manipulating, retouching, refurbishing art work, photographs, Gain entry level position in Graphic design and animation
12	25-07-2019 (FN)	Broadband Internet connective  Understand multiple image types and the best application of each for graphic design, print and the web

K. Sivar

COURSE COORDINATOR

HEAD OF THE DEPARTMENT

Department Of Computer Science & Surre Pharath Institute Of Higher Education & Ressure (Doclared as Deemed to be University U/S 3 Of UGC Act, 1990, Chennal - 600 073, INDIA



### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Date of Introduction of the Course: 03.08.2019

### **B.Tech Computer Science and Engineering**

### Introduction to Desk Top publishing Operating Course COMPUTER COURSE

Int	roduction to bes	k top publishing operating course
S. No	REG.NO	NAME OF THE CANDIDATE
1	U19CB133	YOGESH
2	U19CB134	YOGESHWARAN N
3	U19CB135	YOGESHWARAN S
4	U19CB136	PASANG DORZEE SHERPA
5	U19CB137	KADIRE SAMBASIVA
6	U19CB138	HARI KRISHNAN P
7	U19CN001	KODUMURI HEMANTH KUMAR
8	U19CN002	KOGANTI MANOJ SAI
9	U19CN003	KOGURU INDRASENA REDDY
10	U19CN004	KOLA VAMSI VARDHAN
11	U19CN005	KOLAGANI VALESH
12	U19CN007	KOLLURI SAI SUMANTH
13	U19CN008	KOLLURI SINDHU SRI VANI
14	U19CN009	KOLLURU LAKSHMI NARAYANA SETTY
15	U19CN010	KOLLURU PRADEEP
16	U19CN011	KOMARAVELLY MAYUR
17	U19CN012	KOMMA HARI SAI PRADHYUMNA
18	U19CN013	KOMMANENI GAYATRI DEVI
19	U19CN014	KOMMI SAI SANDEEP KUMAR
20	U19CN015	KOMMINENI AJAY
21	U19CN016	KOMMINENI NAVEEN
22	U19CN017	KOMMU JASWANTH
23	U19CN018	KOMMU KUMAR
24	U19CN019	KONAKALLA REVANTH KUMAR
25	U19CN020	KONAKANCH RUDRA
26	U19CN021	KONAKANCHI GOPI CHAND
27	U19CN022	KONDA BALAJI
28	U19CN023	KONDA SRINIVASA REDDY
29	U19CN024	KONDAVEETI BALAJI
30	U19CN025	KONDAVETI SARVAN NAGA PAVAN

**Course Coordinator** 

Department Of Computer Science & Enna .

Bharath insurface of Education C.

Channai - 500 073, Nibul

Academic Year			2019-2020										
Term													
Cours	e Numb	er											
Cours	e Title		Desk Top I	ublishing Operator Course									
Numb	per of Cr	edits											
Type (	of Cours	e Regular		Elective			Add-on						
ī.	Inform	nation on the Respon	dent: (Tick (	(√) Appropriat	ely)								
1.	Percen	tage of classes attend	led										
	0-20	20-40 40-60 60-80 80-100											
2.	Numbe	er of hours per week	spent on the	e course (Other	than lectur								
	0-2	2-4	t	4-6		6-8	8-10						
2	Dwane	nation for the source	by the stude	ant:									
3.	(i)	Preparation for the course by the student:  (i) Have done part of this course earlier											
	(iii)	(ii) Has adequate prior exposure to the prerequisites  (iii) Had to pickup relevant additional topics through concurrent study											
	(iv)												
	(10)	Have no exposure	o the ouekgr	ound material		Mes							
4.	The ex	spectations for takin	g the course	by the student	are:								
	(a)	Enhance by skill be	ase in the are	e in the area of specializations									
	(b)	(b) Get exposed to a relevant subject											
	(c)	Curiosity		Yes									
	(d)	Better Employmen	t Opportunit	у									
	(e)	Complete Course r	equirements		lei ei								
	(f) To Improve CGPA												
Abou	it the In	structor: Informatio	on on the Re	spondent: (Tic	k (√) Appro								
				A	В	C	l l	D	E				
1.		of the Teaching/lecture											
2.		nent of the Subject											
3.	Clarity of expression												
4.		of preparation											
5.		of interaction											
6.		sibility outside the cla	iss										
7.	Others	s (please specify											

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, 1950)
Chennal - 600 073, INDIA

Academic Year				2019-20	2019-2020								
Term Course Number													
Course	e Number												
Cours	e Title			Desk T	Desk Top Publishing Operator Course								
Numb	er of Cree	dits											
Туре	of Course	Re	egular		E	Elective Add-on							
I.	Informa	ition on	the Res	spondent: (T	ick (√) Appı	opriate	ly)						
1.	Percentage of classes attended												
1.	0-20												
				20-40		40-0	0		60-80		80-100		
2.	Number	r of hou	ırs per w	veek spent o	n the course	(Other	than lectur	re hou	rs)				
	0-2			2-4		4-6			6-8		8-10		
3.	Duanana	f-											
3.				irse by the s					<u> </u>				
	(i) (ii)			of this cours				<u></u>	10				
	(iii)			rior exposure relevant addir	-				es				
	(iv)			ure to the bac			concurrent	study	No				
	(1V)	navei	io expos	ure to the bac	kground mat	епаг		9	es				
4.	The exp	ectatio	ns for ta	king the cou	irse by the st	tudent a	ire:						
(a) Enhance by skill base in the area of specializations													
	(b)	Get ex	posed to	a relevant su	bject			Yes					
	(c)	Curios	sity					Yas					
	(d)			ment Opportu				Yes					
	(e)			se requireme	nts			Ye	,				
	(f)		prove CC						<b>S</b>				
Abou	t the Inst	ructor	: Inform	ation on the				riatel					
					A	`	В		С	D		E	
1.	Pace of the Teaching/lecture												
2.	Comment of the Subject			!				_					
3.	·	Clarity of expression			,								
4.	Level of preparation						_						
5.	Level of interaction  Accessibility outside the class												
7.	Others (	_		Class				-					
/.	Others (	piease	specify										
A: E	xcellent	~	B: \	Very Good	C: 0	Good		D: S	atisfacto	ry	E: Poor		

HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT

Department of Computer Science & Engol.

Shorath Institute Of Higher Education of Processor (Costared as Deemed to be University U/S 3 C; USC Ann. 1999) Chennai - 600 073. INDIA





CERTIFICATE OF PARTICIPATION



# Mr. YOGESHWARAN N

For actively participating in the value added course "Desk Top Publishing Operator Course "Conducted by School of Computing, BIHER from 15-07-2019 to 25.07.2019

Course Coordinator

Head **6f** the Department

Director

## CERTIFICATE COURSE ON Desk Top Publishing Operator Course

**Introduction of the Course: 03.08.2019** 



Ksiva

Course Coordinator

Head of the Department

HEAD OF DEPARTMENT

Department Of Computer Science & Enga. Bharath Institute Of Higher Education & Possarch (Doclared as Doeme I to be University US 3 Of 952 % Chennal - 500 073, INCLA



### TION AND RESEARCH istitute of Hi

(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)

### Requisition letter

Date: 19.08.2019

### 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 "Business Analytics & Text Mininig Modeling using python"-Reg

With reference to above subject, I would like to bring to your kind notice that, our department interested to organize value added course "Business Analytics & Text Mininig Modeling using python"-Reg in our campus premises on 29.08.2019, students would be participating in this course. We request you kindly to give permission to organize this event.

Venue: CSE smart class Room

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.

Selaiyur, Chennai-600 073 India

**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

Chennal - 600 073. INDIA

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

Selaiyur, Chennai-600 073.



## Sharath nstitute 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)

### **CIRCULAR**

22.08.2019

The school of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on **Certificate Course of Business Analytics & Text Mininig Modeling using python** for the benefit of students. This course is scheduled from 29.08.2019 to 09.09.2019 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. A.R. Arunachella	Professor
2	Mr. B. Sundaraj	Assistant Proteuros.

Head of Department

HEAD OF DEPARTMENT

Department of Computer Science & Engg.,

Bharath Institute Of Higher Education & Research (Declared as Deerson to be University U/S 3 Of UGC Act. is:

Chennai - 600 073, INDIA

To

Copy to CSE

Copy to IT

# CERTIFICATE COURSE ON BUSINESS ANALYTICS & TEXT MINING MODELLING USING PYTHON

Date of Introduction of the Course: 26.09.2019

### **COURSE SYLLABUS**

### 1. Introduction

The goal of this first module cover the introductory aspects of this particular course. This courses focused on the data mining aspects where we work with numerical you know data which is highly structured in nature and we apply various statistical data mining and mathematical techniques to solve you know prediction and classification problems.

### 2. Introductory overview of Text Mining

Describe and explain the key terms in the text mining also has significant potential for academic application and, at least when used in its basic form, benefits from being a relatively straightforward and easy tool to master.

### 3. Python Basics

Explain the concepts of Python programming language, Development environments. Web and web app development, Security of the web applications.

### 4. Python for Analytics

Describes the concepts of Python programming and gain in-depth, valuable knowledge in data analytics, machine learning, and data visualization, web scraping, and natural language processing.

### 5. Built in Capabilities of Python

The topic teaches you the essential concepts of Python programming, and gives you an indepth knowledge in data analytics, machine learning, data visualization, web scraping, and natural language processing.

### 6. Numerical Python

Introduce data manipulation and cleaning techniques using the popular python pandas data science library and introduce the abstraction of the Series and Data Frame as the central data structures for data analysis, along with tutorials on how to use functions such as groupby, merge, and pivot tables effectively.

### 7. Fundamentals of Data Manipulation with Python

Demonstrate the field of data science, review common Python functionality and features which data scientists use.

### 8. Python pandas

Explain the concepts and that will learn the various features of Python Pandas and how to use them in practice.

### 9. String and Text Processing

Demonstrate about the string object, so most of the text operations that we would typically like to perform, they can be covered by string objects built-in methods.

### 10. Data visualization using Python

Discuss about the need to setup Jupyter environment to use matplotlib. So, for that we can run this particular you know magic command matplotlib space notebook %matplotlib space notebook.

### 11. Text collection and Transformation

Demonstrate the source of text data collection with the document warehouse or databases and for websites using web APIs.

### 12. Text mining and modelling

Demonstrate the concept of expanding contractions, POS tagging, lemmatization, special character removal, stop word removal and tokenization.

### **COURSE OBJECTIVES**

Objective of this course is to impart knowledge on use of text mining techniques for deriving business intelligence to achieve organizational goals. Use of Python based software platform to build, assess, and compare models based on real datasets and cases with an easy-to-follow learning curve

### Specifically, the course has the following objectives:

### Students will learn

- 1. Understand the fundamental terms and concepts of Text mining.
- 2. Understand the Concepts of python programming
- 3. Learn the general properties of Text mining and modeling.
- 4. Basic understanding of Visualization with python

B. Sudy COURSE COORDINATOR

HEAD OF THE DEPARTMENT

England Shuper Science & Engg.,
England Struce Of Higher Education & Research
(Declared as Deemed to be University U/S 3 Of UGC Act, 195
Chennai - 600 073, INDIA



# CERTIFICATE COURSE ON BUSINESS ANALYTICS & TEXT MINING MODELLING USING PYTHON

Date of Introduction of the Course: 26.09.2019

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	29-08-2019 (FN)	1. Introduction  The goal of this first module cover the introductory aspects of this particular course. This courses focused on the data mining aspects where we work with numerical you know data which is highly structured in nature and we apply various statistical data mining and mathematical techniques to solve you know prediction and classification problems.
2	30-08-2019 (FN)	2. Introductory overview of Text Mining  Describe and explain the key terms in the text mining also has significant potential for academic application and, at least when used in its basic form, benefits from being a relatively straightforward and easy tool to master.
3	31-08-2019 (FN)	3. Python Basics  Explain the concepts of Python programming language, Development environments. Web and web app development, Security of the web applications.
4	31-08-2019 (AN)	4. Python for Analytics  Describes the concepts of Python programming and gain in-depth, valuable knowledge in data analytics, machine learning, and data visualization, web scraping, and natural language processing.
5	02-09-2019	5. Built in Capabilities of Python

,	(FN)	The topic teaches you the essential concepts of
		Python programming, and gives you an in-depth
		knowledge in data analytics, machine learning.
6	03-09-2019	6. Numerical Python
	(FN)	Introduce data manipulation and cleaning
		techniques using the popular python pandas data
		science library.
	04-09-2019	7. Fundamentals of Data Manipulation with
7	(FN)	Python
		Demonstrate the field of data science, review
		common Python functionality and features which
		data scientists use.
8	05-09-2019	8. Python pandas
	(FN)	Explain the concepts and that will learn the various
		features of Python Pandas and how to use
		them in practice
	06-09-2019	9. String and Text Processing
9	(FN)	
		Demonstrate about the string object, so most of the
		text operations that we would typically like to
		perform, they can be covered by string objects
		built-in methods.
10.	07-09-2019	10. Data visualization using Python
	(FN)	Discuss about the need to setup Jupyter
		Discuss about the need to setup Jupyers environment to use matplotlib. So, for that we can
		run this particular you know magic command
		run this particular you know integro matplotlib space notebook %matplotlib space
		notebook.  11. Text collection and Transformation
11	07-09-2019	11. Text collection and Transformation
11	(AN)	Demonstrate the source of text data collection with
		the document warehouse or databases and for
		the document wateriouse of datasets
		websites using web APIs.
12	09-09-2019	12. Text mining and modelling
12	(FN)	- forwarding contraction
		Demonstrate the concept of expanding contraction
		- a lommativation, special street
		removal, stop word removal and tokenization

B. Sund

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, 1955)

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# 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

### **B.Tech Computer Science and Engineering**

### Academic year 2019-20

### **Business Analytics & Text Mininig Modeling using python**

### **DATE OF INTRODUCTION:26.09.2019**

S. No	REG.NO	NAME OF THE CANDIDATE
1	U19CB031	UPPALA SAI PRASAD
2	U19CB032	UPPALAPATI PAVAN KUMAR
3	U19CB033	UPPARI SAI RAHUL
4	U19CB034	UPPU SATHISH
5	U19CB035	UPPUTURI AKANKSHA
6	U19CB036	VADDELLI SRIJA
7	U19CB037	VADDI AKASH
8	U19CB038	VADLA SAI BHARGAVA ACHARI
9	U19CB039	VADLA SHRAVAN KUMAR
10	U19CB040	VADLA VENKAT JAYANTH ACHARI
11	U19CB041	VADLAKONDA SAI KIRAN
12	U19CB042	VADLAMUDI ANIL
13	U19CB043	VADLAMUDI MAHESH
14	U19CB044	VAKKALAGADDA BHARGAVI
15	U19CB045	VALLABHASETTI DURGA KALYAN
16	U19CB046	VALLEPU KISHAN SAI
17	U19CB047	VANKAYALAPATI DIVYA NANDHU
18	U19CB048	VANKAYALAPATI SAI KUMAR
19	U19CB049	VANNEMREDDY DINESH
20	U19CB050	VARDHINENI SAI CHARAN
21	U19CB051	VARIKOLLU TEJASSU
22	U19CB052	VASANTHAN SELVAKUMAR
23	U19CB053	VASIREDDY PRASHANTH
24	U19CB054	VATHSAVAYI SAI CHARAN RAJEEV V
25	U19CB055	VATTE ABHINAV REDDY
26	U19CB056	VATTIKUNTA MAHITHA
27	U19CB057	VEERA BOBBY VELUGUBANTLA
28	U19CB058	VEERAKUMAR A
29	U19CB059	VEERAMALLA ABHINAV RAO

30			
32	30	U19CB060	VEERANKI KRISHNA SAI
33	31	U19CB061	VEERANKI S RAMA KRISHNA
34         U19CB064         VELLANKI VENKATA PHANINDRA KUMAR NAIDU           35         U19CB065         VELPULA RISHIKESH           36         U19CB066         VELPURI SUBBARAO           37         U19CB067         VELPURI UPENDRA BABU           38         U19CB068         VELURU NITHISH REDDY           39         U19CB069         VEMAVARAPU SAI RADHESH           40         U19CB070         VEMIREDDY MONIKA           41         U19CB071         VEMIREDDY SAI KRISHNA REDDY           42         U19CB072         VEMIREDDY UPENDRA REDDY	32	U19CB062	VEERAREDDYGARI BHARATH SIMHA REDDY
35 U19CB065 VELPULA RISHIKESH 36 U19CB066 VELPURI SUBBARAO 37 U19CB067 VELPURI UPENDRA BABU 38 U19CB068 VELURU NITHISH REDDY 39 U19CB069 VEMAVARAPU SAI RADHESH 40 U19CB070 VEMIREDDY MONIKA 41 U19CB071 VEMIREDDY SAI KRISHNA REDDY 42 U19CB072 VEMIREDDY UPENDRA REDDY	33	U19CB063	VEERASAHITHYAN A
36         U19CB066         VELPURI SUBBARAO           37         U19CB067         VELPURI UPENDRA BABU           38         U19CB068         VELURU NITHISH REDDY           39         U19CB069         VEMAVARAPU SAI RADHESH           40         U19CB070         VEMIREDDY MONIKA           41         U19CB071         VEMIREDDY SAI KRISHNA REDDY           42         U19CB072         VEMIREDDY UPENDRA REDDY	34	U19CB064	VELLANKI VENKATA PHANINDRA KUMAR NAIDU
37         U19CB067         VELPURI UPENDRA BABU           38         U19CB068         VELURU NITHISH REDDY           39         U19CB069         VEMAVARAPU SAI RADHESH           40         U19CB070         VEMIREDDY MONIKA           41         U19CB071         VEMIREDDY SAI KRISHNA REDDY           42         U19CB072         VEMIREDDY UPENDRA REDDY	35	U19CB065	VELPULA RISHIKESH
38         U19CB068         VELURU NITHISH REDDY           39         U19CB069         VEMAVARAPU SAI RADHESH           40         U19CB070         VEMIREDDY MONIKA           41         U19CB071         VEMIREDDY SAI KRISHNA REDDY           42         U19CB072         VEMIREDDY UPENDRA REDDY	36	U19CB066	VELPURI SUBBARAO
39         U19CB069         VEMAVARAPU SAI RADHESH           40         U19CB070         VEMIREDDY MONIKA           41         U19CB071         VEMIREDDY SAI KRISHNA REDDY           42         U19CB072         VEMIREDDY UPENDRA REDDY	37	U19CB067	VELPURI UPENDRA BABU
40 U19CB070 VEMIREDDY MONIKA 41 U19CB071 VEMIREDDY SAI KRISHNA REDDY 42 U19CB072 VEMIREDDY UPENDRA REDDY	38	U19CB068	VELURU NITHISH REDDY
41 U19CB071 VEMIREDDY SAI KRISHNA REDDY 42 U19CB072 VEMIREDDY UPENDRA REDDY	39	U19CB069	VEMAVARAPU SAI RADHESH
42 U19CB072 VEMIREDDY UPENDRA REDDY	40	U19CB070	VEMIREDDY MONIKA
· · · · · · · · · · · · · · · · · · ·	41	U19CB071	VEMIREDDY SAI KRISHNA REDDY
43 U19CB073 VEMPA SURYA PRATHAP	42	U19CB072	VEMIREDDY UPENDRA REDDY
	43	U19CB073	VEMPA SURYA PRATHAP
44 U19CB074 VEMULA SAISAMYUKTHA	44	U19CB074	VEMULA SAISAMYUKTHA
45 U19CB075 VEMULA SANTHOSH BABU	45	U19CB075	VEMULA SANTHOSH BABU

B. Sundy

**Course Coordinator** 

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Department Of Computer Science & Engly
Bharath Institute Of Higher Education & Research
(Declared as Deemed to be University UIS 3 Of UGC Act,
Chennal - 600 073, INDIA

Ac	ademic Ye	ar		2019	-20								
Ter	m												
Co	urse Numb	er											
	urse Title			BUS	INESS	ANALYT	ICS & 1	EXT	MININIG MO	DELING	USING PY	THON	
	mber of Cr												
Тур	e of Cours	se R	egular			Elec	ctive			Add-on			
I.	Inform	nation o	n the Res	pondent:	(Tick (	(√) Approp	riately)						
1.	Percen	tage of	classas at	tandad									
	. Percentage of classes attended  0-20												
	0-20 20-40 40-60 60-80 80-100												
2.	Number of hours per week spent on the course (Other than lecture hours)												
	0-2			2-4			4-6		6-8		8-10	/	
3.	n												
3.				rse by the									
	(i) (ii)			of this cou				No					
	(iii)					ne prerequis		ye					
	(iv)					topics thro	-	current	study No				
	(1V)	Have	10 exposu	re to the ba	ackgro	und materia	31 	yes					
4.	The ex	pectatio	ns for tak	cing the co	ourse b	y the stude	ent are:						
	(a)	Enhan	ce by skill	base in th	e area	of specializ	zations	V	es				
	(b)	Get ex	posed to a	relevant s	ubject		Yes		6)				
	(c)	Curios	ity				yes						
	(d)	Better	Employm	ent Opport	tunity								
	(e)	Compl	ete Cours	e requirem	ents		yes						
	(f)		rove CGF				Yes						
Vpor	it the Inst	ructor:	Informat	tion on the	e Resp	ondent: (T	ick (√) A	pprop					
						A		В	С	D		E	
	Pace of	the Teac	hing/lectu	ire		~							
	Commer	Comment of the Subject											
	Clarity of expression					~							
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	Level of interaction					V							
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						1			D C I C		n n		
: Ex	cellent		y Good	-	C: G00	a		D: Satisfacto	ory	E: Po	or	A	

HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT
Department Of Computer Science & Engg.,
Bharath Institute Of Higher Education & Parameter
(Declared as Deemed to be University UIS 3 CTUCO ACTUO)

Chennai - 600 073. INDIA

Acade	emic Year		2019-	2019-20								
Term												
Cours	e Number											
Cours	e Title		BUSI	BUSINESS ANALYTICS & TEXT MININIG MODELING USING PYTHON								
	er of Cred	lits										
Туре	of Course	Regula	ar		Elective			Add-on	/			
					•	`						
I.	Information on the Respondent: (Tick (\sqrt{)} Appropriately)											
1.	Percent	ge of classes attended										
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					10-0		00-00		00-100			
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3.	Prepara	ition for th	e course by the	studant								
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	(ii)		ate prior exposi			No						
	(iii)		ckup relevant ad			concurrent stu						
	(iv)		exposure to the b			Jes.	idy iv c					
	(***)			weng our	- Indication	40,						
4.	The exp	expectations for taking the course by the student are:										
	(a)	Enhance by skill base in the area of specializations Yes										
	(b)	Get expos	sed to a relevant	subject		Yes						
	(c)	Curiosity				yes						
	(d)		nployment Oppo	-		yes						
	(e)		Course require	ments		yes						
	(f)	To Impro				ye						
Abou	t the Ins	tructor: In	formation on t	he Respo								
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6.			de the class		V							
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A: Ex	cellent		B: very Good	1	C. Good							

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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, 1958)

•Chennal - 600 073, INDIA

Exce	ellent		B: Ver	y Good	V	C: Goo	d		D: Satisfact	ory	E: Po	or
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		13.000	utside the c	lass		0	+			+		
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F	(f)		nprove CGI		icins		40	1				
-	(e)		plete Cours		7 6							
-	(d)		er Employm	ent One	tum!t		Ye	5				
	(c)	Curi	exposed to	a relevant :	subject		Yes	,				
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	(iii)	Had	to pickup r	elevant ad	ditions	l topics the	onap cor	yes	study No			
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١.	Perce	entage	of classes a	ttended								
l. —	Infor	mation	on the Re	spondent:	(Tick	(√) Appro	priately)					
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	nber of					OANALI	iics &	IEAI	MININIG MO	DELING I	USING PYT	THON
Cou	rse Title	•		BUS	INFC	SANAIVI	rice e	revr:	Minuo			
Cou	ırse Nur	nber										
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Aca	demic \	'ear		2010	9-20							

HEAD OF THE DEPARTMENT

### HEAD OF DEPARTMENT

Department Of Computer Science & Engg.
Bharath Institute Of Higher Education 및 Research
(Doclared as Deemed to be University U/S 3 Of UGO A 나 나 Cheanai - 500 0기가 되었다.





H INSTITUTE OF SCIENCE AND TECHNOLOGY NO. 173, Agharam Road, Solaiyur, Chennal, T.N., 600 073.

# CERTIFICATE OF PARTICIPATION



# Mr. VEERAKUMAR A

Text Mining Modelling using python "Conducted by School of Computing, For actively participating in the value added course "Business Analytics & BIHER

from 29-08-2019 to 09.09.2019

 $\mathcal{B}.\mathcal{S}$  and Course Coordinator

Head of the Department

Director

# CERTIFICATE COURSE ON BUSINESS ANALYTICS & TEXT MINING MODELLING USING PYTHON

**Introduction of the Course: 26.09.2019** 



B. Sudj

**Course Coordinator** 

Head of the Department

HEAD OF DEPARTMENT

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

Chianai - 600 073, INDIA



### Requisition letter

Date: 30.08.2019

### 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 "Introduction to R Software"-Reg

With reference to above subject, I would like to bring to your kind notice that , our department interested to organize value added course "Intoduction to R Software" – reg in our campus premises on 04.09.2019, students would be participating in this course. We request you kindly to give permission to organize this event.

Venue: CSE smart class Room

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.

OD

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

DEAN (Engineering)

Bharath Institute of Science & Technology
BHARATH INSTITUTE OF HIGHER EDUCATION & RESEARCH

(Declared as Deemed to be University U/S 3 of the Selaiyur, Chennai-600 973

Selaiyur, Chennai-600 073. India



### **CIRCULAR**

02.09.2019

The school of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on Certificate Course of Introduction to R Software for the benefit of students. This course is scheduled from 04.09.2019 to 14.09.2019 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 2	Dr. C. Nalini Mr. K. Siyasaman	Professor 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 Act, 1956) Chennai - 600 073. INDIA



### CERTIFICATE COURSE ON INTRODUCTION TO R SOFTWARE

Date of Introduction of the Course: 26.09.2019

### **COURSE SYLLABUS**

### 1. Introduction of R Sotfware

This class will introduce data management, simple descriptive statistics, and basic graphical display using the R software package

### 2. Course framework

The instructor will provide datasets and instructions for running various functions within R.

### 3. Class structure

In order to achieve learning objectives, students are expected to review provided course materials, including recorded lectures.S

### 4. Grading

The student must successfully complete the four assignments, plus the analysis of an independent data set.

### 5. Resources

This is fairly easy, but you can review the steps for downloading in one of the early videos for this class.

### 6. R Studio

R Studio is an integrated development environment for the R programming language. Use of R Studio is encouraged,.

### 7. Github

There are several ways that you can access these files, and this is also described in an early video. If you have any trouble getting files stored at github, send me an email and I can give you those files as an email attachment.

### 8. Installing R and optionally, R Studio

If you are trying to work in R at the same time as viewing the recorded lectures, it is recommended that you use a system that will allow you to follow along with the recordings and make notes as needed.

### 9. Introduction and data sets with mostly continuous variables

The class will introduce basic methods for data import, data management, simple graphics, and basic statistical analysis.

### 10. Course evaluation

The course evaluation will be done through a written questionnaire, available at the virtual learning environment, where students are asked to describe their opinions on the various stages of the course for future development.

### 11. Technology Requirements

A computer or mobile device with high-speed internet connection. This course will work best on a laptop or a desktop computer. It is possible to use the tools we employ in this course on a tablet or smartphone, but it is not recommended

### 12. Course Logistics

Modules include pre-recorded videos with built-in quizzes. These quizzes are short and ungraded but are a way to assess your understanding of the topic.

### **COURSE OBJECTIVES**

To learn and analyse and visualize data in R and learn to perform frequents in R programming software inference and modelling to understand natural phenomena and make data-based decisions.

### Specifically, the course has the following objectives:

### Students will learn

- 1. Understanding R Software
- 2. Understanding Technology requirements.
- 3. Analyse of R
- 4. Create and analysis R logistics,
- 5. Demonstrate a conceptual understanding of the R software
- 6. Perform course evaluation

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, 1955) Chennal - 600 073. INDIA



### CERTIFICATE COURSE ON INTODUCTION ON R SOFTWARE

Date of Introduction of the Course: 26.09.2019

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	04-09-2019(FN)	1. Introduction of R Sotfware This class will introduce data management, simple descriptive statistics, and basic graphical display using the R software package.
2	05-09-2019 (FN)	2. Course framework
		The instructor will provide datasets and instructions for running various functions within R.
3	06-09-2019 (FN)	3. Class structure In order to achieve learning objectives, students are expected to review provided course materials, including recorded lectures.
4,5	07-09-2019(FN )&(AN)	4. Grading 5. Resources
		The student must successfully complete the four assignments, This is fairly easy, but you can review the steps for downloading in one of the early videos for this class
6	09-09-2019 (FN)	6. R Studio R Studio is an integrated development environment for the R programming language. Use of R Studio is encouraged.
7	10-09-2019 (FN)	7. Github
		There are several ways that you can access these files, and this is also described in an early video. If you have any trouble getting files stored at github.
8	11-09-2019 (FN)	8. Installing R and optionally, R Studio If you are trying to work in at the same time as viewing the recorded lectures, it is recommended that you use a system that will allow you to follow along with the recordings and make notes as needed

9	12-09-2019 (FN)	9. Introduction and data sets with mostly continuous variables.
		The course evaluation will be done through a written questionnaire, available at the virtual learning environment.
10	13-09-2019 (FN)	10. Course evaluation The course evaluation will be done through a written questionnaire, available at the virtual learning environment, where students are asked to describe their opinions on the various stages of the course for
11.12	14 00 2010	future development
11,12	14-09-2019 (FN)&(AN)	11. Technology Requirements 12. Course Logistics
	(= ,,=(= ,,	A computer or mobile device with high-speed internet connection. This course will work best on a laptop or a desktop computer. It is possible to use the tools we employ in this course on a tablet.

**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)

Chennal - 600 073. INDIA



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  Data Analysis and Decision Making  B.Tech Computer Science and Engineering( 2019-2020)  S. No REG.NO NAME OF THE CANDIDATE											
U19CB050	VARDHINENI SAI CHARAN										
U19CB051	VARIKOLLU TEJASSU										
U19CB052	VASANTHAN SELVAKUMAR										
U19CB053	VASIREDDY PRASHANTH										
U19CB054	VATHSAVAYI SAI CHARAN RAJEEV V										
U19CB055	VATTE ABHINAV REDDY										
U19CB056	VATTIKUNTA MAHITHA										
U19CB057	VEERA BOBBY VELUGUBANTLA										
U19CB058	VEERAKUMAR A										
U19CB059	VEERAMALLA ABHINAV RAO										
U19CB060	VEERANKI KRISHNA SAI										
U19CB061	VEERANKI S RAMA KRISHNA										
U19CB062	VEERAREDDYGARI BHARATH SIMHA REDDY										
U19CB063	VEERASAHITHYAN A										
U19CB064	VELLANKI VENKATA PHANINDRA KUMAR NAIDU										
U19CB065	VELPULA RISHIKESH										
U19CB066	VELPURI SUBBARAO										
U19CB067	VELPURI UPENDRA BABU										
U19CB068	VELURU NITHISH REDDY										
U19CB069	VEMAVARAPU SAI RADHESH										
U19CB070	VEMIREDDY MONIKA										
U19CB071	VEMIREDDY SAI KRISHNA REDDY										
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Course Coordinator

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, 1958) Chennai - 600 073, INDIA

A	Academic Year 201				2019-2020									
ī	erm													
C	Course Nu	mber												
C	Course Tit	le		Introdu	iction To R	Software								
N	lumber of	Credits												
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	(iii)	Had t	to pickup re	elevant additio	ant additional topics through concurrent study									
	(iv)	Have	no exposu	re to the backs	the background material No									
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	(b)			relevant subje			Yes							
	(c)	Curios			99									
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	(f)		orove CGP	_		yes								
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i.		f interact			-									
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. E-	cellent		B: Very	Good	C: Good		D. S.	atisfactory	A	E: Poor				

HEAD OF THE DEPARTMENT

Oepariment Of Computer Science & Engage Bharath Institute Of Higher Education & Research (Declared as Deemed to be University UIS 3 Of USS Act 1935) Chennai - 600 073, INDIA

	demic Year 2019-2020											
m												
urse Num	nber											
urse Title	<del></del>		Introduc	tion To R	Software							
mber of	Credits											
pe of Co	urse	Regular		E	lective	T		Add-on	T			
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							0-0		0-10			
_		on for the cour										
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(ii)		and the second s		r exposure to the prerequisites								
(ii	_	Had to pickup relevant additional topics through concurrent study										
(iv	v)   I	Have no exposur	e to the bac	kground ma	aterial	yes						
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				se in the area of specializations  evant subject  Gopportunity  yell  yell  yell  yell								
-		Curiosity										
		Better Employm	nent Opportu									
1		Complete Cours					jes					
1	(f)	To Improve CG	PA			<u> </u>	es Yes					
About	the Inst	ructor: Inform	ation on the	Responde	nt: (Tick	(√) Appropr						
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		nt of the Subject			~	~						
		of expression				V	~					
	4. Level of preparation					~	V					
5.		f interaction				~						
6. Accessibility outside the class			e class				~					
7.		(please specify		1	1		1					

HEAD OF THE DEPARTMENT

Department Of Computer Science & Enga.

Bharath Institute Of Higher Education & Research

[Doclared as Deemed to be University U/S 3 Of UGC Act.

Acaden	nic Year		2019-202	0									
Term													
Course	Number												
Course	Title		Introduc	tion To R	Software								
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3.	Prepara	ation for the cours	e by the st	udent:									
İ	(i)	Have done part of this course earlier $NO$											
	(ii)	Has adequate prior exposure to the prerequisites											
1	(iii)	Had to pickup relevant additional topics through concurrent study											
	(iv)	Have no exposure	ure to the background material No										
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4.	The ex	The expectations for taking the course by the student are:											
	(a)	Enhance by skill base in the area of specializations											
	(b)	Get exposed to a	relevant su	bject		ges							
	(c)	Curiosity				yes							
	(d)	Better Employme											
	(e)	Complete Course		equirements Yes									
	(f)	To Improve CGF	PA		(M) 1-								
Abo	ut the In	structor: Informa	tion on the	Respond	lent: (Tick	B Approp	C		D	E			
					A	В	-	1					
1.	Pace o	f the Teaching/lecti	ure		V		,	_					
2.	Comm	ent of the Subject				V							
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5.		of interaction			~								
		sibility outside the	class			V							
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7.	Other	s (please specify											

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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, 1959)

Chennal - 600 073, INDIA





# CERTIFICATE OF PARTICIPATION



# Mr. KONDA BALAJI

For actively participating in the value added course "Introduction in R Software"Conducted by School of Computing, BIHER from 04-09-2019 to 14.09.2019

X.S. X

Head of the Department

HEAD OF DEPARTMENT

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

(Declared as Deemed to be University U/S 3 Of UGC Act. 1955)

## CERTIFICATE COURSE ON INTODUCTION TO R SOFTWARE

**Introduction of the Course: 26.09.2019** 



**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 US 3 Of USC Act, 1956)
Chennal -600,073, INDIA



### Requisition letter

Date: 5.09.2019

### 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 "Data Analysis and Decision Making"-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 and Decision Making" - reg in our campus premises on 09.09.2019, students would be participating in this course. We request you kindly to give permission to organize this event.

Venue: CSE smart class Room

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, 13

Chennal - 600 073, INDIA

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**

06.09.2019

The school of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on **Certificate Course of Data Analysis and Decision Making** for the benefit of students. This course is scheduled from 09.09.2019 to 20.09.2019 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. Micheal	Professor
2	Mes. G. Kavitha	Assistant professor

**Head of Department** 

To

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Copy to IT

HEAD OF DEPARTMENT

Department Of Computer Science & Engg.,
Bharath Institute Of Higher Education & Research
(Doctared as Deemed to be University U/S 3 Of UGC Act, 1)
Chennal - 600 073, INDIA



# CERTIFICATE COURSE ON INTRODUCTION TO DATA ANALYSIS AND DECISION MAKING

Date of Introduction of the Course: 26.09.2019

### **COURSE SYLLABUS**

### 1. Describe quantitative approaches to data collection and analysis

This class will introduce data management, simple descriptive statistics, and basic graphical display using the data approach and collection of data analysis.

### 2. Utilize descriptive statistics to describe data

This class will analysis the utilization of data descriptive statics to describe the desired data part.

### 3. Apply the process of hypothesis Testing

In order to achieve learning objectives, students are expected to review provided course materials, including recorded lectures by using the hypothesis testing.

### 4. Utilize statistical software to calculate basic

The student must successfully complete the four assignments, plus the analysis of an independent data set and utilize software to calculate the basic of data.

### 5. Apply the proper inferential statistical

The student must successfully applying the proper inferential statistics to calculate the collection of data analysis.

### 6. Qualitative and quantitative methodologies

In order to achieve learning objectives, students are expected to review provided course materials, including recorded lectures by using qualitative and quantitative methodologies.

### 7. Interpret data analysis

There are several ways that you can access these files, and this is also described in an early video. If you have any trouble getting files stored at interpret data analysis, send me an email and I can give you those files as an email attachment.

### 8. Facilitate application

If you are trying to work in at the same time as viewing the recorded lectures, it is recommended that you use a system that will allow you to follow along with the recordings and make notes as needed.

### 9. Introduction and data sets with mostly continuous variables

The class will introduce basic methods for data import, data management, simple graphics, and basic statistical analysis.

### 10. Course evaluation

The course evaluation will be done through a written questionnaire, available at the virtual learning environment, where students are asked to describe their opinions on the various stages of the course for future development.

### 11. Technology Requirements

A computer or mobile device with high-speed internet connection. This course will work best on a laptop or a desktop computer. It is possible to use the tools we employ in this course on a tablet or smartphone, but it is not recommended

### 12. Course Logistics

Modules include pre-recorded videos with built-in quizzes. These quizzes are short and ungraded but are a way to assess your understanding of the topic.

### **COURSE OBJECTIVES**

To learn and analyse and visualize data and learn to perform frequents and modelling to understand natural phenomena and make data-based decisions.

### Specifically, the course has the following objectives:

### Students will learn

- 1. Understanding data analysis
- 2. Understanding Technology requirements.
- 3. Analyse data collection
- 4. Create and analysis and requirements,
- 5. Demonstrate a conceptual understanding
- 6. Perform course evaluation

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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, 1958

Chennal - 600 073, INDIA

COURSE COORDINATOR



# CERTIFICATE COURSE ON DATA ANALYSIS AND DECISION MAKING

Date of Introduction of the Course: 26.09.2019

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	-
CLASS	DATE	TOPIC
1	09-09-2019(FN)	1. Describe quantitative approaches to data collection and analysis  This class will introduce data management, simple descriptive statistics, and basic graphical display using the data approach and collection of data analysis.
2	10-09-2019 (FN)	2. Utilize descriptive statistics to describe data
		This class will analysis the utilization of data descriptive statics to describe the desired data part.
3	11-09-2019 (FN)	3. Apply the process of hypothesis Testing In order to achieve learning objectives, students are expected to review provided course materials, including recorded lectures by using the hypothesis testing.
4	12-09-2019(FN)	4. Utilize statistical software to calculate basic The student must successfully complete the four assignments, plus the analysis of an independent data set and utilize software to calculate the basic of data.
5	13-09-2019 (FN)	5. Apply the proper inferential statistical
		The student must successfully applying the proper inferential statistics to calculate the collection of data analysis
6,7	14-09-2019 (FN)&(AN)	6. Qualitative and quantitative methodologies 7. Interpret data analysis
		Explains the critique data-based claims and evaluated data-based decisions, and wrangle and visualize data with R packages for data analysis.
8	16-09-2019 (FN)	8. Facilitate application  If you are trying to work in at the same time as viewing the recorded lectures, it is recommended.

		that you use a system that will allow you to follow
		along with the recordings and make notes as needed
9	17-09-2019 (FN)	9. Introduction and data sets with mostly continuous variables.  The course evaluation will be done through a written
		questionnaire, available at the virtual learning environment.
10	18-09-2019 (FN)	10. Course evaluation The course evaluation will be done through a written questionnaire, available at the virtual learning environment, where students are asked to describe their opinions on the various stages of the course for future development
11	19-09-2019 (FN)	11. Technology Requirements A computer or mobile device with high-speed internet connection. This course will work best on a laptop or a desktop computer. It is possible to use the tools we employ in this course on a tablet.
12	20-09-2019 (AN)	12. Course Logistics  Modules include pre-recorded videos with built-in quizzes. These quizzes are short and ungraded but are a way to assess your understanding of the topic.

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Chennai - 600 073, INDIA



### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING Intoduction To R Software

### B.Tech Computer Science and Engineering (2019-2020)

S. No	REG.NO	NAME OF THE CANDIDATE
1	U19CN001	KODUMURI HEMANTH KUMAR
2	U19CN002	KOGANTI MANOJ SAI
3	U19CN003	KOGURU INDRASENA REDDY
4	U19CN004	KOLA VAMSI VARDHAN
5	U19CN005	KOLAGANI VALESH
6	U19CN007	KOLLURI SAI SUMANTH
7	U19CN008	KOLLURI SINDHU SRI VANI
8	U19CN009	KOLLURU LAKSHMI NARAYANA SETTY
9	U19CN010	KOLLURU PRADEEP
10	U19CN011	KOMARAVELLY MAYUR
11	U19CN012	KOMMA HARI SAI PRADHYUMNA
12	U19CN013	KOMMANENI GAYATRI DEVI
13	U19CN014	KOMMI SAI SANDEEP KUMAR
14	U19CN015	KOMMINENI AJAY
15	U19CN016	KOMMINENI NAVEEN
16	U19CN017	KOMMU JASWANTH
17	U19CN018	KOMMU KUMAR
18	U19CN019	KONAKALLA REVANTH KUMAR
19	U19CN020	KONAKANCH RUDRA
20	U19CN021	KONAKANCHI GOPI CHAND
21	U19CN022	KONDA BALAJI
22	U19CN023	KONDA SRINIVASA REDDY
23	U19CN024	KONDAVEETI BALAJI
24	U19CN025	KONDAVETI SARVAN NAGA PAVAN
25	U19CN026	KONDIBOINA MADHU KUMAR
26	U19CN027	KONDU CHARITHA REDDY
27	U19CN028	KONDUPALLI GREESHMANTH KUMAR R
28	U19CN029	KONDURU KALYAN VARMA
29	U19CN030	KONETI SAI ANVITHA
30	U19CN031	KOPANATHI SIVAJI
31	U19CN032	KORRAPATI BHUVANESWARA CHARI
32	U19CN033	KORUKONDA LOKESH SATYA VEERASAI
33	U19CN034	KOTA VENKATRAO
34	U19CN035	KOTAPATI ASHOK REDDY
35	U19CN036	KOTEKANTI MOHAMMED ARIF
36	U19CN037	KOTHAPALLI LOKESH

37	U19CN038	KOTHAPALLI PREMVEER
38	U19CN039	KOTIPALLI SYAM SUNDAR
39	U19CN040	KOTLA SHASHANK
40	U19CN041	KOTTADA SATYA PRAKASH
41	U19CN042	KOTTURI SANDEEP KUMAR
42	U19CN043	KOVVURU HARSHA VARDHAN REDDY
43	U19CN044	KRUPASHANKARI S
44	U19CN045	KUDIKALA AKHIL
45	U19CN046	KUDITHI SAIMOHAN REDDY

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

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3.	_	Preparation for the course by the student:  (i) Have done part of this course earlier													
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3.		Preparation for the course by the student:  (i) Have done part of this course earlier													
	(ii)							No							
	(iii)	Has adequate prior exposure to the prerequisites  Had to pickup relevant additional topics through concurrent study													
	` ′	90													
	(iv) Have no exposure to the background material														
4.	The expectations for taking the course by the student are:														
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	(b)	Get	exposed to	relevant s	ubject		0101	90	<i></i>						
	(c)	Curi	osity				yes	1							
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	(e)	Com	plete Cours	e requirem	ents		yes								
	(f)	To Ir	nprove CGI	PA			yes								
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Aca	demic Y	ear		2019	2019-2020									
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	(c)	Curiosity	y				yes							
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	(e)	Complet	e Cours	e requireme	ents		yes							
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A: Ex	A: Excellent B: Very Good						d		D: Satisfactor	ry	E: Poor			

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





# **NSTITUTE OF HIGHER EDUCATION AND RESEARCH**

# CERTIFICATE OF PARTICIPATION



# Mr. VEERA KUMAR

For actively participating in the value added course "Data Analysis and Decision Making" Conducted by School of Computing, BIHER from 09-09-2019 to 20.09.2019





Director

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

### CERTIFICATE COURSE ON DATA ANALYSIS AND DECISIONMAKING

Introduction of the Course: 26.09.2019



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, 1955).

Chennal - 600 073, INDIA:

Date:02.09.2019

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 "Business Analytics & Data Mining Modeling Using R Part I" -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 "Business Analytics & Data Mining Modeling Using R Part I" in our campus premises on 09.09.2019, students would be participating in this course. We request you kindly to give permission to organize this event.

Venue: CSE Smart Room

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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HEAD OF DEPARTMENT
Department of Computer Science & Engg.
Bharath Institute Of Higher Education & Researce
(Declared as Deemed to be University U/S 3 Of UGC...
Chennal - 600 073, INDIA

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**

05.09.2019

The School of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on **Business Analytics & Data Mining Modelling Using R Part I** for the benefit of students. This course is scheduled from 09.09.19 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.A.V.Allin Geo	Assistant Professor

Head of Department

To

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Department Of Computer Science & Engg..

Bharath Institute Of Higher Education & Respective (Declared as Deemed to be University U/S 3 CTUGC Act, 195

Chennal - 600 073, INDIA



### CERTIFICATE COURSE ON BUSINESS ANALYTICS & DATA MINING MODELLING USING R PART I

Date of Introduction of the Course: 26.09.2019

### **COURSE SYLLABUS**

### 1. Introduction and Data Mining and R:

General Overview of Data Mining and its Components Introduction and Data Mining Process Introduction to R Basic Statistical Techniques

### 2. Concepts of Visualization Techniques:

Data Preparation and Exploration Visualization Techniques

### 3. Component Analysis Techniques

Data Preparation and Exploration Visualization Techniques Dimension Reduction Techniques Principal Component Analysis

### 4. Prediction and Classification:

Performance Metrics and Assessment Performance Metrics for Prediction and Classification

### 5. Linear Regression:

Supervised Learning Methods Multiple Linear Regression

### 6. Naave Bayes in R & Data Mining:

Supervised Learning Methods Naave Bayes

### 7. Classification & Regression Trees Methods:

Supervised Learning Methods Classification & Regression Trees

### **COURSE OBJECTIVES**

Objective of this course is to impart knowledge on use of data mining techniques for deriving business intelligence to achieve organizational goals. Use of R (statistical computing CSS -MOOCs Proposal software) to build, assess, and compare models based on real datasets and cases with an easy-to-follow learning curve.

### Specifically, the course has the following objectives:

- 1. Understand concepts around Business Intelligence and Business Analytics
- 2. Explore Recommendation Systems with functions like Association Rule Mining, userbased collaborative filtering and Item-based collaborative filtering among others
- 3. Apply various supervised machine learning techniques
- 4. Perform Analysis of Variance (ANOVA)
- 5. Learn where to use algorithms Decision Trees, Logistic Regression, Support Vector Machines, Ensemble Techniques etc

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, 1853 Chennal - 600 073, INDIA



# CERTIFICATE COURSE ON BUSINESS ANALYTICS & DATA MINING MODELLING USING R PART I

Date of Introduction of the Course: 26.09.2019

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	09-09-2019(FN)	1.Introduction and Data Mining and R: General Overview of Data Mining and its Components Introduction and Data Mining Process Introduction to R Basic Statistical Techniques
2	10-09-2019 (FN)	2.Concepts of Visualization Techniques: Data Preparation and Exploration Visualization Techniques
3	11-09-2019 (FN)	3.Component Analysis Techniques Data Preparation and Exploration Visualization Techniques Dimension Reduction Techniques Principal Component Analysis
4	12-09-2019 (FN)	4.Prediction and Classification: Performance Metrics and Assessment Performance Metrics for Prediction and Classification
5	13-09-2019 (FN)	5.Linear Regression: Supervised Learning Methods Multiple Linear Regression
6,7	14-09-2019 (FN&AN)	6.Naave Bayes in R & Data Mining: Supervised Learning Methods Naave Bayes
8	16-09-2019	7.Classification & Regression Trees Methods: Supervised Learning Methods Classification & Regression Trees

**COURSE COORDINATOR** 

HEAD OF THE DEPARTMENT

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



## **Department of Computer Science and Engineering**

### **School of Computing**

Business Analytics & Data Mining Modeling Using R Part I Registered Students Name List

S.No	RegNo	Student Name
S.No	REG.N0	NAME OF THE CANDIDATE
1	U19CB001	THANNEERU RAM PRIYATHAM CHOWDARY
2	U19CB002	THARALA PRANAY
3	U19CB003	THATIPARTHI PAVAN KALYAN REDDY
4	U19CB004	THELLAGORLA RAM GOPI
5	U19CB005	THELLURI HEMANTH RATNA SAGAR REDDY
6	U19CB006	THIRUMAL REDDY NITHIN KUMAR REDDY
7	U19CB007	THIRUMALAI VASAN R
8	U19CB008	THIRUMANI THARUN
9	U19CB009	THOKALA SRI RAM CHARAN
10	U19CB010	THOTA ANAND
11	U19CB011	THOTA BHARATH KUMAR
12		THOTA DINESH
13	U19CB013	THOTA HEMANTH
14	U19CB014	THOTAKURA VEERA SATYA SAI CHANDRA
15	U19CB015	THULLURI SAI RAM
16	U19CB016	TIKKALA PARTHIV ADITYA
17	U19CB017	TIRUMALASETTI PAVAN SAI
18	U19CB018	TIRUVEEDULA SATISH
19	U19CB019	TOGARANA YASWANTH
20	U19CB020	TOKLE PRASAD UDDHAV
21	U19CB021	TUMMALA ANJAN MAHESH BABU
22	U19CB022	TUNGALA TEJOSAI
23	U19CB023	ULLI MANIKANTA
24	U19CB024	UMMAGANI VIGNESH
25	U19CB025	UNDAMATLA VENKATA PRASAD
26	U19CB026	UNDELA LEKHANA
27	U19CB027	UNDRA VAMSI KRISHNA
28	U19CB028	S UPENDRA REDDY
29	U19CB029	UPPALA HARSHAVARDHAN SAI
30	U19CB030	UPPALA RAKESH

Course Oordinator

HEAD OF DEPARTMENT

HOD

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

Acade	mic Year		2019-2	2019-2020								
Term												
Course	e Number	r						D.D.	4.7			
Cours	e Title		Busines	ss Analy	tics & Dat	a Mining Mo	odeling Using	K Par	T 1			
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2.	0-2		2-4		4-0					8-10		
3.	Prepara	ition for the co	urse by the s	tudent:								
	(i)	Have done par	t of this cours	se earlie	r		`	tes				
	(ii)	Has adequate p	orior exposure	e to the	prerequisite	es		No				
	(iii)	Had to pickup	relevant addi	tional to	opics throug	gh concurren	t study	YU				
	(iv)	Have no expos	sure to the bac	ckgroun	d material			Yes				
4.		pectations for t					\ A					
	(a)	Enhance by sk			specializat	ions	7	<u>u</u>				
	(b)	Get exposed to	a relevant su	ibject			Ye	<b></b>				
	(c)	Curiosity		•••			<u> </u>	us				
	(d)	Better Employ			×		>	es				
	(e)	Complete Cou	• 30	ents				les				
A !-	(f)	To Improve Co		D	- J 4. (T)	1- (a) A		las				
Abou	t the Ins	tructor: Inforn	nation on the	Respon								
1.	Daga of	the Teach!= =/!-	oturo		A	В	С		D		<b>E</b>	
2.		the Teaching/leant of the Subjec			V (							
3.							<b>✓</b>					
4.		of expression					N					
5.		f preparation f interaction		-		1						
6.		bility outside the	a alace		<u> </u>	V						
7.		please specify			<b>✓</b>				- No.			
	Outers	prease specify				<b>/</b>						
A: Ex	cellent	✓ B:	Very Good		C: Good		D: Satisfa	ctory	1	E: Poor		

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 USC Ac.,
Chennal - 509 073 (NDIA)

Acade	mic Year		2019-20	2019-2020									
Term													
Cours	e Number												
Cours	e Title		Busines	s Analytics &	Data Mir	ing Mod	deling U	sing R I	Part I				
Numb	per of Cred	lits							- urt i				
Type	of Course	Regula	ır	Ele	ective			A	dd-on	1			
										1			
I.	Informa	tion on the	Respondent: (T	ick (√) Appro	priately)								
1.	Percents	age of class	es attended										
	0-20	ige of class	20-40										
	0-20		20-40		40-60	1	60-80			80-100			
2. Number of hours per week spent on the course (Other than lecture hours)													
	0-2		2-4	•	4-6			-8		8-10			
2													
3. Preparation for the course by the student:  (i) Have done part of this course earlier													
	(ii)		ate prior exposure			Ye	<i>'</i> S						
	(iii)		kup relevant addi			current s	study	Yes					
	(iv)	Have no ex	xposure to the bac	kground mate	rial	N	0						
4.	The exp	ectations f	or taking the cou	irse by the stu	ident are:								
	(a)		y skill base in the				Yes						
	(b)	Get expose	ed to a relevant su	bject			√00 √0						
	(c)	Curiosity				N							
	(d)	Better Em	ployment Opporti	ınity		1 1	23						
	(e)	Complete	Course requireme	ents			'es						
	(f)	To Improv	e CGPA		6	1	10						
Abou	ut the Ins	tructor: Inf	formation on the	Respondent:	(Tick (√)								
				A		В	(		D		E		
1.	Pace of	the Teachin	g/lecture	V									
2.		nt of the Su	-				\	1					
3.		of expressio		V									
4.		f preparation			1								
5.		f interaction			1								
6.		bility outsic		/	1								
7.	Others	(please spec	ify										
A: F	Excellent		B: Very Good	C: G	ood		D: Sati	sfactor	v	F. Daa			
		0	- J 5000				~ · Suti	-inciti		E: Poor	1		

HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT

Department Of Computer Science & Engg.,
Bharath Institute Of Higher Education & Research
(Occlared as Deemed to be University U/S 3 Of UGC Act, 1... v.

Acade	emic Year	•	2019-20	2019-2020									
Term													
Cours	se Numbe	r											
Cours	se Title		Busines	s Analytics &	Data Mining	g Modeling	Using R	Part I					
Numl	per of Cre	edits											
Type	of Course	Regular		Elec	ctive			Add-on					
I.	Inform	ation on the Res	spondent: (T	ick (√) Approi	oriately)								
				( )									
1.	Percent	tage of classes a	ttended										
	0-20		20-40		40-60		60-80		80-100				
2.	NT.								1				
2.		r of hours per w		the course (C		ecture hou	ırs)						
	0-2		2-4 4-6 6-8 8-10										
3.	Prepara	ation for the cou	irse by the st	udent:									
	(i)	Have done part											
	(ii) Has adequate prior exposure to the prerequisites												
	(iii)	Had to pickup				mont atud.		Yes					
	(iv)	Have no expos				Tent study		Yes					
			are to the bac	kground materi				Yes					
4.	The exp	pectations for ta	king the cou	rse by the stud	lent are:			•					
	(a)	Enhance by ski	ll base in the	area of speciali	zations			No					
	(b)	Get exposed to	a relevant sul	oject				NIO					
	(c)	Curiosity						No					
	(d)	Better Employr	nent Opportu	nity				Yes					
	(e)	Complete Cour	se requiremen	nts	- i			Vei					
	(f)	To Improve CG	PA	3-1900.00 to				.No					
Abou	t the Inst	tructor: Inform	ation on the	Respondent: (	Γick (√) Ap <sub>l</sub>	propriately	y)	140					
				A	В		С	D		E			
1.	Pace of	the Teaching/lec	ture					1/					
2.	Comme	nt of the Subject				,	/						
3.	Clarity of	of expression											
4.	Level of	preparation		V					V	,			
5.	Level of	finteraction											
6.	Accessibility outside the class												
7.	Others (	please specify	200000000000000000000000000000000000000										
A . E -	cellent	/ n.v	lami Caad			m =							
A. E.	Cenent	⊮   B: V	ery Good	C: Goo	)a	D: Sa	atisfactor	y	E: Poor				

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, 11...
Chennal - 600 073, INDIA

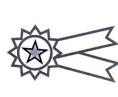


# Bharath university

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH



# CERTIFICATE OF PARTICIPATION



# Mr. THOTA ANAND

For actively participating in the value added course "Business Analytics & Data Mining Modelling Using R Part I "Conducted by School of Computing, BIHER from 09.09.19



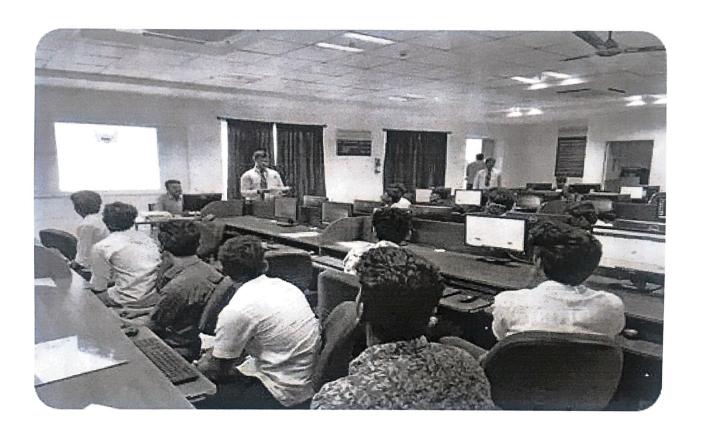
Director

Course Coordinator

Head of the Department

# Business Analytics & Data Mining Modelling Using R Part I

**Introduction of the Course: 26.09.2019** 



**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 Ac.,
Chennai - 600 073, INDIA

Date: 03.09.2019

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 Set Theory, Arithmetic and Logic" -Reg

With reference to above subject, I would like to bring to your kind notice that, our department interested to organize value added course "Introduction to Fuzzy Set Theory, Arithmetic and Logic" -Reg in our campus premises on 16.09.2019, students would be participating in this course. We request you kindly to give permission to organize this event.

Venue: CSE Smart Room

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.

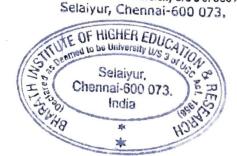
HEAD OF DEPARTMENT

Department Of Computer Science & Engg.,

Bharath Institute Of Higher Education & Responsh
(Declared as Deemed to be University U/S 3 Of UGC Acq. 1955)

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. 1956)





# **CIRCULAR**

06.09.2019

The School of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on **Introduction To Fuzzy Set Theory, Arithmetic And Logic**for the benefit of students. This course is scheduled from 16.09.19 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).

Name of the Faculty	Designation
Dr C Raiabhushanam	Professor
	Assistant Professor
	Name of the Faculty  Dr.C.Rajabhushanam  Mr.A.V.Allin Geo

**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 Act. 1959)

Chennai - 600 073. INDIA



# INTRODUCTION TO FUZZY SET THEORY, ARITHMETIC AND LOGIC Date of Introduction of the Course: 26.09.2019 **COURSE SYLLABUS**

1. Introduction to Fuzzy:

Introduction to Fuzzy sets, Crisp vs Fuzzy Types of Fuzzy sets, Membership functions, Alpha

2. Operation on fuzzy Techniques:

Operation on fuzzy sets, t-norm, complements t-conorm, combination of operartions

3. Fuzzy arithmetic Interval Concepts:

Introduction to Fuzzy arithmetic Interval arithmetic

4. Logic of Alpha cuts:

+, -, \* using alpha cuts MIN and MAX fuzzy numbers

5. Alpha cuts Principals:

Fuzzy arithmetic using Alpha cuts continued Decomposition principle

6. Extension Principle Fuzzy Methods:

Extension principle Fuzzy arithmetic using Extension Principle Fuzzy Equations

7. Relations of Fuzzy Methods:

Relations, Introduction to fuzzy relations Projections, Equivalence relation, transitive closure, compatibility relation

# **COURSE OBJECTIVES**

The primary purpose of this course is to introduce students to the areas of Fuzzy set theory and Fuzzy logic. No previous knowledge is needed regarding Fuzzy set theory or Fuzzy logic. But familiarity with Classical set theory, and Two-valued logic will be helpful. In most real-life applications of any decision making, one needs to face many types on uncertainty. While as humans we can deal with this uncertainty with our reasoning prowess, it is not clear how to deal with this uncertainty in a system.

# Specifically, the course has the following objectives:

- 1. Be able to distinguish between the crisp set and fuzzy set concepts
- 2. Student can learn the between the crisp set characteristic function and the fuzzy set membership function.
- 3. Students be able to draw a parallelism between crisp set operations and fuzzy set operations through the use of characteristic and membership functions respectively.
- 4. Students will be aware of the use of fuzzy inference systems in the design of intelligent or humanistic systems.

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 Act, 1956)

Chennai - 600 073, INDIA



# INTRODUCTION TO FUZZY SET THEORY, ARITHMETIC AND LOGIC

Date of Introduction of the Course: 26.09.2019

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
CLITOS	DITTE	1.Introduction to Fuzzy:
1	17-09-2019(FN)	Introduction to Fuzzy sets, Crisp vs Fuzzy Types of Fuzzy sets, Membership functions, Alpha
2	18-09-2019 (FN)	2.Operation on fuzzy Techniques: Operation on fuzzy sets, t-norm, complements t- conorm, combination of operartions continued
		3. Fuzzy arithmetic Interval Concepts:
3	19-09-2019 (FN)	Introduction to Fuzzy arithmetic Interval arithmetic
4	20-09-2019 (FN)	4.Logic of Alpha cuts: +, -, * using alpha cuts MIN and MAX fuzzy numbers
5,6	21-09-2019 (FN&AN)	5.Alpha cuts Principals: Fuzzy arithmetic using Alpha cuts continued Decomposition principle
7	23-09-2019(FN)	6.Extension Principle Fuzzy Methods: Extension principle Fuzzy arithmetic using Extension Principle Fuzzy Equations
8	24-09-2019(FN)	7.Relations of Fuzzy Methods: Relations, Introduction to fuzzy relations Projections, Equivalence relation, transitive closure, compatibility relation

COURSE COORDINATOR

HEAD OF THE DEPARTMENT

HEAD OF BUREAR TRAIN

Department of the burear Science & Program

Bharath in stitute on higher cubcation & Science

(Bookers as Deamed to be University U/S 3 Of This according Change - 600 073, INDIA



# Department of Computer Science and Engineering School of Computing

Introduction To Fuzzy Set Theory, Arithmetic And Logic
Registered Students Name List

S.No	RegNo	Student Name			
S.No	REG.N0	NAME OF THE CANDIDATE			
1	· U19CB031	UPPALA SAI PRASAD			
2	U19CB032	UPPALAPATI PAVAN KUMAR			
3	U19CB033	UPPARI SAI RAHUL			
4	U19CB034	UPPU SATHISH			
5	U19CB035	UPPUTURI AKANKSHA			
6	U19CB036	VADDELLI SRIJA			
7	U19CB037	VADDI AKASH			
8	U19CB038	VADLA SAI BHARGAVA ACHARI			
9	U19CB039	VADLA SHRAVAN KUMAR			
10	U19CB040	VADLA VENKAT JAYANTH ACHARI			
11	U19CB041	VADLAKONDA SAI KIRAN			
12	U19CB042	VADLAMUDI ANIL			
13	U19CB043	VADLAMUDI MAHESH			
14	U19CB044	VAKKALAGADDA BHARGAVI			
15	U19CB045	VALLABHASETTI DURGA KALYAN			
16	U19CB046	VALLEPU KISHAN SAI			
17	U19CB047	VANKAYALAPATI DIVYA NANDHU			
18	U19CB048	VANKAYALAPATI SAI KUMAR			
19	U19CB049	VANNEMREDDY DINESH			
20	U19CB050	VARDHINENI SAI CHARAN			
21	U19CB051	VARIKOLLU TEJASSU			
22	U19CB052	VASANTHAN SELVAKUMAR			
23	U19CB053	VASIREDDY PRASHANTH			
24	U19CB054	VATHSAVAYI SAI CHARAN RAJEEV V			
25	U19CB055	VATTE ABHINAV REDDY			
26	U19CB056	VATTIKUNTA MAHITHA			
27	U19CB057	VEERA BOBBY VELUGUBANTLA			
28	U19CB058	VEERAKUMAR A			
29	U19CB059	VEERAMALLA ABHINAV RAO			
30	U19CB060	VEERANKI KRISHNA SAI			
31	U19CB061	VEERANKI S RAMA KRISHNA			
32	U19CB062	VEERAREDDYGARI BHARATH SIMHA REDDY			
33	U19CB063	VEERASAHITHYAN A			
34	U19CB064	VELLANKI VENKATA PHANINDRA KUMAR NAIDU			
35	U19CB065	VELPULA RISHIKESH			
36	U19CB066	VELPURI SUBBARAO			
37	U19CB067	VELPURI UPENDRA BABU			

38	U19CB068	VELURU NITHISH REDDY
39	U19CB069	VEMAVARAPU SAI RADHESH
40	U19CB070	VEMIREDDY MONIKA
41	U19CB071	VEMIREDDY SAI KRISHNA REDDY
42	U19CB072	VEMIREDDY UPENDRA REDDY
43	U19CB073	VEMPA SURYA PRATHAP
44	U19CB074	VEMULA SAISAMYUKTHA
45	U19CB075	VEMULA SANTHOSH BABU
46	U19CB076	VEMUN <b>OORI</b> MANITEJ <b>A</b>
47	U19CB077	VENGALA SHASHANK
48	U19CB078	VENKATA SAI MOUNIKA NOMULA
49	U19CB079	T VENKATA SUSMITHA
50	U19CB080	VENNAM RAMAKRISHNA REDDY

Course Coordinator

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

Acade	emic Year		2019-20	20						
Term							,			
Cours	e Number	•								
Cours	se Title		Introduc	Introduction To Fuzzy Set Theory, Arithmetic And Logic						
Numb	er of Cre	dits								
Type	of Course	Regular		Ele	ective			Add-on		
				•						
I.	Informa	ntion on the Resp	ondent: (Ti	ck (√) Appro	opriately)					
		6.1								
1.		age of classes atte			10.60		(0.00		90 100	
	0-20		20-40		40-60		60-80		80-100	
2.	Number	r of hours per we	ek spent on	the course (	Other tha	n lecture ho	urs)	>		
	0-2		2-4		4-6	VA	6-8	T	8-10	
			000 200			V (			0 0.200	5/
3.	Prepara	ation for the cour	se by the st	udent:						
	(i)	Have done part of	of this course	e earlier			ye.	S		
	(ii)	Has adequate pri	or exposure	exposure to the prerequisites						
	(iii)	Had to pickup re	levant addit	ional topics th	hrough cor	current stud	y	128		
	(iv)	Have no exposur	re to the bac	kground mate	erial			No		
	T									
4.		pectations for tak					•			
	(a)	Enhance by skill			alizations	Je	8			
	(b)	Get exposed to a	relevant su	bject ————			es			
	(c)	Curiosity				N				
	(d)	Better Employm				N	0.			
	(e)	Complete Cours		nts 		y	28			
	(f)	To Improve CGI				2.0	10.			
Abou	ut the Ins	tructor: Informa	ition on the				ely)			
				A		В	C	D		E
1.		the Teaching/lect	ure							
2.										
3.	,									
	4. Level of preparation			1						
5.	Level of interaction			1						
6.		ibility outside the	class							
7.	Others	(please specify				V				
A: F	Excellent	R. 31	ery Good	C. 4	Cood					
		1 5 V	ery Good	C: C	Good	D:	Satisfac	tory	E: Poo	

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 UGU A. . . . . . . . . Chennai - 600 073. IND A

Aca	demic Ye	ar	2019-2	020						
Tern	n									
Cou	rse Numb	per							V	
Cou	rse Title		Introdu	ction To Fuzzy	Set Theory,	, Arithmetic Ar	d Logic			
Nun	ber of C	redits		······································						
Туре	e of Cour	se Regular		Ele	ctive		Add-on	1		
I.	Information on the Respondent: (Tick ( $\sqrt{\ }$ ) Appropriately)									
1.	Doroor	itage of classes a	ttonded							
1.	0-20	itage of classes a	20-40		10.60		00	90 100	T 0	
	0-20		20-40		40-60	60	-80	80-100		
2.	Numb	er of hours per v	week spent on	the course (C	Other than le	ecture hours)				
	0-2		2-4		4-6	6-8	3	8-10		
2										
3.		ation for the co					yes			
	(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									
	(iii)				-	rent study	yes			
	(IV)	Have no expos	ure to the back	kground materi	al		No	•		
4.	The ex	pectations for ta	king the cour	rse by the stud	lent are:					
	(a)	Enhance by ski	ill base in the	area of speciali	zations		yes			
	(b)	Get exposed to	a relevant sub	oject			400	7		
	(c)	Curiosity	-				93	2 2		
	(d)	Better Employs	nent Opportur	nity			N/D			
	(e)	Complete Cour	se requiremen	ts			U	Q .		
	(f)	To Improve CO					M	<i>p</i> .		
Abou	it the Ins	tructor: Inform	ation on the F	Respondent: (7	Γick (√) App	propriately)				
				A	В	С	D		E	
1.		the Teaching/lec		V			,	-		
2.	3000									
3.	, , , , , , , , , , , , , , , , , , , ,				V					
<ul><li>4.</li><li>5.</li></ul>	and the second post of the secon			M						
6.	Level of interaction  Accessibility outside the class									
7.		please specify	ciass	N						
	Oulers (	piease specify			1	,				
A: Ex	cellent	B: V	ery Good	C: G00	d	D: Satisfa	ictory	F. Poor		

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, 1953. Chennal - 600 073, INDIA

Acade	mic Year	ic Year 2019-2020									
Term	m										
Cours	e Number	•									
Cours	e Title			Introduc	tion To	Fuzzy Set T	heory, Arith	metic And Lo	gic		
Numb	er of Cre	dits									
Type	of Course	Re	gular			Elective			Add-on		7
I.	Information on the Respondent: (Tick ( $$ ) Appropriately)										
1.	Percentage of classes attended										
	0-20	Ī		20-40		40-6	0	60-80	T	80-100	1./
						1.00		00 00			
2.	Number	of hou	rs per we	ek spent on	the co	urse (Other	than lectur	e hours)			
	0-2			2-4		4-6		6-8		8-10	1
3.	3. Preparation for the course by the student:										
	(i)			of this course		,		•	1 01		
	(ii)					rerequisites			No		
	(iii)						concurrent	study	NO		
	(iv)			e to the bac					ges	,	
									yes		
4.	The exp	ectatio	ns for tak	ing the cou	rse by t	he student	are:				
	(a)	Enhand	ce by skill	base in the	area of	specializatio	ons		No		
	(b)			relevant su	bject				yes		
	(c)	Curios	ity						No		
	(d)			ent Opportu					yes		
	(e)			e requireme	nts				ye	28 .	
	(f)		rove CGI						No	9 ,	
Abou	t the Inst	tructor:	Informa	tion on the	Respon		(√) Approp	• 1		1	
						A	В	C	D		E
1.			ching/lectu	ure							
2.			Subject			V					
3.	Clarity of expression						V				
4.	The state of the s						14				
5.	Level o					V					
6.			itside the	class							
7.	Others	please s	pecify				4				
A: E:	A: Excellent B: Ver					C: Good		D: Satisfac	tory	E: Po	or

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 - 500 073 UND -



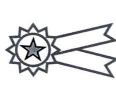
# Sharath university

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH





# CERTIFICATE OF PARTICIPATION



# Mr. VEERAKUMAR A

Set Theory, Arithmetic And Logic "Conducted by School of Computing, For actively participating in the value added course "Introduction to Fuzzy **BIHER from 16.09.19** 



Director

# Introduction To Fuzzy Set Theory, Arithmetic and Logic Introduction of the Course: 26.09.2019



**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, 1355)
Chennal - 600 073, INDIA

Date:03.09.2019

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

To
The PRO ViceChanceller,
Bharath Institute of Higher Education and Research,
Chennai

Respected sir

Subject: Request of Permission to conduct a value-added course on "**DOT NET COMPUTER COURSE**" -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 "DOT NET COMPUTER COURSE" in our campus premises on 19.09.2019, students would be participating in this course. We request you kindly to give permission to organize this event.

Venue: CSE Smart Room

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

Selaiyur,
Chennai-600 073

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

HEAD OF DEPARTMENT

HOD

Department Of Computer Science & Engg..

Bharath Institute Of Higher Education & Research
(Declared as Deemed to be University UIS 2 Of USC Act, 1955)

Chemnal - 600 073, INDIA

Januar Ja

# DEAN ENGINEERING

Bharath Institute of Science & Technology
BHARATH INSTITUTE OF HIGHER EDUCATION & RESEAS
IDeclared as Deamed to be University U/S 3 of UGC Act. 1955
Selaiyur, Chennai-600 073.



# **CIRCULAR**

06.09.2019

The school of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on **DOTNET COMPUTER COURSE** for the benefit of students. This course is scheduled from 19.09.2019 to 28.09.2019 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. Cr. Hechoul	Professor
2	May, S. Karitha	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 Acc,
Chennal - 600 073, INDIA



# CERTIFICATE COURSE ON DOTNET COMPUTER COURSE

Date of Introduction of the Course: 03.10.2019

# **COURSE SYLLABUS**

## 1. MS Paint

To learn and analyse and visualize Presentation and setup of user interface and help. Open and save an image

# 2. Photoshop

Demonstrates a conceptual understanding getting Acquainted with Photoshop Basic Image Manipulation.

# 3. PageMaker

Getting Acquainted with Photoshop ,Basic Image Manipulation

# 4. Coral Draw

Getting started with Corel Draw, Introduction to Corel Draw, Features of Corel Draw, Corel Draw Interface, Tool Box, Moving from Adobe Illustrator to Corel Draw, Common Tasks

# 5. Broadband Internet connectivity

Design Process, Designing Aids, Printing and presentation

# 6. Network Rack 4U for 24 port

Drawing and Coloring, Selecting Objects, Creating Basic Shapes, Reshaping Objects, Organizing objects, Applying color fills and Outlines

# 7. Patch Panel 24 Port

Applying Effects, Power of Blends Distortion, Contour Effects, Envelopes, Lens effects, Transparency, Creating Depth Effects, Power Clip

# 8. Digital Web Cam High Resolution

Corel Draw- Web resources, Internet Tool bar, Setting your webpage, Exporting files, Creating buttons with rollover effects .

# 9. Projector Screen Matte (antiglare) screen roll type

Working with Text and Graphics, Using Graphics, Applying Colors to Graphics, Framing Graphics, Cropping and masking Graphics, Working with Layers, Working with Master pages, Working with Plugins, Using Text Wrap

# 10. Screw Driver Set Standard

Effectively utilize the multiple methods of manipulating, retouching, refurbishing art work, photographs

# 11. Patch Panel 24 Port

Gain entry level position in Graphic design and animation

# 12. Broadband Internet connective

Understand multiple image types and the best application of each for graphic design, print and the web

# **COURSE OBJECTIVES**

To learn and analyse and visualize data in R and learn to inference and modelling to the best application of each for graphic design, print and the web

# Specifically, the course has the following objectives:

# Students will learn

- 1. Understanding Projector Screen Matte
- 2. Understanding Digital Web Cam High Resolution
- 3. Analyse and visualize Screw Driver Set Standard
- 4. Create Basic Image Manipulation

Course

5. Demonstrate a Getting Acquainted with Photoshop

HEAD OF DEPARTMENT

Department Of Computer Science in English Bharath Institute Of Higher Education & Research (Doclared as Deemed to be University U/S 3 Of UGC Act, 193

Chennai - 600 073, INDIA



# CERTIFICATE COURSE Short term course on DOT NET COMPUTER COURSE

Date of Introduction of the Course: 03.10.2019

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	DATE	THE COMMON LANGUAGE RUNTIME
		CLR Architecture and Services
	19-09-2019(FN)	The .Net Intermediate Language (IL)
1	17-07-2017(111)	Just- In- Time Compilation and CLS
1		Disassembling .Net Application to IL
		Strict Type Checking
		2.NET FRAMEWORK CLASS LIBRARY
	20-09-2019 (FN)	System Namespace, System .Object Namespace,
3		System .Collection Namespace ,System .Type
		Exception
		3. LANGUAGE FUNDAMENTAL
		Data type and Control Constructs, Value and
	21-09-2019	Reference Types, Declaring and Initializing
4	(FN&AN)	Variables, Unicode Characters and Strings, C.T.S
4		Type , Implicitly Typed Local Variables
		Conditional Syntax, C# Operator, Looping Syntax,
		Structure
		4. ARRAY & STRING
		Arrays in General, Declaring of different type
		Arrays, Initializing Arrays, Accessing element of
5	23-09-2019 (FN)	different type Array Members, Arrays of Objects,
5		Structure type array, Using for each with Arrays
		,Understanding System. String class and its various
		operations
		5. ADO.NET AND IT'S ARCHITECTURE
		Connection Object, Command Object, Dataset,
_	24-09-2019(FN)	Data Reader Object, Data Adapter Object,
6		Concurrency and the Disconnected Data
		Architecture, Provider
		6. DATA SET
		Creating Tables in Dataset, Data Column, Data
	25-09-2019 (FN)	Row , Data Table ,Updating, Inserting and
7		Modification in Data Table ,Saving Changes into
		Data Base using Command Builder, Working With
		Command and Connection
		Commune and Commodition

8	26-09-2019(FN)	7. CONNECTIONS AND COMMAND OBJECT Connection Object ,Command Object , Execute Non Query ,Execute Scalar
9	26-09-2019 (FN)	8. DATA READER Reading Data in Connected Environment, Moving and Accessing Value of Record, Execute Reader
10	27-09-2019 (FN)	9. INTRODUCTION TO ADO.NET How ADO.NET works and how it differs from ADO? Evolution of ADO to ADO.NET.
11	27-09-2019 (FN)	10. TRANSACTION Introduction of Transaction (ACID), Transaction Class, Method and Property, Commit and Rollback
12	28-09-2019 (FN&AN)	11. UNDERSTANDING PAGE LIFE CYCLE Understanding of Application Life Cycle, Page Life-cycle Stages, Life-cycle Events, Auto event wire up, Tracing and debugging asp.net pages

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 UIS 3 Of UGC 4



# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Date of Introduction of the Course: 03.10.2019

# **B.Tech Computer Science and Engineering**

# Introduction to DOT NET COMPUTER COURSE

S. No	REG.NO	NAME OF THE CANDIDATE
1	U19CB023	ULLI MANIKANTA
2	U19CB024	UMMAGANI VIGNESH
3	U19CB025	UNDAMATLA VENKATA PRASAD
4	U19CB026	UNDELA LEKHANA
5	U19CB027	UNDRA VAMSI KRISHNA
6	U19CB028	S UPENDRA REDDY
7	U19CB029	UPPALA HARSHAVARDHAN SAI
8	U19CB030	UPPALA RAKESH
9	U19CB031	UPPALA SAI PRASAD
10	U19CB032	UPPALAPATI PAVAN KUMAR
11	U19CB033	UPPARI SAI RAHUL
12	U19CB034	UPPU SATHISH
13	U19CB035	UPPUTURI AKANKSHA
14	U19CB036	VADDELLI SRIJA
15	U19CB037	VADDI AKASH
16	U19CB038	VADLA SAI BHARGAVA ACHARI
17	U19CB039	VADLA SHRAVAN KUMAR
18	U19CB040	VADLA VENKAT JAYANTH ACHARI
19	U19CB041	VADLAKONDA SAI KIRAN
20	U19CB042	VADLAMUDI ANIL
21	U19CB043	VADLAMUDI MAHESH
22	U19CB044	VAKKALAGADDA BHARGAVI
23	U19CB045	VALLABHASETTI DURGA KALYAN
24	U19CB046	VALLEPU KISHAN SAI
25	U19CB047	VANKAYALAPATI DIVYA NANDHU
26	U19CB048	VANKAYALAPATI SAI KUMAR
27	U19CB049	VANNEMREDDY DINESH
28	U19CB050	VARDHINENI SAI CHARAN
29	U19CB051	VARIKOLLU TEJASSU
30	U19CB052	VASANTHAN SELVAKUMAR
31	U19CB053	VASIREDDY PRASHANTH
32	U19CB054	VATHSAVAYI SAI CHARAN RAJEEV V
33	U19CB055	VATTE ABHINAV REDDY

34	U19CB056	VATTIKUNTA MAHITHA
35	U19CB057	VEERA BOBBY VELUGUBANTLA
36	U19CB058	VEERAKUMAR A
37	U19CB059	VEERAMALLA ABHINAV RAO
38	U19CB060	VEERANKI KRISHNA SAI
39	U19CB061	VEERANKI S RAMA KRISHNA
40	U19CB062	VEERAREDDYGARI BHARATH SIMHA REDDY
41	U19CB063	VEERASAHITHYAN A
42	U19CB064	VELLANKI VENKATA PHANINDRA
43	U19CB065	VELPULA RISHIKESH
44	U19CB066	VELPURI SUBBARAO
45	U19CB067	VELPURI UPENDRA BABU
46	U19CB068	VELURU NITHISH REDDY
47	U19CB069	VEMAVARAPU SAI RADHESH
48	U19CB070	VEMIREDDY MONIKA
49	U19CB071	VEMIREDDY SAI KRISHNA REDDY
50	U19CB072	VEMIREDDY UPENDRA REDDY
49	U19CB071	VEMIREDDY SAI KRISHNA REDDY

COORDINATOR

Ca. Kampa

HOD

HEAD OF DEFARTMENT
Department of Computer Science & Engg.,
Bharath Institute Of Higher Education & Research
(Declared as Deemed to be University U/S 3 Of UGC Act, 195),
Chennal - 600 073, INDIA

Acad	emic'Year		20									
Term												
Cour	se Number											
Cour	se Title		DOTN	ET COMPU	COMPUTER COURSES							
Num	ber of Cred	its										
Туре	of Course	Regular		Ele	ctive		4	Add-on				
				•								
I.	Informat	ion on the Respo	ndent: (Ti	ick (√) Appro	priately)							
	Percentage of classes attended											
1.			0-40		40-60		60-80		80-100			
	0-20								_			
2.	Number	of hours per wee	k spent or	the course (	Other tha	n lecture	e hours)		0.10			
	0-2		-4		4-6		6-8		8-10			
3.		ion for the course										
		Have done part of			i-ites		- Ye	<i>&gt;</i>				
	(ii)	Has adequate prior	rexposure	to the prerequ	lisites	ourrent s	etudy					
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4.	The expe	ctations for takin	g the cou	rse by the stu	dent are:							
	(a)	Enhance by skill b	ase in the	area of specia	lizations		20					
		Get exposed to a re					yes					
	(c)	Curiosity					no					
		Better Employmen	t Opportu	nity			yes					
	, ,	Complete Course r					yes	1				
	(f)	To Improve CGPA					~ °					
Ahoi	it the Instr	uctor: Informatio	on on the	Respondent:	(Tick (√)	Approp	riately)					
71000				A		В	C	D		E		
1.	Pace of th	e Teaching/lecture	•									
2.					1							
3.	Comment of the Subject Clarity of expression											
4.	Level of preparation			/								
5.	Level of interaction				/							
6.	Accessibility outside the class				1							
7.		ease specify			/							
	,	1					D. Catiofan	tory	E: P	oor		
A: E:	xcellent	B: Very	Good	C: G	ood		D: Satisfac	tor y		1		

HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT

Department Of Computer Science & Engly, Ethnicity of the Adjoint Supplied a Research (Decades to Estated to be University U/S ) Or 66 6 Apr. 1986) Chestina - 667 615 .... Just

Ac	ademic Ye	ar	2019-202	20								
Ter	m											
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Cou	urse Title		DOTNE	ET COMPUTER COURSES								
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	0-2		2-4		4-6		6-8		8-10			
3.	Prepa	ration for the cou				1						
	(i)	Have done part					gi					
	(ii)	Has adequate prior exposure to the prerequisites										
	(iii)	Had to pickup relevant additional topics through concurrent study										
	(iv)	Have no exposu	re to the backg	round materia	al	y ,						
	Tru .	pectations for tal	ing the course	a by the stude	ent are:		•					
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	(c)	Better Employm	ent Opportunit	v			111 3					
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,	D C	the Teaching/loots	ura.	A	-							
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4.	Level of preparation			1	_							
5.		interaction	lees	/		1						
6.		oility outside the c	iass									
7.	Others (	please specify		1								
A: Ex	cellent	B: Vei	ry Good	C: Good	i	D:	Satisfacto	ry	E: Poor	· )		

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Department Of Computer Science & Engg..

Bharath Institute Of Higher Education & Rasearch
(Doclared as Deemed to be University U/S 3 Of UGC Act, 1950)

Chennai - 600 073, INDIA

	emic Year		2019-2020	2019-2020									
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2.		er of hours per w		spent on the course (Other than lecture hours)									
	0-2		2-4		1-6		6-8		8-10				
3.	Prepar	ation for the cou	irse by the stud	ient:									
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	(ii)	Has adequate p	rior exposure to	the prerequis	ites		460						
	(iii)	Had to pickup i	elevant addition	nal topics thro	ugh concur	rent stud	ly (A)	)					
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	(f)	To Improve CG			- G	7							
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7.	Others (	please specify											
A: Excellent B: Very Good C: Good D: Satisfactor					ory	E: Poo	or \						

HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT
Department Of Computer Science & Engg.,
Eharath institute Of Higher Education & Research
(Department as Deamed to be University Use 2 of USO Acc 1955)
Chemail Jam (23, 1955)





CERTIFICATE OF PARTICIPATION



# Mrs. VADDELLI SRIJA

For actively participating in the value added course "DOT NET COMPUTER COURSES "Conducted by School of Computing, BIHER from 19-09-2019 to 28.09.2019

Director

Course Coordinator

Head of the Department

# CERTIFICATE COURSE ON DOTNET COMPUTER COURSE

**Introduction of the Course: 03.10.2019** 



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

# Requisition letter

Date: 1.01.2020

## From

Dr.Kaliyamurthie

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 "Course on Cyber Crime"-Reg

With reference to above subject, I would like to bring to your kind notice that, our department interested to organize value added course "Course on Cyber Crime"-Reg in our campus premises on 8.01.2020, students would be participating in this course. We request you kindly to give permission to organize this event.

Venue: CSE smart class Room

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 & Eng Bharath Institute Of Higher Education & Re (Declared as Deemed to be University U/S 3 Of U

Chennai - 600 073, INDIA

Of Selayur 073.

DEORAN (HINGHRUNG)

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

Selaiyur, Chennai-600 073.



# **CIRCULAR**

04.01.2020

The school of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on Course on Cyber Crime for the benefit of students. This course is scheduled from 08.01.2020 to 22.01.2020 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. C. Nalini	Professor
2	Mr. K. Sivaraman	Assistant Professor

Head of Department

To

Copy to CSE

Copy to IT

HEAD OF DEPARTMENT

Department Of Computer Science & Enng

Bharain chlicth Of Higher Education (Doctared as Deepen to be University U/S J Or July 2

Chennal ENDORS INDIA

# CERTIFICATE COURSE ON CYBER CRIME

Date of Introduction of the Course: 12.02.2020

# **COURSE SYLLABUS**

1. Cyber Forensic and Computer Crimes and types.

Definition of Cyber Crime & Computer related Crimes, Classification & Differentiation between traditional crime and cyber crimes.

- (a) Data Theft
- (b) Hacking
- (c) Spreading Virus & Worms
- (d) Phishing
- (e) Cyber Stalking / Bullying

# 2. Crimes targeting Computers:

- (a) Identity Theft & Impersonation
- (b) Credit card & Online Banking Frauds
- (c) Obscenity, Pornography & Child Pornography
- (d) Cyber Defamation, Defacement,
- (e) Illegal online selling & Gambling
- (f) Denial of Service Attacks
- (g) Cyber terrorism
- (h) Software Piracy & illegal downloading

# 3. Cyber Crimes and prevention

- a) Reason for cyber crime
- b) Cyber Criminal Mode and Manner of Committing Cyber Crime
- 4. Prevention of Cyber Crimes & Frauds Critical analysis & loop holes of The IT Act, 2000
- 5. Cyber Crimes: Freedom of speech in cyber space & human right issues
- 6. Investigation of crime
  - a) Investigation of Cyber Crimes
  - b) Investigation of malicious applications

- 7. Agencies for investigation in India, their powers and their constitution as per Indian Laws
- 8. Search and Seizure Procedures of Digital Evidence
- 9. Securing the Scene, Documenting the Scene, Evidence Collection and Transportation
  - (a) Data Acquisition
  - (b) Data Analysis
  - (c) Reporting

# 10. Digital Forensics

- (a) Computer Forensics
- (b) Mobile Forensics
- (c) Forensic Tools
- (d) Anti Forensics

# 11. International Organizations and Their Roles

- (a) ICANN
- (b) URDP
- (c) WTO and TRIPS
- (d) Interpol & Europol
- (e) Impact of Cyber warfare on Privacy Identity
- (f) Net Neutrality and EU Electronic communication Regulatory framework
- (g) WCAG
- (h) Social Networking sites Vis a Vis Human Right

# 12. Case Laws: Indian & International Cases

# **COURSE OBJECTIVES**

To learn and analyse the cyber crime and related laws under the cyber security. To understand the crime commitment and prevention.

# Specifically, the course has the following objectives:

# Students will learn

- 1. Understand the threats in networks and security concepts.
- 2. Apply authentication applications in different networks.
- 3. Understand security services for email.
- 4. Awareness of firewall and it applications.

K. Sivan

**COURSE COORDINATOR** 

HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT Department Of Computer Science & Engg., Bharain institute Of Higher Education & Research (Dociared as Deemed to be University UIS 3 Of UCC Act, 1909)

Chennai - 600 073, INDIA



# CERTIFICATE COURSE ON CYBER CRIME

Date of Introduction of the Course: 12.02.2020

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	08-01-2020(FN)	Cyber Forensic and Computer Crimes and types.  Definition of Cyber Crime & Computer related Crimes, Classification & Differentiation between traditional crime and cyber crimes.
3	09-01-2020 (FN)	2. Crimes targeting Computers:  Identity Theft & Impersonation, Credit card & Online Banking Frauds, Obscenity, Pornography & Child Pornography, Cyber Defamation, Defacement, Illegal online selling & Gambling, Denial of Service Attacks, Cyber terrorism, Software Piracy & illegal downloading
4	10-01-2020(FN)	3.Cyber Crimes and prevention  To learn about the components that convert a list of data into visual UI elements
5,6	11-01-2020 (FN & AN)	4. Prevention of Cyber Crimes & Frauds Critical analysis & loop holes of The IT Act, 2000  To learn the prevention of cyber Crimes & Frauds Critical analysis
7	13-01-2020 (FN)	5. Cyber Crimes: Freedom of speech in cyber space & human right issues To learn freedom of speech in cyber space & human right issues
8	14-01-2020 (FN)	6. Investigation of crime To understand the investigation of Cyber Crimes and investigation of malicious applications
9	15-01-2020 (FN)	7. Agencies for investigation in India, their powers and their constitution as per Indian Laws
10	16-01-2020 (FN)	8. Search and Seizure Procedures of Digital Evidence To learn search and Seizure Procedures of Digital

		Evidence					
11	17-01-2020 (FN)	9. Securing the Scene, Documenting the Scene, Evidence Collection and Transportation To learn Data Acquisition, Data Analysis and Reporting					
12, 13	18-01-2020 (FN)	10. Digital Forensics To learn Computer Forensics, Mobile Forensics, ForensicTools and					
14	20-01-2020 (AN)	11. International Organizations and Their Roles  (a) ICANN (b) URDP (c) WTO and TRIPS (d) Interpol & Europol (e) Impact of Cyber warfare on Privacy Identity (f) Net Neutrality and EU Electronic communication Regulatory framework (g) WCAG (h) Social Networking sites Vis – a – Vis Humar Right					
15	22-01-2020 (FN)	12 Case Laws: Indian & International Cases					

K. Sivan COURSE COORDINATOR

HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT

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

(Declared as Deemed to be University UIS 3 Of UGC ACL 1935)

Chennal - 500 073, 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**

# Date of Introduction of the Course:12.02.2020

# **B.Tech Computer Science and Engineering**

		Course on Cyber Crime	
S. No	REG.NO	NAME OF THE CANDIDATE	
1	U19CB001	THANNEERU RAM PRIYATHAM CHOWDARY	
2	U19CB002	THARALA PRANAY	_
3	U19CB003	THATIPARTHI PAVAN KALYAN REDDY	_
4	U19CB004	THELLAGORLA RAM GOPI	
5	U19CB005	THELLURI HEMANTH RATNA SAGAR REDDY	
6	U19CB006	THIRUMAL REDDY NITHIN KUMAR REDDY	_
7	U19CB007	THIRUMALAI VASAN R	_
8	U19CB008	THIRUMANI THARUN	_
9	U19CB009	THOKALA SRI RAM CHARAN	_
10	U19CB010	THOTA ANAND	
11	U19CB011	THOTA BHARATH KUMAR	_
12	U19CB012	THOTA DINESH	
13	U19CB013	THOTA HEMANTH	
14	U19CB014	THOTAKURA VEERA SATYA SAI CHANDRA	_
15	U19CB015	THULLURI SAI RAM	_
16	U19CB016	TIKKALA PARTHIV ADITYA	_
17	U19CB017	TIRUMALASETTI PAVAN SAI	_
18	U19CB018	TIRUVEEDULA SATISH	_
19	U19CB019	TOGARANA YASWANTH	_
20	U19CB020	TOKLE PRASAD UDDHAV	_
21	U19CB021	TUMMALA ANJAN MAHESH BABU	
22	U19CB022	TUNGALA TEJOSAI	
23	U19CB023	ULLI MANIKANTA	
24	U19CB024	UMMAGANI VIGNESH	_
25	U19CB025	UNDAMATLA VENKATA PRASAD	
26	U19CB026	UNDELA LEKHANA	_
27	U19CB027	UNDRA VAMSI KRISHNA	
28	U19CB028	S UPENDRA REDDY	_
29	U19CB029	UPPALA HARSHAVARDHAN SAI	_
30	U19CB030	UPPALA RAKESH	_
31	U19CB031	UPPALA SAI PRASAD	

32	U19CB032	UPPALAPATI PAVAN KUMAR
33		UPPARI SAI RAHUL
34	U19CB034	UPPU SATHISH
35	U19CB035	UPPUTURI AKANKSHA
36	U19CB036	VADDELLI SRIJA
37	U19CB037	VADDI AKASII
38	U19CB038	VADLA SAI BHARGAVA ACHARI
39	U19CB039	VADLA SHRAVAN KUMAR
40	U19CB040	VADLA VENKAT JAYANTH ACHARI
41	U19CB041	VADLAKONDA SAI KIRAN
42	U19CB042	VADLAMUDI ANIL
43	U19CB043	VADLAMUDI MAHESH
44	U19CB044	VAKKALAGADDA BHARGAVI
45	U19CB045	VALLABHASETTI DURGA KALYAN
46	U19CB046	VALLEPU KISHAN SAI
47	U19CB047	VANKAYALAPATI DIVYA NANDHU
48	U19CB048	VANKAYALAPATI SAI KUMAR
49	U19CB049	VANNEMREDDY DINESH

K.Siva-COURSE CORDINATOR

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,
Chennal - 600 073, INDIA

Acad	emic Year		20	2019-2020									
Term													
Cours	se Numbe	r											
Cours	se Title		Co	ourse on (	Cyber Crime								
Numb	oer of Cre	dits											
Type	of Course	Reg	gular		Ele	ctive			1	Add-on			
			1										
I.	Inform	ation on	the Responden	t: (Tick (	√) Approp	oriately)							
	n .	6.1											
1.		age of cl	asses attended			10.70	1		(0.90			80-100	
	0-20		20-40			40-60			60-80			30-100	
2.	Numbe	r of hour	rs per week spe	nt on the	course (C	Other tha	n lectur	e hou	rs)				
	0-2		2-4			4-6			6-8			8-10	-
3.	Prepara	ation for	the course by t	he studer	ıt:								
	(i)	Have do	one part of this o	course ear	lier		No						
	(ii)	Has ade	equate prior expe	osure to th	e prerequ	isites	Yes	9					
	(iii)	Had to	pickup relevant	ant additional topics through concurrent study No									
	(iv)	Have no	exposure to the	e backgrou	und materi	ial	C	(es					
4.	The exp	ectation	s for taking the	e course b	y the stud	lent are:	Ţ						
	(a)	Enhanc	e by skill base in	n the area	of special	izations	प	es					
	(b)	Get exp	osed to a releva	nt subject				es.					
	(c)	Curiosi	ty				C	(as					
	(d)	Better E	Employment Op	portunity			C	las					
	(e)	Comple	ete Course requi	rements				les					
	(f)	To Impi	rove CGPA					Ter					
Abou	t the Ins	tructor:	Information or	the Resp	ondent: (	Tick (√)	Approp		y)				
					A		В		C	D			E
1.	Pace of	the Teacl	hing/lecture		·								
2.	Comme	nt of the	Subject										
3.	Clarity	of expres	sion		~	7							
4.		fpreparat											
5.	Level of	finteracti	ion		~		/						
6.	Accessi	bility out	side the class			(							
7.	Others (	please sp	ecify		1								
			D. V C		C. C	od		D. C	adle Co.			TD. P.	
A: Excellent B: Very Good			va	C: Go	000		บ: 8	atisfacto	гу		E: Poor	r	

**HEAD OF THE DEPARTMENT** 

HEAD OF DEPARTMENT

Department 310 and 10 an

Ac	ademic Ye	ear		2019	2020								
Ter													
Coı	urse Numl	ber											
Cou	urse Title			Cou	rse on	Cyber Cr	ime						
Nu	mber of C	redits											
Тур	e of Cour	se	Regular			Elec	ctive			1	Add-on	/	
I.	Inform	nation	on the Res	pondent:	(Tick	(√) Approp	oriately)						
1	Domass	ntana -	f -l										
1.	0-20	ntage o	f classes at										
	0-20			20-40			40-60		6	0-80		80-100	
2.	Numb	er of h	ours per w	eek spent	on the	e course (O	ther tha	n lect	ure hours)	)			
	0-2			2-4			4-6			-8		8-10	
3.	Prepar		for the cou	-									
	(i)		done part						No				
	(ii)					he prerequis			Yes				
	(iii)	Had	to pickup re	elevant add	ditiona	l topics thro	ough con	currer	_	No			
	(iv)	Have	no exposu	re to the ba	ackgro	und materia	al		Yer				
	The ex	pectati	ons for tak	ing the co	ourse l	by the stude	ent are:						
	(a)	Enha	nce by skill	base in th	e area	of specializ	zations	4	es				
	(b)	Get e	xposed to a	relevant s	ubject				v				
	(c)	Curio	sity						Yes				
	(d)	Bette	r Employm	ent Oppor	tunity			(	fu.				
	(e)	Comp	olete Course	requirem	ents				90				
	(f)	To In	prove CGP	Ά					903				
boı	ut the Ins	tructo	: Informat	tion on the	e Resp	ondent: (T	ick (√) A	ppro	priately)				
						A		В	C		D		E
	Pace of	the Tea	ching/lectu	re		V							
	Comme	nt of th	e Subject			/							
	Clarity o	of expr	ession				/	-					
	Level of	prepar	ation			/	-						
	Level of	interac	ction										
	Accessib	oility ou	itside the cl	ass		/							
+	Others (p	olease s	pecify										
Ex	cellent		B: Ver	y Good	/	C: Good	d		D: Satis	factor	y	E: Poor	1

HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT

Department 112 to 15th Studies & Englishment Institution of Location & Cosearch

[Declared as Department of Mark 100 Security 1900 Act, 1900 Charles as Department 1900 Charles as Department 1900 Charles as 1900 Charles

Acad	Academic Year 2019-2020									
Term										
Cour	se Numbe	1								
Cour	se Title		Cours	e on Cy	ber Crime					
Num	ber of Cre	dits								
Type	of Course	Regular			Elective			Add-on	L	
			•							
I.	Informa	ition on the Res	pondent: (	Γick (√).	Appropriat	ely)				
1.	Domont	age of classes at	tonded							
1.	0-20	age of classes at	20-40		40-	50	60-80		80-100	
	0-20		20-40		10.					
2.	Number	r of hours per w	eek spent o	n the co	urse (Other	than lectu	re hours)			
	0-2		2-4		4-6		6-8		8-10	
							•			
3.		tion for the cou								
	(i)	Have done part Has adequate p				Me				
	(ii)	Had to pickup r						١.		
	(iii)	Have no exposu				concurrent	1.	10		
	(iv)	Have no expost	ire to the ba	ckground	material		Yes			
4.	The exp	ectations for ta								
	(a)	Enhance by skil		and the same of th	specialization	ons	yes_			
	(b)	Get exposed to	a relevant si	ubject			Yes			
	(c)	Curiosity					9es			
	(d)	Better Employn					Yes			
	(e)	Complete Cours	se requireme	ents			Yes			
	(f)	To Improve CG					4.			
Abou	t the Inst	ructor: Inform	ation on the	Respon						E
					A	В	С	D		E
1.		he Teaching/lect	ure		-					
2.		nt of the Subject								
3.		f expression								
4.		preparation			_					
5.	Level of	interaction								
6.		ility outside the	class		-					
7.	Others (p	lease specify								
A: Ex	cellent	B: V	ery Good		C: Good		D: Satisfac	tory	E: Po	or

HEAD OF THE DEPARTMENT

Denoting Today

Bharain

Declared at 29



# INSTITUTE OF HIGHER EDUCATION AND RESEARCH 23 harath

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)

# CERTIFICATE OF PARTICIPATION



# Ms. BANDARU RAMESH

For actively participating in the value added course "Statistics with R Specialization "Conducted by School of Computing, BIHER from 07-01-2015 to 19.01.2015

Director

**Course Coordinator** 

X.Siva

Head of the Department

# CERTIFICATE COURSE ON CYBER CRIME

**Introduction of the Course: 12-02-2020** 



Course Coordinator

Head of the Department

HEAD OF DEPARTMENT
Department Of Computer Strends & Engg.,
Rharath institute Of Hydrer E. Hortein & Research
(Declared as Deemed to be University UTS & Of UGC Act, 1890,
Channai - 500 073, INDIA





## ARATH INSTITUTE OF SCIENCE AND TECHNOL No.173, Agharam Road, Selatyur, Chennai , T.N. 600 073

# Requisition Letter

Date: 3.01.2020

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 "Cyber Security And Information Security" -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 "Cyber Security And Information Security" in our campus premises on 10.01.2020, students would be participating in this course. We request you kindly to give permission to organize this event.

Venue: CSE Smart Room

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.

HÓÐ HEAD OF DEPARTMENT

Decartment Of Computer Science & Engg., Bharath Insulate Of Higher Education & Research (Declared as Deemed to be university U/S 3 Of UGC Act, 3 359)

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.





# INSTITUTE OF HIGHER EDUCATION AND RESEARCH



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

## **CIRCULAR**

07.01.2020

The school of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on **Certificate Course of Cyber Security And Information Security** for the benefit of students. This course is scheduled from 10.01.2020 to 23.01.2020 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	Mes C. Nalini	Professor
2	Mr. B. Sridhar	Assistant Professor

To

Copy to CSE

Copy to IT

Head of Department

HEAD OF DEPARTMENT

Department Of Computer Science & Eng.

Bharath Institute Of Higher Education & Research

(Doclared as Deemed to be University UIS 3 Of UGC ASI, Chennal - 603 073, INDIA



# 23 harath STITUTE OF HIGHER EDUCATION AND RESEARCH



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

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

# CERTIFICATE COURSE ON STATISTICS WITH CYBER SECURITY AND INFORMATION SECURITY

Date of Introduction of the Course: 12.02.2020

# **COURSE SYLLABUS**

# 1. Pre-requisites in Information and Network Security

Overview of Networking Concepts: Basics of Communication Systems, Transmission Media Topology and Types of Networks, TCP/IP Protocol Stacks, Wireless Networks, the Internet.

## 2. Information Security Concepts

Background and Current Scenario, Types of Attacks, Goals for Security, E-commerce Security, Computer Forensics, Steganography

# 3. Security Threats and Vulnerabilities

Overview of Security threats, Weak / Strong Passwords and Password Cracking, Insecure Network connections, Malicious Code, Programming Bugs

## 4. Cryptography / Encryption

Introduction to Cryptography / Encryption, Digital Signatures, Public Key infrastructure, Applications of Cryptography, Tools and techniques of Cryptography

## 5. Security Management

Overview of Security Management, Information Classification Process, Security Policy, Risk Management, Security Procedures and Guidelines

## 6. Security Laws and Standards

Security Assurance, Security Laws, IPR, International Standards, Security Audi

## 7. Information and Network Security

Access Control and Intrusion Detection, Intrusion Detection Systems and Intrusion Prevention Systems

# 8. Server Management and Firewalls

User Management, Overview of Firewalls, Types of Firewalls, DMZ and firewall features

# 9. Security for VPN and Next Generation Technologies

VPN Security, Security in Multimedia Networks, Virtualization and Cloud Technology and Security.

# 10. System and Application Security

Security Architectures and Models, Designing Secure Operating Systems, Controls to enforce security services

# 11. System & OS Security

Desktop Security, email security: PGP and SMIME, Web Security: web authentication, SSL and SET OS Security Vulnerabilities, updates and patches, OS integrity checks, Anti-virus software.

## 12. Wireless Networks and Security

Components of wireless networks, Security issues in wireless

# **COURSE OBJECTIVES**

During cyber Security and Information Security course, Students will become familiar with various essential topics like preventing cyber-attacks, browsing securely, Information Security, System & OS Security, Wireless Networks and Security, etc.

# Specifically, the course has the following objectives:

- 1. Understanding Security Threats and Vulnerabilities
- 2. Understanding Cryptography / Encryption
- 3. Know about Security Management Practices and Security Laws and Standards
- 4. Understanding Security for VPN and Next Generation Technologies
- 5. Demonstrate a conceptual understanding of the System and Application Security
- 6. Understanding Wireless Network and Security

COURSE COORDINATOR

HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT
Department of Computer Science & Engg.,
Hearstn Institute Of Higher Education & Resource
(Octobres as Deemed to be University U/S 3 Of UGG Act, 12S)
Chennal - 600 073, INDIA



# Sharath NSTITUTE OF HIGHER EDUCATION AND RESEARCH



# BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY

No.173, Agharam Road, Selaiyur, Chennai , T.N - 600 073.

# CERTIFICATE COURSE ON STATISTICS WITH CYBER SECURITY AND INFORMATION SECURITY

Date of Introduction of the Course: 12.02.2020

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	10.01.2020 (FN)	1. Pre-requisites in Information and Network Security  Overview of Networking Concepts: Basics of Communication Systems, Transmission Media Topology and Types of Networks, TCP/IP Protocol Stacks, Wireless Networks, the Internet.
2	11.01.2020 (FN)	2. Information Security Concepts  Background and Current Scenario, Types of Attacks, Goals for Security, E-commerce Security, Computer Forensics, Steganography
3	13.01.2020 (FN)	3. Security Threats and Vulnerabilities  Overview of Security threats, Weak / Strong Passwords and Password Cracking, Insecure Network connections, Malicious Code, Programming Bugs
4	14.01.2020 (FN)	4. Cryptography / Encryption  Introduction to Cryptography / Encryption, Digital Signatures, Public Key infrastructure, Applications of Cryptography, Tools and techniques of Cryptography
5	15.01.2020 (FN)	5. Security Management  Overview of Security Management, Information Classification Process, Security Policy, Risk Management, Security Procedures and Guidelines

6	16.01.2020 (FN)	6. Security Laws and Standards
		Security Assurance, Security Laws, IPR, International Standards, Security Audi
7	17.01.2020 (FN)	7. Information and Network Security
		Access Control and Intrusion Detection, Intrusion Detection Systems and Intrusion Prevention Systems
8,9	18.01.2020 (FN	8. Server Management and Firewalls
	& AN)	User Management, Overview of Firewalls, Types of Firewalls, DMZ and firewall features
10	20.01.2020 (FN)	9. Security for VPN and Next Generation Technologies  VPN Security, Security in Multimedia Networks, Virtualization and Cloud Technology and Security.
11	21.01.2020 (FN)	10. System and Application Security
		Security Architectures and Models, Designing Secure Operating Systems, Controls to enforce security services
12	22.01.2020 (AN)	11. System & OS Security
	-	Desktop Security, email security: PGP and SMIME, Web Security: web authentication, SSL and SET  OS Security Vulnerabilities, updates and patches, OS
		integrity checks, Anti-virus software.
13	23.01.2020 (FN)	12. Wireless Networks and Security
		Components of wireless networks, Security issues in wireless

HEAD OF THE DEPARTMENT

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Department of Computer Science & Engly,
Pharath Institute of Higher Education & Resource

Pharath Institute of Higher Education & Resource

Chennai - 600 073, INDIA





BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY

# Cyber Security And Information Security Date of Introduction of the Course: 12-02-2020

# School of Computing Registered Students Name List

S.NO	REG.NO	NAME OF THE STUDENT
1	U19CN417	SHANTHOSH KUMAR PANDIAN S
2	U19CN418	SHANTHOSH S
3	U19CN419	R SHARATH KRISHNA
4	U19CN420	SHARMILA B
5	U19CN421	SHEELAM SHASHIDHAR REDDY
6	U19CN422	SHESHAMSETTY VISHNU CHAKRAVARTHI
7	U19CN124	MIDDE SAILAJA
8	U19CN125	MIDDE VENKATA RAKESH
9	U19CN126	MILKURI ABHINAV
10	U19CN127	MODDU VAMSI
11	U19CN128	MODUGULA VAMSI KRISHNA
12	U19CN129	MOGAL JAKEER HUSSAIN
13	U19CN130	MOHAMED AASHIK M S
14	U19CN131	MOHAMED ABDUL SHERIEF S
15	U19CN132	MOHAMMAD RIYAZ
16	U19CN133	MOHAMMAD SAMIUDDIN
17	U19CN134	MOHAMMAD SIRAJUDDIN
18	U19CN135	MOHAMMED MASOOD AHMED
19	U19CN136	MOHAMMED SAMEER
20	U19CN137	MOKKAPATI SAI SANJAY
21	U19CN138	MONDHITHOKA JAYA KUMAR
22	U19CN139	MOODE RAJASEKHAR
23	U19CN140	MOPURI VEERA NARAYANA
24	U19CN141	MOTUPALLI EZRA PRAKASH
25	U19CN142	MOTUPALLY SRIKARA CHARYA

26	U19CN143	MUDDANA VAMSI KRISHNA
27	U19CN153	MUPPALA SIDDARDHA SAI
28	U19CN154	MUPPALLA CHANDRA SEKHAR
29	U19CN155	MUPPU THARUN KUMAR
30	U19CN156	MURARI MADHU
31	U19CN157	MUVVA PRANEETH KUMAR
32	U19CN158	NADIPELLI SRINATH
33	U19CN159	NAGABOINA NARESH
34	U19CN160	NAGAPURI SAI TEJA
35	U19CN161	NAGIREDDY HARINADH REDDY
36	U19CN162	NAGULA ROHITH
37	U19CN163	NAINA MOHAMMED RIFATH K
38	U19CN164	NAKKA SAI CHARAN REDDY
39	U19CN165	NAKKA TEETHU REDDY
40	U19CN166	NALABOLU HARIKA
41	U19CN167	NALAJAM SIREESHA
42	U19CN168	NALLA SANJAY KUMAR
43	U19CN489	TATIPARTHI VENKATA ASHOK REDDY
44	U19CN490	TEJA PALIVELA
45	U19CN491	TEKUMATLA PRAVALLIKA
46	U19CN492	TELAGAMSETTI LAKSHMAN BABU
47	U19CN493	TELUGU UMA MAHESH
48	U19CN494	TELUKUTLA SAMBASIVA RAO
49	U19CN495	THAKKELLAPATI BRAHMENDRA
50	U19CN496	THALLAPALLI RAKESH
51	U19CN498	THANGELLAPALLY VIGNESH
52	U19CN499	THANISH K

R. Swedly COURSE COORDINATOR

HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT

Department Of Computer Science & Engg.

Eharsth institute Of Higher Education & Rescurch

Eharsth institute of Higher Education & Rescurch

(Declared St. Business in the Demails in USS of USC Act, 1956)

Chennal - 600 073, INDIA

Aċ.	ademic Ye	ear	2019-20	20				
Ter	m							
Co	urse Num	ber						
Co	urse Title		Cyber S	Security And In	formation	Security		
Nu	mber of C	redits		,		Security		
Гуј	e of Cour	rse Regular		Electiv	/e		Add-on	
							Add-oil	V
	Inform	mation on the Res	pondent: (Tie	ck (√) Appropri	ately)			
					• /			
	0-20	ntage of classes att						
	0-20		20-40	40	-60	60-80		80-100
	Numb	er of hours per we	ek spent on	the course (Oth	er than loo	turo house)	'	
	0-2		2-4	4-		6-8		0.10
						0-8		8-10
		ration for the cour						
	(i)	Have done part of			Mo			
	(ii)	Has adequate pri			s t	1 10		
	(iii)	Had to pickup re	levant additio	nal topics throug	h concurre	nt study	9人	
	(iv)	Have no exposur	e to the backg	ground material		No		
_	The ev	nectations for tale						
	(a)	pectations for tak						
	(b)	Enhance by skill Get exposed to a			ons	Yes		
	(c)	Curiosity		ect		Yas		
	(d)	Better Employme	nt Onnortuni	<b>.</b>		Yas		
	(e)	Complete Course		500		Yes		
	(f)	To Improve CGPA		· 		Yes		
01	1	tructor: Informati		on and ant. (Ti-1	- (-)	Yes		
_		Tructor. Informati	on on the Ke	A A				
	Pace of	the Teaching/lectur	P.P.		В	С	D	E
		nt of the Subject		<b>/</b>				
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		preparation		V				
		interaction		/				
_		pility outside the cla	ISS					
		please specify						
	5ers ()	ase specify						
Ξx	cellent	B: Very	Good	C: Good		D: Satisfacto	rv	E: Poor

HEAD OF THE DEPARTMENT

\*Dudura, as Deline to the University UrS 1 Of USO Act, 1 Officials - 590 073 IMDIA

Acad	emic Yea	r	2019-20	020							
Term											
Cour	se Numb	er									
Cour	se Title		Cyber	Security And	Informa	tion Se	curity				
Num	ber of Cr	edits		, , , , , , , , , , , , , , , , , , , ,		ition 50	curity				
Type	of Cours	e Regu	lar	Ele	ective			Add an			
								Add-on	~		
1.	Inform	ation on th	e Respondent: (T	ick (√) Appro	priately)						
1.			ses attended								
*.	0-20	tage of clas	20-40								
	0 20		20-40		40-60		60-80		80-100		
2.	Numbe	er of hours	per week spent on	the course (	Other tha	n lectu	re hours)	•			
	0-2		2-4		4-6		6-8		9.10		
_	-						0-8		8-10		
3.			e course by the st								
	(i)		e part of this course			1	Vo				
	(ii)		ate prior exposure				Yes				
	(iii)	Had to pic	kup relevant addit	ional topics th	rough con	current	study [/	01			
	(iv)	Have no e	xposure to the back	kground mater	rial	No					
4.	The ex	pectations 1	or taking the cou	rse by the stu	dent are:						
	(a)		y skill base in the			(1					
	(b)		ed to a relevant sub								
	(c)	Curiosity		Yes .							
	(d)	Better Em	ployment Opportu	pportunity							
	(e)	Complete	Course requiremen	nts			les				
	(f)	To Improv	e CGPA			(	Tes				
Abou	t the Ins	tructor: In	formation on the l	Respondent: (	(Tick (√)	Approp	riately)				
				A		В	С	D		E	
1.		the Teachin		-							
2.		nt of the Su	3								
3.	Clarity	of expressio	n								
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5.		finteraction									
6.		bility outsid		'	0						
7.	Others (	please speci	fy	•							
A: Ex	cellent		B: Very Good	C: Go	od		D: Satisfact	ory	E: Poor		

HEAD OF THE DEPARTMENT

padesvill " J. J. Francisco

Academic Year 2019-2020										
Term										
Cours	e Numbe	r								
Cours	e Title		Cyber	Security Ar	d Informa	tion Se	curity			
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			2-4		4-0		6-8		8-10	
3.	Prepar	ation for the c	ourse by the s	tudent:						
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	(ii)	Has adequate	prior exposure	e to the prerec	quisites	N				
	(iii)	Had to pickup	relevant addi	tional topics t	through con	current	study No	)		
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A: Ex	cellent	B:	Very Good	C: C	Good		D: Satisfact	ory	E: Poor	

HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT

Department Of Computer Science & England

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INSTITUTE OF MIGHER EDUCATION AND RESEARCH



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

# CERTIFICATE OF PARTICIPATION



# Ms. BANDARU RAMESH

For actively participating in the value added course "Cyber Security And Information Security "Conducted by School of Computing, BIHER from 10.01.2020 to 23.01.2020

Head of the Department

Director

**Course Coordinator** 

K Such

# CERTIFICATE COURSE ON STATISTICS WITH CYBER SECURITY AND INFORMATION SECURITY

**Introduction of the Course: 12.02.2020** 



**Course Coordinator** 

R. Siids

Head of the Department

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Chennal - 600 0.73, (b.04) Department C



# INSTITUTE OF HIGHER EDUCATION AND RESEARCH



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

# **Requisition Letter**

Date: 27-01-2020

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 "Soft Computing techniques" -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 "Soft Computing techniques" in our campus premises on 03-02-2020, students would be participating in this course. We request you kindly to give permission to organize this event.

Venue: CSE Smart Room

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

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Selaiyur, Chennai-600 073

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

HQD

HEAD OF DEPARTMENT

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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



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY

No.173, Agharam Road, Selaiyur, Chennai , T.N - 600 073.

## **CIRCULAR**

29-01-2020

The school of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on **Certificate Course of Soft Computing techniques** for the benefit of students. This course is scheduled from 03-02-2020 to 15-02-2020 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	Mr.G. Micheal	Professor
2	Mr.a. Kevithe.	Assistant Professor

To

Copy to CSE

Copy to IT

HEAD OF DEPARTMENT

Head of Department

Department Of Computer Science & Engg.,

Bharath Institute Of Higher Education & Research
(Declared as Decimed to be University U/S 3 Of UGC Act, 1996)

Chennal - 600 073, INDIA







# BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY

# CERTIFICATE COURSE ON STATISTICS WITH SOFT COMPUTING TECHNIQUES

Date of Introduction of the Course: 02-03-2020

# **COURSE SYLLABUS**

# 1. Introduction to Soft Computing

Concept of computing systems, "Soft" computing versus "Hard" computing, Characteristics of Soft computing, Some applications of Soft computing techniques

# 2. Introduction to fuzzy set theory

Probabilistic reasoning, Fuzzy sets, mathematics of fuzzy set theory, operations on fuzzy sets, comparison of fuzzy and crisp set theory.

# 3. Fuzzy logic & Defuzzification techniques

Fuzzy relations, rules, propositions, implications and inferences, Defuzzification techniques, Fuzzy logic controller design, some applications of Fuzzy logic

# 4. Fuzzy mapping

One to one mapping, max-min principle, extension principle, implication rules -implications

# 5. Membership functions

Universe of discourse, mapping inside fuzzy domain, fuzzy membership mapping methods, and application to real world problems.

## 6. Genetic Algorithms

Concept of "Genetics" and "Evolution" and its application to search techniques, GA operators: Encoding, Crossover, Selection, Mutation, etc.

## 7. Artificial Neural Networks

Artificial Neural Networks (ANN) and their biological roots and motivations.

## 8. Biological Neural Networks

Comparison between Artificial and Biological Neural Networks, Applications of Neural network.

# 9. Multi-objective Optimization Problem Solving

Concept of multi-objective optimization problems (MOOPs) and issues of solving them.Multi-Objective Evolutionary Algorithm (MOEA).

# 10. Types of learning

Learning Laws: Hebb's rule, Delta rule, Widrow - Hoff (The Least-Mean-Square) learning rule

# 11. Supervised and unsupervised learning laws

Correlation learning rule, instar and out-star learning rules, Competitive learning, Credit Assignment Problem, Error Correction learning, Memory based learning, Boltzmann learning.

# 12. The Perceptron and its learning law

Classification of linearly separable patterns, Multi-Layer Perceptron, Supervised Learning, Back-Propagation Learning law. Feed forward networks, Recurrent Networks

# **COURSE OBJECTIVES**

This course will cover fundamental concepts used in Soft computing. The concepts of Fuzzy logic (FL) will be covered first, followed by Artificial Neural Networks (ANNs) and optimization techniques using Genetic Algorithm (GA).

# Specifically, the course has the following objectives:

- 1. Understanding fuzzy set theory
- 2. Understanding Fuzzy logic & Defuzzification techniques
- 3. Know about Genetic Algorithms
- 4. Comparison between Artificial and Biological Neural Networks
- 5. Understanding Supervised and unsupervised learning laws

COURSE COORDINATOR

G. Kaitla

HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT
Department Of Coinputer Science & Engg.,
Bharath Institute Of Higher Education & Research
(Declared as Deemed to be University U/S 3 Of UGC Act, 1955)
Channai - 600 073, INDIA



# INSTITUTE OF HIGHER EDUCATION AND RESEARCH



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
No.173, Agharam Road, Selaiyur, Chennai , T.N. - 600 673.

# CERTIFICATE COURSE ON STATISTICS WITH SOFT COMPUTING TECHNIQUES

Date of Introduction of the Course: 02-03-2020

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	TODIC
CLASS	DATE	TOPIC
1	03-02-2020 (FN)	1. Introduction to Soft Computing  Concept of computing systems, "Soft" computing versus "Hard" computing, Characteristics of Soft computing, Some applications of Soft computing techniques
2	04-02-2020 (FN)	2. Introduction to fuzzy set theory
		Probabilistic reasoning, Fuzzy sets, mathematics of fuzzy set theory, operations on fuzzy sets, comparison of fuzzy and crisp set theory.
3	05-02-2020 (FN)	
		3. Fuzzy logic & Defuzzification techniques  Fuzzy relations, rules, propositions, implications and inferences, Defuzzification techniques, Fuzzy logic controller design, some applications of Fuzzy logic
4	06-02-2020 (FN)	4. Fuzzy mapping
		One to one mapping, max-min principle, extension principle, implication rules –implications
6	07-02-2020 (FN)	5. Membership functions
		Universe of discourse, mapping inside fuzzy domain, fuzzy membership mapping methods, and application to real world problems.
7	08-02-2020 (FN	
	& AN)	6. Genetic Algorithms  Concept of "Genetics" and "Evolution" and its application to search techniques, GA operators: Encoding, Crossover, Selection, Mutation, etc.
8	10-02-2020 (FN)	7. Artificial Neural Networks

		Artificial Neural Networks (ANN) and their biological roots and motivations.
10	11-02-2020(FN)	8. Biological Neural Networks  Comparison between Artificial and Biological Neural Networks, Applications of Neural network.
11	12-02-2020 (FN)	9. Multi-objective Optimization Problem Solving  Concept of multi-objective optimization problems (MOOPs) and issues of solving them.Multi- Objective Evolutionary Algorithm (MOEA).
12	13-02-2020 (FN)	10. Types of learning  Learning Laws: Hebb's rule, Delta rule, Widrow - Hoff (The Least-Mean-Square) learning rule
13	14-02-2020 (FN)	11. Supervised and unsupervised learning laws  Correlation learning rule, instar and out-star learning rules, Competitive learning, Credit Assignment Problem, Error Correction learning, Memory based learning, Boltzmann learning.
14	15-02-2020 (FN)	12. The Perceptron and its learning law  Classification of linearly separable patterns, Multi- Layer Perceptron, Supervised Learning, Back- Propagation Learning law. Feed forward networks, Recurrent Networks

G-Kavith

COURSE COORDINATOR

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

# Soft Computing techniques Date of Introduction of the Course: 02-03-2020

# **School of Computing** Registered Students Name List

S.NO	REG.NO	NAME OF THE STUDENT
1	U19CS301	ERAKALA SAI TEJA
2	U19CS302	ERAVENI YASWANTH
3	U19CS303	EERELLA BHANU
4	U19CS304	E ESWAR
5	U19CS305	ETTABONIA AKHIL VARMA
6	U19CS306	FRANCY K
7	U19CS307	GADA SRIMANTH
8	U19CS308	GADDAM GANESH
9	U19CS309	GADDAM RANGA UDAY SUDHEER
10	U19CS310	GADDE PRAVALLIKA
1,1	U19CS311	GADE NIKHIL SAI
12	U19CS312	GADEY YASASWI KAMALA VAISHNAVI
13	U19CS313	GADIRAJU SUMANTH KUMAR VARMA
14	U19CS314	GAJJA ROHAN
15	U19CS315	GAJJALA RAM PRAKASH REDDY
16	U19CS316	GAJULA GOWTHAM
17	U19CS317	GAJULA PAVAN KUMAR
18	U19CS318	GAJULA SRI RANGANATH
19	U19CS319	GALI NAVEEN
20	U19CS320	GALI UMA MAHESWARA REDDY
21	U19CS321	GALLA AJAY KUMAR
22	U19CS322	GANDAVARAPU ROSHAN
23	U19CS323	GANDE KARTHIK RAJ
24	U19CS324	GANDEPALLI THARAKESWARA PRASAD
25	U19CS325	GANDHAM SAISUSHEEL

26	U19CS326	GANDLA HARI CHANDANA
27	U19CS327	GANDLURU BHANU PRAKASH REDDY
28	U19CS328	GANGAVARAPU MAHESH
29	U19CS329	GANGAVARAPU VENKATESH
30	U19CS330	GANGIREDDY ABHISHEK REDDY
31	U19CS331	GANGULA SHASHI KUMAR
32	U19CS332	GANIMINENI YASWANTH
33	U19CS333	GANJANABOINA RAMANJANEYULU
34	U19CS334	GANJI LAKSHMI PRASANNA KUMAR
35	U19CS335	GANJIKUNTA SANTOSH
36	U19CS336	GANTA DEEPAK
37	U19CS337	GARLANKALA VENKATA CHAITANYA
38	U19CS338	GASAGANI NIKITH
39	U19CS339	GATTA VENKATA SAI SIVA KUMAR
40	U19CS340	GAYAM GANESH KRISHNAREDDY
41	U19CS341	GEETA GARPATI
42	U19CS342	GELLE DEEPIKA
43	U19CS343	GEMBALI REVANTH
44	U19CS344	B GIRI
45	U19CS345	GODDINDLA JANARDHAN
46	U19CS346	GOGIREDDY LAKSHMI NARASIMHA REDDY
47	U19CS347	GOGULA ANIL KUMAR
48	U19CS348	GOKUL AJAY C P
49	U19CS349	GOLLA RAMJEE
50	U19CS350	GOLLADI SAI MAHESH VARDHAN
51	U19CS351	GOLLAPALLI VINAY JYOTHI
52	U19CS352	GOLLAPROLU NAGA KOTESWARA RAO
53	U19CS353	GONA VARUN KUMAR REDDY
54	U19CS354	GONDI VEERANJANEYULU
55	U19CS355	GONELA NARESH
56	U19CS356	GONUGUNTLA VAMSI KRISHNA

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 Act, 1956)
Chennal - 600 073, INDIA

Acad	emic Yea	r	2019-2	020								
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Academic Year			2019-20	2019-2020								
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HEAD OF THE DEPARTMENT

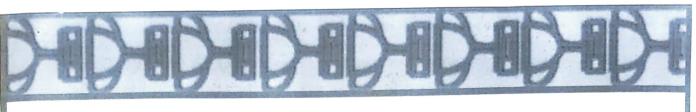
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INSTITUTE OF HIGHER EDUCATION AND RESEARCH

SCIENCE AND TECHNOLOGY No.173, Agharam Road, Setalyur, Chennal , T.M. - 600 073. BELARATH INSTITUTE OF

# CERTIFICATE OF PARTICIPATION

# Mr. GANDHAM SAISUSHEEL

For actively participating in the value added course "Soft Computing techniques "Conducted by School of Computing, BIHER from 03-02-2020 to 15-02-2020

Head of the Department

Director 20

G. Kavith

Course Coordinator

# CERTIFICATE COURSE ON STATISTICS WITH SOFT COMPUTING TECHNIQUES

**Introduction of the Course: 02-03-2020** 



G. Kauil Course Coordinator

Head of the Department

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