

INSTITUTE OF HIGHER EDUCATION AND RESEARCH



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY

Requisition Letter

Date:31.03.2021

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

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

Respected sir

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

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

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

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

HEAD OF DEPARTMENT

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

DEAN ENGINEERING DEAN (Engineering)

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



CIRCULAR

2.04.2021

The school of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on Certificate Course of RECENT TRENDS IN BIG DATA ANALYTICS for the benefit of students. This course is scheduled from 6.04.2021 to 17.04.2021. The timings are 9:30 AM to 12:30 PM (FN) and 1:30 PM to 4:30 PM(AN) and Saturday (FN&AN).

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

Head of Department

To

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 RECENT TRENDS IN BIG DATA ANALYTICS

Date of Introduction of the Course: 9.05.2021

COURSE SYLLABUS

1. Introduction to Big data

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

2. Understanding Big Data Storage

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

3. Introduction to HDFS Architecture

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

4. Map Reduce Programming Model

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

5. Advanced Analytical Theory and Methods

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

6. Overview of Clustering and Classification

Understanding clustering and classification techniques.

7. Association rules

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

8. Introduction to Recommendation system

A recommender system is a type of information filtering system.

9. Introduction to Stream concepts

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

10. NOSQL DATA MANAGEMENT FORBIGDATA

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

11. Visualization

Data visualization is the graphical representation of information and data

COURSE OBJECTIVES

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

Specifically, the course has the following objectives:

Students will learn

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

COURSE COORDINATOR

HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT

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



Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

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

CERTIFICATE COURSE ON RECENT TRENDS IN BIG DATA ANALYTICS

Date of Introduction of the Course: 09.05.2021

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

Time Table & Lesson plan

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

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

HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT
Department Of Computer Science & Engg.,
Bharath Institute Of Higher Education & Research
[Declared as Deemad to be University U/S 3 Of UGC Act, 1956,
Channal -600 073, INDIA



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

RECENT TRENDS IN BIG DATA ANALYTICS

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

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

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

HEAD OF DEPARTMENT

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

Chennal - 600 073, INDIA

COURSE FEEDBACK FORM

	emic Year		2020-2021								
erm											
Cours	se Numbe	Г									
Cour	se Title		Recent Tren	ds In Big Data	Analytics						
Num	ber of Cre	dits					Add-on				
Туре	of Course	Regular		Elective			Aud-on				
I.	Inform	ation on the Respon	ident: (Tick (√) Appropriately)							
1.		Percentage of cl		1 10 10		60-80	1	80-100	~		
	0-20	20)-40	40-60		00-00					
_	Number	er of hours per weel	snent on the	course (Other th	an lecture h	nours)					
2.	0-2	2-		4-6	T	6-8		8-10			
	0-2										
3.	Prepar	ation for the course	e by the studen	ıt:							
	(i)	Have done part of this course earlier									
	(ii) .	Has adequate prior exposure to the prerequisites									
	(iii)	Had to pickup relevant additional topics through concurrent study									
	(iv)	Have no exposure				Yes					
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 subject									
	(c)	Curiosity									
	(d)	Better Employme				Yes					
	(0)	Complete Course requirements									
	(e)	To Improve CGPA									
	(f)	To Improve CGP.	A			9es					
Ab	(f)	To Improve CGP.	A ion on the Res	pondent: (Tick (√) Appropr	iately)			F		
Ab	(f)	To Improve CGP.	A ion on the Res	pondent: (Tick (√) Appropr B	iately)	D		E		
	(f) out the I	nstructor: Informat	ion on the Res	pondent: (Tick (√) Appropr	iately)	D		E		
1.	(f) out the In	nstructor: Informat	ion on the Res		√) Appropr	iately)	D		E		
1.	(f) out the In	of the Teaching/lecturent of the Subject	ion on the Res		√) Appropr	iately)	D		E		
1. 2. 3.	Pace Comm	of the Teaching/lecturent of the Subject	ion on the Res		√) Appropr	iately)	D		E		
1. 2. 3. 4.	Pace Comm	of the Teaching/lecturent of the Subject by of expression of preparation	ion on the Res	~	√) Appropr	iately)	D		E		
1. 2. 3. 4.	Pace Common Clarit Leve	of the Teaching/lecturent of the Subject by of expression of preparation of interaction	ion on the Res		√) Appropr	iately)	D		E		
1. 2. 3. 4.	Pace Comm Clarit Leve Acce	of the Teaching/lecturent of the Subject by of expression of preparation	ion on the Res	~	√) Appropr	iately)	D		E		

HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT

Department Of Computer Science & Engg..

Bharath inclitute Of Higher Education & Rosearch
(Declared as Deemed to be University U/S 3 Of UGC Act, 1956
Chennal - 500 073, INDIA

COURSE FEEDBACK FORM

Acad	lemic Yea	ar	2020-20	021							
Term	1										
Cou	rse Numb	ег									
Cou	rse Title		Recent Trends In Big Data Analytics								
Nun	ber of Cr	redits									
Туре	of Cours	se Regular		Ele	ective			Add-on			
		'									
I.	Inform	nation on the Respo	ondent: (Ti	ick (√) Appro	priately)						
1.											
1.		Percentage of classes attended									
	0-20	2	0-40		40-60		60-80		80-100		
2.	Numbe	er of hours per wee	k spent on	the course (Other ther	lastus	na haussa)				
	0-2		-4	the course (4-6	lectur	6-8				
					4-0		0-8		8-10		
3.	Prepar	ration for the cours	e by the st	udent:							
	(i)	Have done part of	this course	earlier	Ne						
	(ii)	Has adequate prior exposure to the prerequisites									
	(iii)	Had to pickup relevant additional topics through concurrent study									
	(iv)	Have no exposure					les				
4.	TOL	The expectations for taking the course by the student are:									
4.											
	(a)	Enhance by skill base in the area of specializations Get exposed to a relevant subject									
	(b)		elevant sub	oject		Yes					
	(c)	Curiosity				Yes					
	(d)	Better Employmen	-7.45	1000		Yes	_				
	(e)	Complete Course	_	nts		40					
Abar	(f)	To Improve CGPA				Ye	A				
Abot	it the Ins	tructor: Informati	on on the l	Respondent:							
						В	С	D		E	
1.	Pace of	the Teaching/lecture	е						_		
2.	Comme	nment of the Subject							_		
3.	Clarity	of expression			-						
4.	Level o	f preparation		~	-						
5.	Level o	f interaction		~							
6.	Accessi	bility outside the cla	ISS	V							
7.	Others ((please specify		~							
A . F	waallaa t	/		100	, ,			1			
A: E	xcellent	B: Very	Good	C: Go	bod		D: Satisfacto	ory	E: Poor	1	

HEAD OF THE DEPARTMENT HEAD OF DEPARTMENT

Department Of Computer Science & Engg., Etharath Institute Of Higher Education & Research (Declared as Deemed to be University U/S 3 Of UGC Act, 1954, Chennal - 600 073, INDIA

COURSE FEEDBACK FORM

Acad	emic Yea	ır	2020-2	2020-2021							
Term											
Cour	se Numb	ег									
Cour	se Title		Recen	Recent Trends In Big Data Analytics							
Num	ber of Cr	edits									
Туре	of Cours	se Regular			Elective			Add-on	V	/	
I.	Inform	nation on the R	espondent: (T	ick (√)	Appropriate	ely)					
1.		Percentage of classes attended									
	0-20		20-40		40-6	60	60-80		80-100	-	
2	N.		Andrew Commencer Commencer					,,			
2.		er of hours per	_	n the co		than lectu			0.10	T	
	0-2		2-4		4-6		6-8		8-10		
3.	Prepar	ration for the co	ourse by the s	tudent:							
	(i)		rt of this cours				No				
	(ii)	Has adequate	prior exposur	e to the	prerequisites		Yes				
	(iii)										
	(iv)		sure to the ba				No	•			
							140				
4.		rpectations for	7 10			-minestron-					
	(a)		kill base in the		specialization	ons 4	es				
	(b)	-	to a relevant si	ubject		4	les				
	(c)	Curiosity				c	ter				
	(d)		yment Opport			C	tes				
	(e)	Commence of the Commence of th	urse requirem	requirements							
	(f)	To Improve C					d as				
Abo	ut the In	structor: Infor	mation on the	Respon	ndent: (Tick						
						В	С	D		E	
1.	Pace o	f the Teaching/le	ecture								
2.	Comm	ent of the Subje	ct		~						
3.	Clarity	of expression				~					
4.	Level	of preparation			~						
5.	Level	of interaction			V						
6.	Acces	sibility outside the	he class								
7.	Others	(please specify				~					
			1				T				
A: I	Excellent	B	Very Good		C: Good		D: Satisfa	ctory	E: Poo	or	

