



Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

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

Requisition Letter

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).

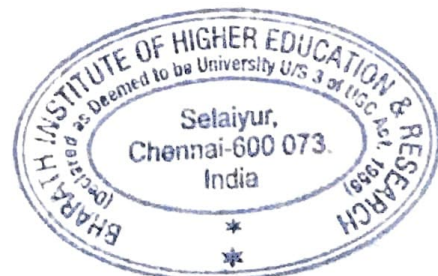
Submitted to Principal for approval to organize this value-added course.

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

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.





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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

Copy to CSE

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



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CERTIFICATE COURSE ON 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. Naive Bayes in R & Data Mining:**
Supervised Learning Methods Naive 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, user-based 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

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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

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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.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

Course Coordinator

HOD

HEAD OF DEPARTMENT

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

Academic Year	2019-2020			
Term				
Course Number				
Course Title	Business Analytics & Data Mining Modeling Using R Part I			
Number of Credits				
Type of Course	Regular	Elective	Add-on	✓

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

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

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

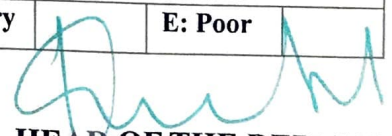
3.	Preparation for the course by the student:		
(i)	Have done part of this course earlier		Yes
(ii)	Has adequate prior exposure to the prerequisites		No
(iii)	Had to pickup relevant additional topics through concurrent study		Yes
(iv)	Have no exposure to the background material		Yes

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

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

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

A: Excellent	✓	B: Very Good		C: Good		D: Satisfactory		E: Poor
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 Chennai - 500 073 INDIA

COURSE FEEDBACK FORM

Academic Year		2019-2020			
Term					
Course Number					
Course Title		Business Analytics & Data Mining Modeling Using R Part I			
Number of Credits					
Type of Course	Regular		Elective		Add-on <input checked="" type="checkbox"/>

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

1. Percentage of classes attended

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

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

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

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

(a)	Enhance by skill base in the area of specializations	Yes
(b)	Get exposed to a relevant subject	No
(c)	Curiosity	No
(d)	Better Employment Opportunity	Yes
(e)	Complete Course requirements	Yes
(f)	To Improve CGPA	No

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

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

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

COURSE FEEDBACK FORM

Academic Year		2019-2020			
Term					
Course Number					
Course Title		Business Analytics & Data Mining Modeling Using R Part I			
Number of Credits					
Type of Course	Regular	Elective	Add-on	<input checked="" type="checkbox"/>	

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

1. Percentage of classes attended

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

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

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

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

(a)	Enhance by skill base in the area of specializations	NO
(b)	Get exposed to a relevant subject	NO
(c)	Curiosity	NO
(d)	Better Employment Opportunity	Yes
(e)	Complete Course requirements	Yes
(f)	To Improve CGPA	NO

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

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

A: Excellent	<input checked="" type="checkbox"/>	B: Very Good		C: Good		D: Satisfactory		E: Poor	
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Bharath UNIVERSITY

பாரத பல்கலைக்கழகம்

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH

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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


Course Coordinator

Head of the Department


Director

Business Analytics & Data Mining Modelling Using R Part I

Introduction of the Course: 26.09.2019



Course Coordinator

Head of the Department

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Department Of Computer Science & Engg.,
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