



Bharath

INSTITUTE 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:25.05.2020

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

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

Respected sir

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

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

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

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

HOD

HEAD OF DEPARTMENT

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

**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.



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CIRCULAR

29.05.2020

The school of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on **Certificate Course of Statistics with R Specialization** for the benefit of students. This course is scheduled from 02.06.2020 to 13.06.2020 which includes theory and practical. The timings are 9:30 AM to 12:30 PM (FN) and 1:30 PM to 4:30 PM(AN) and Saturday (FN&AN).

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

Head of Department

To
Copy to CSE
Copy to IT

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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INSTITUTE OF HIGHER EDUCATION AND RESEARCH
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CERTIFICATE COURSE ON STATISTICS WITH R SPECIALIZATION (ONLINE)

Date of Introduction of the Course: 02.07.2020

COURSE SYLLABUS

1. Introduction of Statistics with R Specialization

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

2. Statistical Inference Fundamentals -1

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

3. Bayesian Statistical Inference Based Decisions

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

4. Statistical Results

Explains the communication of statistical results correctly.

5. Statistical Jargon

Describes effectively, and in context without relying on statistical jargon

6. Data-Based Decisions

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

7. Statistical Data Analysis

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

8. Bayesian Regression

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

9. Perspectives on Bayesian Applications

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

10. Bayesian Comparisons Techniques

Demonstrates Bayesian comparisons of means and proportions.

11. Bayesian regression Techniques

Explains the Bayesian regression and inference using multiple models.

12. Implementation in R Programming

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

COURSE OBJECTIVES

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

Specifically, the course has the following objectives:

Students will learn

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



COURSE COORDINATOR



HEAD OF THE DEPARTMENT

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



Bharath

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

CERTIFICATE COURSE ON STATISTICS WITH R SPECIALIZATION

Date of Introduction of the Course: 02.07.2020

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

Time Table & Lesson plan

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

12	13-06-2020(FN)	11. Bayesian regression Techniques Explains the Bayesian regression and inference using multiple models.
13	13-06-2020(AN)	12. Implementation in R Programming Describes eliciting prior probabilities to implementing in R (free statistical software) the final posterior distribution.



COURSE COORDINATOR



HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT
 Department of Statistics
 Faculty of Science
 King Fahd University of Petroleum & Minerals
 Dhahran, Saudi Arabia 31261
 Phone: +966 13 872 3100
 Fax: +966 13 872 3101
 E-mail: h.d@kfupm.edu.sa



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

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

School of Computing **Registered Students Name List**

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

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


COURSE COORDINATOR


HEAD OF THE DEPAR

HEAD OF DEPARTMENT

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

COURSE FEEDBACK FORM

Academic Year		2020-2021								
Term										
Course Number										
Course Title		Statistics with R Specialization								
Number of Credits										
Type of Course	Regular		Elective		Add-on	<input checked="" type="checkbox"/>				
I. Information on the Respondent: (Tick (✓) Appropriately)										
1. Percentage of classes attended										
0-20		20-40		40-60		60-80	<input checked="" type="checkbox"/>	80-100		
2. Number of hours per week spent on the course (Other than lecture hours)										
0-2		2-4		4-6		6-8		8-10	<input checked="" type="checkbox"/>	
3. Preparation for the course by the student:										
(i)	Have done part of this course earlier						Yes			
(ii)	Has adequate prior exposure to the prerequisites						No			
(iii)	Had to pickup relevant additional topics through concurrent study						No			
(iv)	Have no exposure to the background material						Yes			
4. The expectations for taking the course by the student are:										
(a)	Enhance by skill base in the area of specializations						Yes			
(b)	Get exposed to a relevant subject						Yes			
(c)	Curiosity						Yes			
(d)	Better Employment Opportunity						Yes			
(e)	Complete Course requirements						Yes			
(f)	To Improve CGPA						Yes			
About the Instructor: Information on the Respondent: (Tick (✓) Appropriately)										
		A	B	C	D	E				
1.	Pace of the Teaching/lecture	<input checked="" type="checkbox"/>								
2.	Content of the Subject	<input checked="" type="checkbox"/>								
3.	Clarity of expression		<input checked="" type="checkbox"/>							
4.	Level of preparation	<input checked="" type="checkbox"/>								
5.	Level of interaction		<input checked="" type="checkbox"/>							
6.	Accessibility outside the class	<input checked="" type="checkbox"/>								
7.	Others (please specify)	<input checked="" type="checkbox"/>								
A: Excellent		B: Very Good		<input checked="" type="checkbox"/>	C: Good		D: Satisfactory		E: Poor	

HEAD OF THE DEPARTMENT


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 Department Of Computer Science & Engg.
 Bharath Institute Of Higher Education & Research
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COURSE FEEDBACK FORM

Academic Year		2020-2021			
Term					
Course Number					
Course Title		Statistics with R Specialization			
Number of Credits					
Type of Course	Regular		Elective		Add-on <input checked="" type="checkbox"/>

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

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

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


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 No

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

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

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

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

Academic Year		2020-2021								
Term										
Course Number										
Course Title		Statistics with R Specialization								
Number of Credits										
Type of Course	Regular		Elective		Add-on				<input checked="" type="checkbox"/>	
I. Information on the Respondent: (Tick (✓) Appropriately)										
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0-20		20-40		40-60		60-80		80-100	<input checked="" type="checkbox"/>	
2. Number of hours per week spent on the course (Other than lecture hours)										
0-2		2-4		4-6		6-8		8-10	<input checked="" type="checkbox"/>	
3. Preparation for the course by the student:										
(i)	Have done part of this course earlier								No	
(ii)	Has adequate prior exposure to the prerequisites								Yes	
(iii)	Had to pickup relevant additional topics through concurrent study								No	
(iv)	Have no exposure to the background material								Yes	
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(b)	Get exposed to a relevant subject								Yes	
(c)	Curiosity								Yes	
(d)	Better Employment Opportunity								Yes	
(e)	Complete Course requirements								Yes	
(f)	To Improve CGPA								Yes	
About the Instructor: Information on the Respondent: (Tick (✓) Appropriately)										
		A	B	C	D	E				
1.	Pace of the Teaching/lecture	<input checked="" type="checkbox"/>								
2.	Comment of the Subject	<input checked="" type="checkbox"/>								
3.	Clarity of expression		<input checked="" type="checkbox"/>							
4.	Level of preparation	<input checked="" type="checkbox"/>								
5.	Level of interaction		<input checked="" type="checkbox"/>							
6.	Accessibility outside the class	<input checked="" type="checkbox"/>								
7.	Others (please specify)	<input checked="" type="checkbox"/>								
A: Excellent		B: Very Good		<input checked="" type="checkbox"/>	C: Good		D: Satisfactory		E: Poor	


HEAD OF THE DEPARTMENT

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Department Of Computer Science & Engg.,
Bharath Institute Of Higher Education & Research
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Chennai - 600 074



Bharath UNIVERSITY

பாரத் பல்கலைக்கழகம்

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH

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



CERTIFICATE OF PARTICIPATION



Ms. BANDARU RAMESH

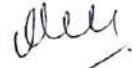
For actively participating in the value added course "**Statistics with R Specialization**" Conducted by School of Computing, BIHER
from 02-06-2020 to 13.06.2020 .



Course Coordinator



Head of the Department



Director