

**Requisition letter** 

Date: 30.08.2019

From

Dr.K.P.Kaliyamurthie,

Professor & Head,

Department of CSE,

Bharath Institute of Higher Education and Research,

Chennai.

То

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.

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 US (Archiversity U/S 3 of US) Selaiyur, Chennai-600 (27) Selaiyur, Chennai-600 (27) Selaiyur, Chennai-600 (27)

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	DX: 1 ALA:	
2	Dr. c. Nalini Ms. h	Professon
	Ma.k. Siyasaman	Assistant professor

Head of Department

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

То

Copy to CSE

Copy to IT



### **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.

### <u>COURSE OBJECTIVES</u>

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).

# <u>Time Table & Lesson plan</u>

CLASS	DATE	TOPIC
1	04-09-2019(FN)	<b>1. Introduction of R Sotfware</b> 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)	<b>3. Class structure</b> 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)	<b>6. R Studio</b> 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)	<ul> <li>9. Introduction and data sets with mostly continuous variables.</li> <li>The course evaluation will be done through a written questionnaire, available at the virtual learning environment.</li> </ul>
10	13-09-2019 (FN)	<b>10. Course evaluation</b> 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
11,12	14-09-2019 (FN)&(AN)	<ul> <li>11. Technology Requirements</li> <li>12. Course Logistics</li> <li>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.</li> </ul>

K. S.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, 1956) Chennal - 600 073. INDIA



		Data Analysis and Decision Making
		mputer Science and Engineering( 2019-2020)
S. No	REG.NO	NAME OF THE CANDIDATE
1	U19CB043	VADLAMUDI MAHESH
2	U19CB044	VAKKALAGADDA BHARGAVI
3	U19CB045	VALLABHASETTI DURGA KALYAN
4	U19CB046	VALLEPU KISHAN SAI
5	U19CB047	VANKAYALAPATI DIVYA NANDHU
6	U19CB048	VANKAYALAPATI SAI KUMAR
7	U19CB049	VANNEMREDDY DINESH
8	U19CB050	VARDHINENI SAI CHARAN
9	U19CB051	VARIKOLLU TEJASSU
10	U19CB052	VASANTHAN SELVAKUMAR
11	U19CB053	VASIREDDY PRASHANTH
12	U19CB054	VATHSAVAYI SAI CHARAN RAJEEV V
13	U19CB055	VATTE ABHINAV REDDY
14	U19CB056	VATTIKUNTA MAHITHA
15	U19CB057	VEERA BOBBY VELUGUBANTLA
16	U19CB058	VEERAKUMAR A
17	U19CB059	VEERAMALLA ABHINAV RAO
18	U19CB060	VEERANKI KRISHNA SAI
19	U19CB061	VEERANKI S RAMA KRISHNA
20	U19CB062	VEERAREDDYGARI BHARATH SIMHA REDDY
21	U19CB063	VEERASAHITHYAN A
22	U19CB064	VELLANKI VENKATA PHANINDRA KUMAR NAIDU
23	U19CB065	VELPULA RISHIKESH
24	U19CB066	VELPURI SUBBARAO
25	U19CB067	VELPURI UPENDRA BABU
26	U19CB068	VELURU NITHISH REDDY
27	U19CB069	VEMAVARAPU SAI RADHESH
28	U19CB070	VEMIREDDY MONIKA
29	U19CB071	VEMIREDDY SAI KRISHNA REDDY
30	U19CB072	VEMIREDDY UPENDRA REDDY

K. Simk Course Coordinator

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

### **COURSE FEEDBACK FORM**

•

Academic	Year		2019-20	)20						
Term								· · · · · · · · · · · · · · · · · · ·		
Course Nu										
Course Tit			Introdu	ction To R	Software					
Number of										
Type of Co	ourse	Regular		E	lective			Add-on	-	
I. Info	ormation	on the Respon	ndent: (Tio	ck (√) Appr	opriately)					
1. Per	entage (	of classes atten	ded							
0-20			-40		40-60		60-80		80-100	
2. Nun	horoft									
	iber of h	ours per week		the course (		ı lectu	re hours)			
0-2		2-4	•		4-6		6-8		8-10	~
3. Prep	aration	for the course	by the stu	dent:						
(i)		e done part of th			No					
(ii)	Has	adequate prior e	exposure to	the prerequ	isites U	es				
(iii)	Had	to pickup releva	ant addition	nal topics the	rough conc	urrent s	study Vol			
(iv)	Have	no exposure to	the backg	round mater	ial No		Jes			
		ons for taking								
(a)		nce by skill bas			izations	Yes				
(b)		xposed to a rele	vant subje	ct yes		(				
(c)	Curio			40						
(d)		· Employment (		y J	yes					
(e)		lete Course req	uirements		yes					
(f)	1	prove CGPA				les				
bout the In	structor	: Information	on the Res	pondent: (]	Fick (√) Ap	propr	iately)			
			1	A	B		С	D		Е
		ching/lecture		~						
		e Subject		-						
	of expre					-				
	f prepara	4				-				
	finteract						~			
		tside the class					1			
Others	please sp	pecify								
Excellent		B: Very Go	od	C: Good	d	E	): Satisfactor	y \	E: Poor	Ν
								HEAD-O	F THE D	EPARTI

Uepariment Of Computer Science & Lngg. Bharath Institute Of Higher Education & Research (Declared as Deemed to be University UIS 3 Of DeC Art 1975) Chennal - 600 073, IND14

# **COURSE FEEDBACK FORM**

.

15		l of interaction ssibility outside	the class			~	~			
4.		of preparation				~	V			
3.		y of expression			~	v	~			
2.		nent of the Subj			~	5				
1.	Pace of	of the Teaching/	lecture		r					
					A	В	C	D		E
Ab		structor: Infor		e Respo	ndent: (Tiel	(1) Annron	yes riately)			
	(f)	To Improve Co		ents		y	es			
	(d) (e)	Better Emplo	urse requirem	•	*	C	jes			
	(c)	Curiosity				ye	8			
	(b)	Get exposed t	o a relevant s	ubject		ye	8			
	(a)	Enhance by sl			specializatio	ons (	yes			
4.		pectations for t								
	(iv)	Have no expos	sure to the ba	ckgroun	d material	yes				
	(iii)	Had to pickup					udy yes	1		
	(ii)	Has adequate j				140	110.1			
		Have done par				No				
	Prepara	tion for the co	urse by the s	tudent:						
	0-2		2-4		4-6		6-8	-	8-10	
		of hours per w		the co	urse (Other	than lecture	hours)	1		
							60-80		80-100	
	0-20	be of classes at	20-40		40-6	0	60.00		00.100	
	Percente	ge of classes at	tondad							
	Informati	ion on the Res	pondent: (Ti	ck (√) A	ppropriate	ly)				
					Liective			Add-on	~	
	Course	Regular			Elective					
	r of Credit	e	Introduc	ction Ic	R Softwa	re				
	Title			·						
	Jumph an									
rse ]	Number		2019-202							

HEAD OF THE DEPARTMENT

## COURSE FEEDBACK FORM

.

demic Year									
n									
rse Number									
rse Title		Introduct	ion To R S	oftware					
nber of Cred	its			,					
e of Course	Regular		Ele	ective			Add-on	~	
		L	1						
Informa	tion on the Respon	ndent: (Tic	k (√) Appro	priately)					
		1	· , · , · ,						
Percenta	ige of classes atten			10 (0		60-80		80-100	
0-20	20	0-40		40-60		00-00	~		
	of hours per wee	k spont on t	the course (	Other th	an lecture	hours)			
		-4	the course (	4-6		6-8	~	8-10	
0-2		-4							
Prenara	tion for the cours	e by the stu	ident:						
(i)	Have done part of				NO				
(i) (ii)	Has adequate prio			quisites		yes			
(1)	This unequale price	1					1		
(:::)	Had to nickun rele	evant additi	onal topics t	through c	oncurrent s	tudy ye	5		
(iii)	Had to pickup rele		onal topics t	hrough c			\$		
(iv)	Have no exposure	e to the back	onal topics t ground mat	through c	No		\$		
(iv)	Have no exposure	e to the back	onal topics t ground mat	tudent ar	N c		\$		
(iv) The exp	Have no exposure	e to the back	onal topics t ground mat	tudent ar	N c		\$		
(iv) The exp (a)	Have no exposure pectations for taki Enhance by skill	e to the back ing the cour base in the a	onal topics t ground mat rse by the st area of spec	tudent ar	N c		\$		
(iv) <b>The exy</b> (a) (b)	Have no exposure	e to the back ing the cour base in the a	onal topics t ground mat rse by the st area of spec	tudent ar	re: s yes ges		۶ 		
(iv) The exp (a) (b) (c)	Have no exposure pectations for taki Enhance by skill Get exposed to a Curiosity	e to the back ing the cour base in the relevant sub	onal topics t ground mat rse by the st area of spec oject	tudent ar	No re: s yes ges yes				
(iv) <b>The exj</b> (a) (b) (c) (d)	Have no exposure pectations for taki Enhance by skill Get exposed to a Curiosity Better Employme	e to the back ing the cour base in the relevant sub ent Opportu	onal topics t aground mat rse by the st area of spec oject nity	tudent ar	re: s yes ges				
(iv) <b>The exj</b> (a) (b) (c) (d) (e) (2)	Have no exposure pectations for taki Enhance by skill Get exposed to a Curiosity Better Employme Complete Course	e to the back ing the cour base in the relevant sub ent Opportu e requirement	onal topics t aground mat rse by the st area of spec oject nity nts	hrough c erial tudent an ialization	No re: s yes ges yes yes yes yes	5 			
(iv) <b>The exj</b> (a) (b) (c) (d) (e) (2)	Have no exposure pectations for taki Enhance by skill Get exposed to a Curiosity Better Employme Complete Course	e to the back ing the cour base in the relevant sub ent Opportu e requirement	onal topics t aground mat rse by the st area of spec oject nity nts	hrough c erial tudent an ialization	No re: s yes ges yes yes yes yes	م الم الم الم الم الم الم الم الم الم ال			
(iv) <b>The exj</b> (a) (b) (c) (d) (e) (2)	Have no exposure pectations for taki Enhance by skill Get exposed to a Curiosity Better Employme Complete Course	e to the back ing the cour base in the relevant sub ent Opportu e requirement	onal topics t aground mat rse by the st area of spec oject nity nts Responden	hrough c erial tudent an ialization	No re: s yes ges yes yes yes yes	5 		D	E
(iv) The exp (a) (b) (c) (d) (c) (d) (e) (f) bout the Inst	Have no exposure pectations for taki Enhance by skill Get exposed to a Curiosity Better Employme Complete Course To Improve CGP structor: Information	e to the back ing the cour base in the relevant sub ent Opportu e requirement PA tion on the	onal topics t aground mat rse by the st area of spect oject nity nts Responden	tudent an ialization	No re: s yes yes yes yes yes (v) Approp	م الم الم الم الم الم الم الم الم الم ال		D	E
(iv) The exp (a) (b) (c) (d) (c) (d) (e) (f) bout the Inse	Have no exposure pectations for taki Enhance by skill Get exposed to a Curiosity Better Employme Complete Course To Improve CGP structor: Information f the Teaching/lecture	e to the back ing the cour base in the relevant sub ent Opportu e requirement PA tion on the	onal topics t aground mat rse by the st area of spec oject nity nts Responden	tudent an ialization	No re: s yes yes yes yes yes ye (v) Approp	م الم الم الم الم الم الم الم الم الم ال		D	E
(iv) The exj (a) (b) (c) (d) (c) (d) (e) (f) bout the Inst . Pace of . Comm	Have no exposure pectations for taki Enhance by skill Get exposed to a Curiosity Better Employme Complete Course To Improve CGP structor: Information f the Teaching/lecture	e to the back ing the cour base in the relevant sub ent Opportu e requirement PA tion on the	onal topics t aground mat rse by the st area of spect oject nity nts Responden	tudent an ialization	No re: s yes yes yes yes yes (v) Approp	م الم الم الم الم الم الم الم الم الم ال		D	E
(iv) The exp (a) (b) (c) (d) (c) (d) (e) (f) bout the Inst Pace of Comm Clarity	Have no exposure pectations for taki Enhance by skill Get exposed to a Curiosity Better Employme Complete Course To Improve CGP structor: Informat f the Teaching/lecturent of the Subject	e to the back ing the cour base in the relevant sub ent Opportu e requirement PA tion on the	onal topics t aground mat rse by the st area of spect oject nity nts Responden	tudent an ialization	No re: s yes yes yes yes yes (v) Approp B	م الم الم الم الم الم الم الم الم الم ال		D	E
(iv) The exp (a) (b) (c) (d) (c) (d) (e) (f) bout the Ins Date of Clarity Level	Have no exposure pectations for taki Enhance by skill Get exposed to a Curiosity Better Employme Complete Course To Improve CGP structor: Information f the Teaching/lecture ent of the Subject of expression of preparation	e to the back ing the cour base in the relevant sub ent Opportu e requirement PA tion on the	onal topics t aground mat rse by the st area of spect oject nity nts Responden	tudent an ialization	No re: s yes yes yes yes yes ye (v) Approp	م الم الم الم الم الم الم الم الم الم ال		D	E
(iv) The exp (a) (b) (c) (d) (c) (d) (e) (f) bout the Ins Descent Comm Clarity Level Level	Have no exposure pectations for taki Enhance by skill Get exposed to a Curiosity Better Employme Complete Course To Improve CGP structor: Informat f the Teaching/lecture of expression of preparation of interaction	e to the back ing the cour base in the a relevant sub ent Opportu e requirement PA tion on the ure	onal topics t aground mat rse by the st area of spect oject nity nts Responden	tudent an ialization	N 0 re: s yoj yos yos yos yos yos yos yos	م الم الم الم الم الم الم الم الم الم ال		D	E
(iv) The exp (a) (b) (c) (d) (c) (d) (e) (f) bout the Inst . Pace of . Comm . Clarity . Level 5. Level	Have no exposure pectations for taki Enhance by skill Get exposed to a Curiosity Better Employme Complete Course To Improve CGP structor: Informat f the Teaching/lecturent of the Subject of expression of preparation of interaction sibility outside the	e to the back ing the cour base in the a relevant sub ent Opportu e requirement PA tion on the ure	onal topics t aground mat rse by the st area of spect oject nity nts Responden	tudent an ialization	No re: s yes yes yes yes yes (v) Approp B	م الم الم الم الم الم الم الم الم الم ال		D	E
(iv) The exp (a) (b) (c) (d) (c) (d) (e) (f) bout the Inst . Pace of . Comm . Clarity . Level 5. Level	Have no exposure pectations for taki Enhance by skill Get exposed to a Curiosity Better Employme Complete Course To Improve CGP structor: Informat f the Teaching/lecture of expression of preparation of interaction	e to the back ing the cour base in the a relevant sub ent Opportu e requirement PA tion on the ure	onal topics t aground mat rse by the st area of spect oject nity nts Responden	tudent an ialization	N 0 re: s yoj yos yos yos yos yos yos yos	s s s s s s s s s s s s s s s s s s s			
(iv) The exp (a) (b) (c) (d) (c) (d) (e) (f) bout the Inst . Pace of . Comm . Clarity . Level 5. Level	Have no exposure pectations for taki Enhance by skill Get exposed to a Curiosity Better Employme Complete Course To Improve CGP structor: Informat f the Teaching/lectu ent of the Subject of expression of preparation of interaction sibility outside the s (please specify	e to the back ing the cour base in the a relevant sub ent Opportu e requirement PA tion on the ure	onal topics t ground mat rse by the st area of spect oject nity nts Responden	tudent an ialization	N 0 re: s yoj yos yos yos yos yos yos yos	م الم الم الم الم الم الم الم الم الم ال			E

Г HEAD OF THE DEPA

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) 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







# **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 (Dcclared as Deemed to be University US 3 Of USC Act, 1956) Chennai - 600,073, INDIA