SN COLLEGE, CHENGANNUR

DEPARTMENT OF MATHEMATICS
2021-2022

Certificate course on
Data Analysis using R software

With

Dr.Preeth M

REGISTER NOW

For registration details contact:
Lekshmi K S

Minutes of the Meeting of Board of Studies

Attendees:-

1. Smt. Shereen K (Principal)

2. Dr. K Sreelatha (Chairman, Board of studies)

3. Dr. Smitha Sasidharan (IQAC Coordinator)

4. Miss.Lekshmi.K.S (Head in Charge , Department of Mathematics)

5. Smt. Kuleena Das (External Member)

Venue: Principal's Chamber

Date&Time:23/06/2021 at 2.00pm

Agenda:

1. Review of Certificate course proposal

Minutes:

1. Reviewed the certificate course proposal submitted by Department of Mathematics.

2. Approved the syllabus and proposal of the certificate course on "Data Analysis using R Software"

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SREE NARAYANA COLLEGE
CHENGANNUR

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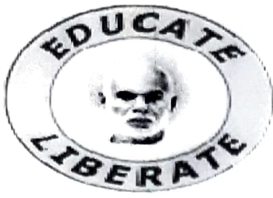**Department of Mathematics**

24/06 /2021

Notice

Department of Mathematics has decided to begin a certificate course in **Certificate Course on Data Analysis using R software**. Those who are interested to join the programme are requested to contact the HOD, Mathematics department.

Lekshmi.K.S

HOD in charge Mathematics

Head of The Department
Department of Mathematics
Sree Narayana College
Chengannur

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Department of Mathematics
TWO MONTH CERTIFICATE COURSE 2021-2022
COURSE CODE AND NAME – MM21RS Certificate Course on Data Analysis using R software

List of members of Board of Studies

Name	Designation	Position held
Miss.Lekshmi.K.S	Guest Faculty	Chairman
Mr.Ajay sasidharan	Guest Faculty	Member
Miss.Sreela S	Guest Faculty	Member
Smt.Jesylin	Guest Faculty	Member

Head of The Department
Department of Mathematics
Sree Narayana College
Chengannur

From

Lekshmi K S

HOD in charge Mathematics

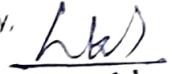Sree Narayana College

Chengannur

To

The Principal

Sree Narayana College

Chengannur

Kindly grant permission to commence certificate course in **Certificate Course on Data Analysis using R software** under the aegis of Mathematics department.

Yours faithfully,

Lekshmi K S

Place : Chengannur

Date : 26/07/2021

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Department of Mathematics
TWO MONTH CERTIFICATE COURSE
COURSE CODE AND NAME – MM21RS Certificate Course on Data Analysis using R software

DURATION -30 Hrs

Learning Objectives: In this course students will learn R. Programming language, data analytics, data visualisation and statistical model for data analytics. By completion of this course, students will be able to become data analyst.

SYLLABUS

MODULE 1(5hr)

Introduction to Data Analysis Overview of Data Analytics, Need of Data Analytics, Nature of Data, Classification of Data: Structured, Semi-Structured, Unstructured, Characteristics of Data, Applications of Data Analytics

MODULE 2(7hr)

R Programming Basics Overview of R programming, Environment setup with R Studio, R Commands, Variables and Data Types, Control Structures, Array, Matrix, Vectors, Factors, Functions, R packages.

MODULE 3(8 hr)

Data Visualization using R Reading and getting data into R (External Data): Using CSV files, XML files, Web Data, JSON files, Databases, Excel files. Working with R Charts and Graphs: Histograms,Boxplots,Bar Charts, Line Graphs, Scatterplots, Pie Charts

MODULE 4(10 hr)

Statistics with R Random Forest, Decision Tree, Normal and Binomial distributions,Time Series Analysis,Linear and Multiple Regression, Logistic Regression, Creating data for analytics through designed experiments,Creating data for analytics through active learning, Creating data for analytics through reinforcement learning

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Upon successful completion of the course, the student will be able to:

CO1: Apply R programming and understand different data sets .

CO2 :Apply R Programme and construct graphs and charts .

CO3 :Analyze the data and know descriptive statistics by using R Programming.

CO4 :Apply R Programming to test the hypothesis of the study.

CO5: Predict the data and take decisions through R programming.

Reference Books:

- An Introduction to R, Notes on R: A Programming Environment for Data Analysis and Graphics. W. N. Venables, D.M. Smith and the R Development Core Team. Version 3.0.1 (2013-05-16). URL: https://cran.r-project.org/doc/manuals/r-release/R-intro.pdf
- 1. Jared P Lander, R for everyone: advanced analytics and graphics, Pearson Education, 2013
- Dunlop, Dorothy D., and Ajit C. Tamhane. Statistics and data analysis: from elementary to intermediate. Prentice Hall, 2000.

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Department of Mathematics
TWO MONTH CERTIFICATE COURSE
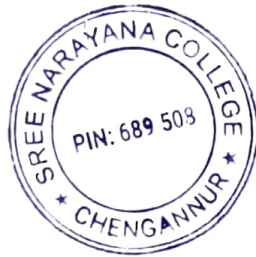COURSE CODE AND NAME – MM21RS Certificate Course on Data Analysis using R software

DURATION -30 Hrs

List of enrolled students

Sl No	Name	Class
1.	AKHILA AJAYAKUMAR	BSc Mathematics
2.	AKSHARA R	BSc Mathematics
3.	ANU MADHU	BSc Chemistry
4.	APARNA J	BSc Mathematics
5.	ARATHY S	BSc Mathematics
6.	ARSHA RAJ	BSc Chemistry
7.	ASHIVA	BSc Chemistry
8.	ASWANI D CHANDRAN	BSc Mathematics
9.	ASWIN S P	BSc Chemistry
10.	ASWIN SIVANDHAN	BSc Chemistry
11.	AVANI KRISHNAN	BSc Mathematics
12.	B.SNEHA	BSc Chemistry
13.	DIVYA VIJAYAN	BA Economics
14.	HARITHA HARIKUMAR	BSc Chemistry
15.	HASHMI HABBIES	BA Economics
16.	RAHUL R	BSc Chemistry
17.	RAHUL.N.R	BSc Chemistry
18.	RASHINA A	BSc Chemistry
19.	SAJAN S LAWRENCE	BSc Mathematics
20.	SIVA KUMAR	BSc Mathematics
21.	SNEHA M	BSc Chemistry
22.	SREERAJ R	BSc Chemistry
23.	SREERAJ S	BSc Chemistry
24.	SUMAYYA J	BSc Chemistry
25.	UNNIMAYA J	BSc Chemistry
26.	VARUN J	BSc Mathematics
27.	VIDHYA VIJAYAN	BSc Mathematics

28.	KARUN.B	BA Economics
29.	MIDHYA.J	BA Economics
30.	RESHMA.S	BA Economics
31.	SHAHANASHAJAHAN	BA Economics
32.	SHINU SEBASTIAN	BA Economics
33.	VIJAY R KRISHNAN	BA Economics
34.	VIJAYALEKSHMI.G	BA Economics
35.	ADVAITH BODHA.P	BA Economics
36.	AJANYA.S	BA Economics
37.	AJITH.A	BA Economics
38.	AKASH.S	BA Economics
39.	AKHIL.A	BA Economics
40.	AKHILA BALAN	BA Economics

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Name of Course: Data analysis using R softw. Teacher(S): Dr. Preed Month (S): August 2021 No. of Instructional Hours: 30 hours

Sl. No.	Name of Student	2/8	4/8	9/8	9/8	11/8	13/8	16/8	18/8	20/8	23/8	25/8	27/8	31/8
		I	I	I	I	II	III	III	V	VI	I	III	V	
1)	Aswin S D	X	X	X	X	X	X	X	X	X	X	X	X	
2)	B. Sneha	X	X	X	X	X	X	X	X	X	X	X	X	
3)	Haritha Harikumar	X	X	X	X	X	X	X	X	X	X	X	X	
4)	Rahul. NR	X	X	X	X	X	X	X	X	X	X	X	X	
5)	Sumayya. J	X	X	a	X	X	X	X	X	X	X	X	X	
6)	Anu. Madhu	X	X	X	X	X	X	X	X	X	X	X	X	
7)	Arsha. Raj	X	X	X	X	X	X	X	X	X	X	X	X	X
8)	Ashina	X	X	X	X	X	a	X	X	X	X	X	X	
9)	Aswin Sivanandan	X	X	X	X	X	a	X	X	X	a	X	X	
10)	Rahul. R	X	X	X	X	X	X	X	X	X	X	X	X	
11)	Rashina. A	X	X	a	X	X	X	X	X	X	a	X	X	
12)	Sneha. M	X	X	X	X	X	X	X	X	X	X	X	X	
13)	Sreeraj. R	X	X	X	X	X	X	a	X	a	X	X	X	
14)	Sreeraj. S	X	X	X	X	X	X	X	X	X	X	X	X	
15)	Unnimaya. J	X	X	X	X	a	X	X	X	X	X	X	X	
16)	Aswani. D. Chintan	X	X	X	X	X	X	X	X	X	X	X	X	
17)	Sajan S Lawrence	X	X	X	X	X	X	X	X	X	X	X	X	
18)	Varun J	X	X	X	X	X	X	X	X	X	X	X	X	
19)	Akhila Ajaykumar	X	X	X	X	X	X	a	a	X	X	X	X	
20)	Akshara. R	X	X	X	X	X	X	X	X	X	a	X	X	
21)	Aparna. J	X	X	X	X	X	X	X	X	X	X	X	X	
22)	Arathy. S	X	X	X	X	X	X	X	X	X	X	X	X	
23)	Avani Krishnan	X	X	X	X	X	X	X	X	X	X	X	X	
24)	Siva Kumar	X	X	X	X	X	X	X	X	X	X	X	X	
25)	Vidhya Vijayan	X	X	X	X	X	X	X	X	X	X	X	X	

Signature of Teacher

Signature of HOD

ATTENDANCE

REGISTER

Name of Course _Data analysis using R software_ Teacher(S) _Dr. Prasad_ Month (S) _August 2021_ No. of Instructional Hours _30 hours_
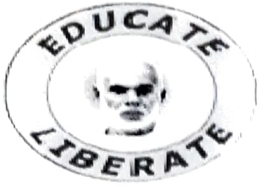
Sl. No.	Name of Student	Date															No. of Days Present
		Hour	I	I	I	I	II	III	IV	V	I	II	V			
৩	Anju B																
26	Divya Vijayan	X	X	X	X	X	X	X	X	X	X	X	X			
27	Hashmi Hannies	X	X	X	X	X	X	X	X	a	a	X	X	X		
28	Karun. B	X	X	X	X	X	X	X	X	X	X	X	X	X		
29	Midhya. J	X	X	X	a	X	X	X	X	X	X	X	X	X		
30	Reshma. S	X	X	X	X	X	X	X	X	X	X	X	X	X		
31	Shahanashbajanan	X	X	X	X	X	a	X	X	X	X	a	X			
32	Shinu Sebastian	X	X	X	X	X	X	X	X	X	X	X	X			
33	Vijay R krishnan	X	X	X	X	X	X	X	X	X	X	X	X			
34	Vijayalekshmi. G	X	X	X	a	X	X	X	X	X	X	X	X			
35	Advaith Bodha. P	X	X	X	X	X	X	X	X	a	X	X	X	X		
36	Ajanya. S	X	X	X	X	X	X	X	X	X	X	X	X			
37	Ajith. A	X	X	X	X	X	X	X	X	a	X	X	X			
38	Akash. S	X	X	X	X	X	X	X	X	X	X	X	X			
39	Akhil. A	X	X	X	a	X	X	X	X	X	X	X	X			
40	Akhila Balan	X	X	X	X	X	X	X	a	X	X	X	X			

Signature of Teacher

Signature of HOD

Department of Mathematics
TWO MONTH CERTIFICATE COURSE

COURSE CODE AND NAME – MM21RS Certificate Course on Data Analysis using R software

DURATION -30 Hrs

LIST OF TEACHERS HANDLING THE COURSE

- Dr.Preeth M (Assistant Professor , Department of Statistics, TKMMM Nagiarkulangara)

Head of The Department
Department of Mathematics
Sree Narayana College
Chengannur

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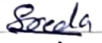Department   of   mathematics
2021 — 22

Title of course

Data analysis using R software
meeting held on: 02/10/2021

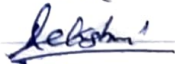Minutes Report

The board of studies has decided to
Publish the result on 08/10/2021

Attendence statement of meeting

Sl No:	Name of faculty	Signature
1)	Miss Lekshmi K·S	Leksha
2)	Miss Sreela·S	Sreela
3)	Mr Ajay Sasidharan	Ajai

For Hod
Lekshmi

Head of The Department
Department of Mathematics
Sree Narayana College
Chengannur

Department of Mathematics
TWO MONTH CERTIFICATE COURSE
COURSE CODE AND NAME – MM21RS Certificate Course on Data Analysis using R software

DURATION -30 Hrs

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Department of Mathematics

Certificate Course Report

TWO MONTH CERTIFICATE COURSE 2021-2022

COURSE CODE AND NAME – MM21RS Certificate Course on Data Analysis using R software

A Meeting was held on 22/07/2021 at 10.30 am in the department of Mathematics to discuss about the commencement of certificate course on Data Analysis using R software.

The members of the board of studies for certificate course were present in the meeting . Chairman : Miss.Lekshmi K S presided by the meeting.All together 40 students applied for the course.The classes were handled by Dr.PreethM , Assistant Professor, Department of Statistics ,TKMM Nagiarkulangara.The class commenced on 2/08/2021.Both theory and practical claases were conducted for this students.

After successfully completing the classes practical exam was conducted on 25/10/2021 from 10.30 am to 12.30 pm ,all the students attended the exam and the pass percentage was 100%.

Thus the certificate course helped students to gain practical knowledge in this field,also this was an added advantage for the students to enhance their skill development as well as their carriculum vitae.

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SREE NARAYANA COLLEGE ,CHENGANNUR

DEPARTMENT OF MATHEMATICS

CERTIFICATE COURSE ON DATA ANALYSIS USING R SOFTWARE

Certificate

This is to certify that...Hazitha Hazikumar...........................has

successfully completed the course conducted by the

Department of Mathematics from August 2021 to

September 2021.

LAKSHMI K S
Head of the Department

Smt.Shereen.K
Principal

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