

**DEPARTMENT OF STATISTICS**

**DEVA MATHA COLLEGE KURAVILANGAD**

**Affiliated to Mahatma Gandhi University, Kottayam**



**REPORT**

**ADD-ON COURSE**

**in**

**Data Analytics Using R**

*Conducted for II PG Students*

**Assessment Year: 2021-22**



Present day researchers in any faculty require comprehensive data analysis to satisfy the objectives meticulously. The Statistics Department of Deva Matha College Kuravilangad has co-ordinated an Add-on Course in Data Analytics Using R for the II PG students of the college.

72 students registered for the course and 71 successfully completed the course. The course was conducted during the months of February and March of 2022. Resource Persons who engaged the classes were distinguished experts in the respective topics. The course is of 30 hours including both Live (L) and recorded (R) sessions along with contact classes (C). The course is planned and executed online via Google Classroom and live sessions are conducted through Google Meet platform. Based on the knowledge derived from the course, the students submitted group projects in which primary data collected through self-prepared questionnaires and analysed using R software.

## **Contents**

1. Syllabus
2. Resource Persons
3. Brochures
4. Photos
5. Feedback on the Course with consolidated average
6. Feedback on Sessions with consolidated average
7. Attendance sheet
8. Examination- Mark list
9. Sample certificates
10. Conclusion



**Deva Matha College, Kuravilangad  
Kottayam, Kerala, 686633**

**ADD ON COURSE  
in  
DMCK/STATS/AD 38/2021: Data Analytics Using R**

**Course Coordinator: Dr. Lishamol Tomy, Associate Professor, Dept. of Statistics**

**Duration: 30 Hours**

**Intake in a batch: 70-80**

R (Free Software) is one of the major software for the statistical analysis of data. Main objectives of this course are:

- To provide basic knowledge in Statistical investigation
- To experience working knowledge in R software with the objective of imparting awareness in data analysis using R
- To get benefitted the students from all streams including Science, Social science, literature, and Commerce and Management disciplines
- To practice the knowledge gained in their necessary project work of Degree Programme

## **SYLLABUS**

### **Module 1: Basic Statistics**

Introduction to Statistics, Statistical Investigation, Scales of measurement, Data Collection, Drafting Questionnaire, Presentation - Charts & Diagrams, Basics of Descriptive Statistics- Central Tendency, Dispersion, Skewness and Kurtosis, Correlation and Regression (5 hours)

### **Module 2: Statistical Analysis Using R-I**

Working knowledge in Excel, Entering Data in Excel, Importing data from Excel worksheet to R, Basics of R and RStudio, Install R and RStudio, Install and import library/packages in R, Data types in R (3 hours)

### **Module 3: Statistical Analysis Using R-II**

Analysis using R - Assessing relationships between continuous variables through plots - Measuring Central Tendency, Dispersion, Skewness and Kurtosis - Assessing relationships between continuous variables through correlation and Regression, Testing of Hypothesis, Case studies in R (7 Hours)



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### **Module 4: Project Work-Report Writing**

Exercising the knowledge acquired by conducting a Project study with primary data collected through questionnaire method, Preparation of Report, Publishing research articles on statistical analysis of primary data (for advanced learners) (15 hours)

#### **Course Outcomes**

- The students will be enabled to undertake data analysis tasks required in preparing project reports and dissertations using statistical techniques.
- The students can undertake research projects, field surveys, data compilation, graphical displays etc.
- The participants are tailored with demands for data analysts in the global analytics market.

#### **Mode of Evaluation**

Attendance, Project Work, and Examination

#### **Advisory Board Members:**

1. Dr. K. K. Jose  
Honorary Director  
School of Mathematics, Statistics, & Data Analytics  
M.G. University, Kottayam
2. Dr. Hareesh N. Ramanathan  
Associate Professor  
School of Industrial Fisheries  
CUSAT, Kochi
3. Dr. Bindu Krishnan  
Professor & Head  
Department of Data Science, CS&IT  
Jain (deemed-to-be) University, Kochi



*Deva Matha College, Kuravilangad  
Kottayam, Kerala, 686633*

## **Resource Persons**

- 1. Dr. K. K. Jose**  
Honorary Director  
School of Mathematics, Statistics, & Data Analytics  
M.G. University, Kottayam  
Live Session: 'Data Analysis - Need of the Hour: An Overview' (1 session of 1.5 hours)
  
- 2. Dr. Hareesh N. Ramanathan**  
Associate Professor  
School of Industrial Fisheries  
CUSAT, Kochi  
Live Sessions: 'Art of Drafting Questionnaire for Primary Data Study' (2 sessions of 1.5 hours)
  
- 3. Dr. Bindu Krishnan**  
Professor & Head  
Department of Data Science, CS&IT  
Jain (deemed-to-be) University, Kochi  
Live Sessions: Statistical Analysis Using R (5 sessions of 1.5 hours)
  
- 4. Dr. Jeena Joseph**  
Assistant Professor  
Department of Statistics  
St. Thomas (Autonomous) College, Thrissur  
Recorded Sessions: Basic Statistics (4 sessions of 1.5 hours)
  
- 5. Ms. Veena G.**  
Research Scholar  
Department of Statistics  
St. Thomas College, Palai  
Recorded Sessions: Statistical Analysis Using R (2 sessions of 1.5 hours)
  
- 6. Dr. Lishamol Tomy**  
Associate Professor  
Department of Statistics  
Deva Matha College, Kuravilangad (9 hours of Contact sessions)



***Deva Matha College, Kuravilangad  
Kottayam, Kerala, 686633***

## **Brochures of Live Sessions**

DEPARTMENT OF STATISTICS  
DEVA MATHA COLLEGE KURAVILANGAD  
Add-On Course on **Data Analytics Using R**

Live session on

**'Art of Drafting Questionnaire for Primary Data Study - Part I'**

Date: 04/02/2022 Friday

Time: 6.00 pm – 7.30 pm



Resource Person:

**Dr. Hareesh N. Ramanathan**

Associate Professor

School of Industrial Fisheries CUSAT, Kochi

DEPARTMENT OF STATISTICS  
DEVA MATHA COLLEGE KURAVILANGAD  
Add-On Course on **Data Analytics Using R**

Live session on

# Art of Drafting Questionnaire for Primary Data Study - Part II

**06/02/2022 Sunday**      **6.00 pm – 7.30 pm**  
Online via *GoogleMeet platform*

## **Resource Person:**

**Dr. Hareesh N. Ramanathan**  
Associate Professor  
School of Industrial Fisheries  
CUSAT, Kochi



Co-ordinator: Dr. Lishamol Tomy



DEPARTMENT OF STATISTICS  
DEVA MATHA COLLEGE KURAVILANGAD  
Add-On Course on **Data Analytics Using R**

Live session on

# Data Analysis- Need of the Hour: An Overview

07/02/2022 Monday 6.00 pm – 7.30 pm

Online via *GoogleMeet platform*

Resource Person:

**Dr. K. K. Jose**

Honorary Director, School of Mathematics, Statistics, & Data Analytics

M.G. University, Kottayam



**DEPARTMENT OF STATISTICS**  
**DEVA MATHA COLLEGE KURAVILANGAD**  
Add-On Course on **Data Analytics Using R**

Live session on

# Statistical Analysis Using R - Part I

08/02/2022 Tuesday      6.00 pm – 7.30 pm

Online via *GoogleMeet platform*

**Resource Person:**

**Dr. Bindu Krishnan**

Professor & Head

Department of Data Science, CS&IT

Jain (deemed-to-be) University, Kochi



**DEPARTMENT OF STATISTICS**  
**DEVA MATHA COLLEGE KURAVILANGAD**  
Add-On Course on **Data Analytics Using R**

Live session on

# Statistical Analysis Using R - Part II

**14/02/2022 Monday**      6.00 pm – 7.30 pm

Online via *GoogleMeet platform*

**Resource Person:**

**Dr. Bindu Krishnan**

Professor & Head

Department of Data Science, CS&IT

Jain (deemed-to-be) University, Kochi

Co-ordinator: Dr. Lishamol Tomy



**DEPARTMENT OF STATISTICS**  
**DEVA MATHA COLLEGE KURAVILANGAD**  
Add-On Course on **Data Analytics Using R**

Live session on

**REPORT WRITING**  
**&**  
**Statistical Analysis Using R - Part III**

**18/02/2022 Friday**      **6.00 pm – 7.30 pm**  
*Online via GoogleMeet platform*

**Resource Person:**

**Dr. Bindu Krishnan**

Professor & Head

Department of Data Science, CS&IT  
Jain (deemed-to-be) University, Kochi



Co-ordinator: Dr. Lishamol Tomy

**DEPARTMENT OF STATISTICS**  
**DEVA MATHA COLLEGE KURAVILANGAD**  
**Add-On Course in Data Analytics Using R**

Live session on

# Statistical Analysis Using R - Part IV

19/02/2022 Saturday      6.00 pm – 7.30 pm  
Online via *GoogleMeet platform*

**Resource Person:**  
**Dr. Bindu Krishnan**

Professor & Head  
Department of Data Science, CS&IT  
Jain (deemed-to-be) University, Kochi



Co-ordinator: Dr. Lishamol Tomy

**DEPARTMENT OF STATISTICS**  
**DEVA MATHA COLLEGE KURAVILANGAD**  
**Add-On Course in Data Analytics Using R**

Live session on

# Statistical Analysis Using R - Part V

**21/02/2022 Monday**      **6.00 pm – 7.30 pm**  
*Online via GoogleMeet platform*

**Resource Person:**

**Dr. Bindu Krishnan**

Professor & Head

Department of Data Science, CS&IT  
Jain (deemed-to-be) University, Kochi

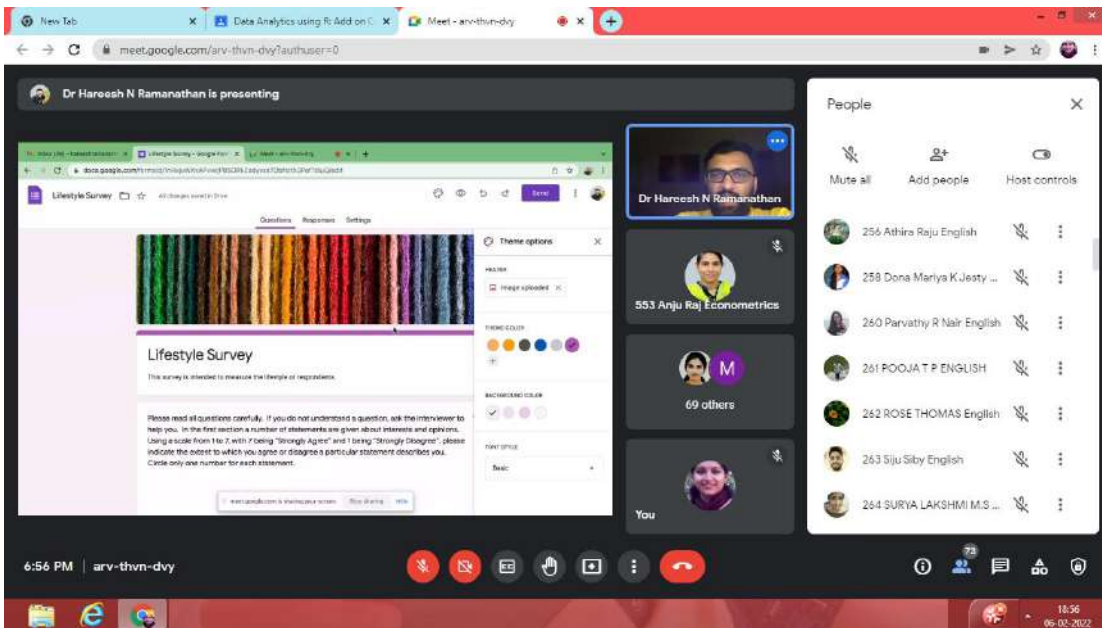


Co-ordinator: Dr. Lishamol Tomy

Add - On Course in  
Data Analytics Using R  
**PHOTOS**



Hareeshsir 04-02-2022

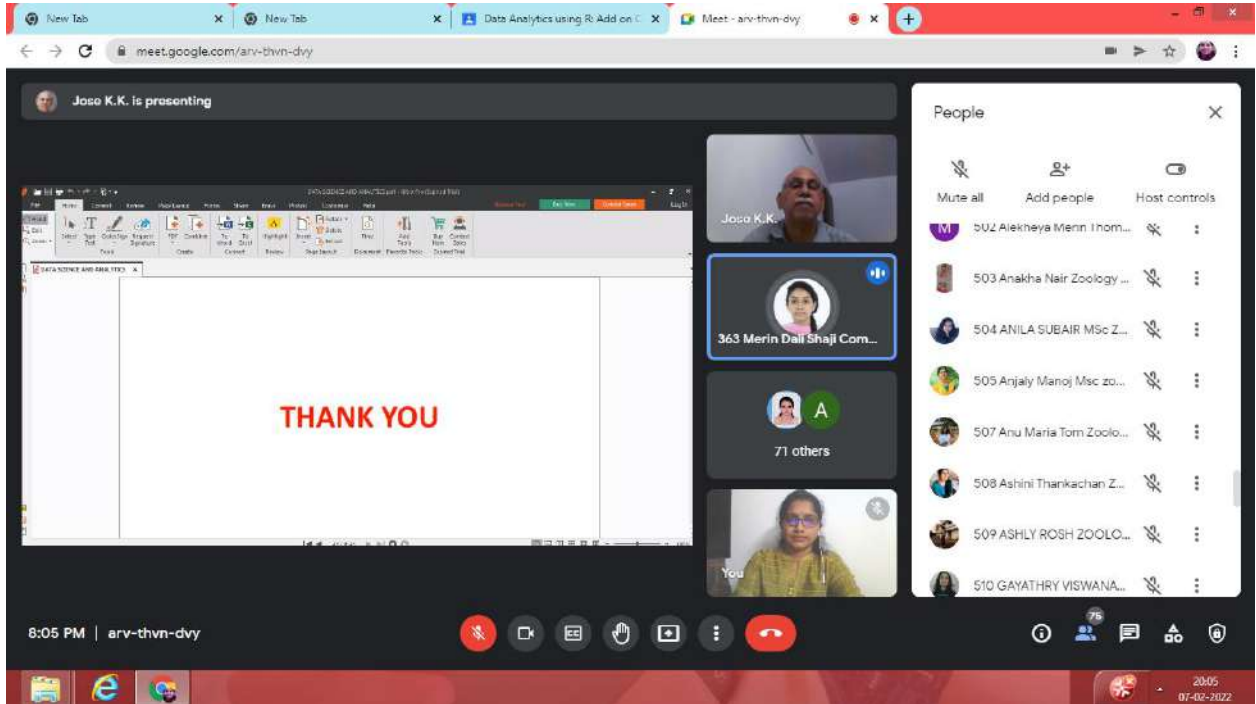


Hareeshsir 06-02-2022

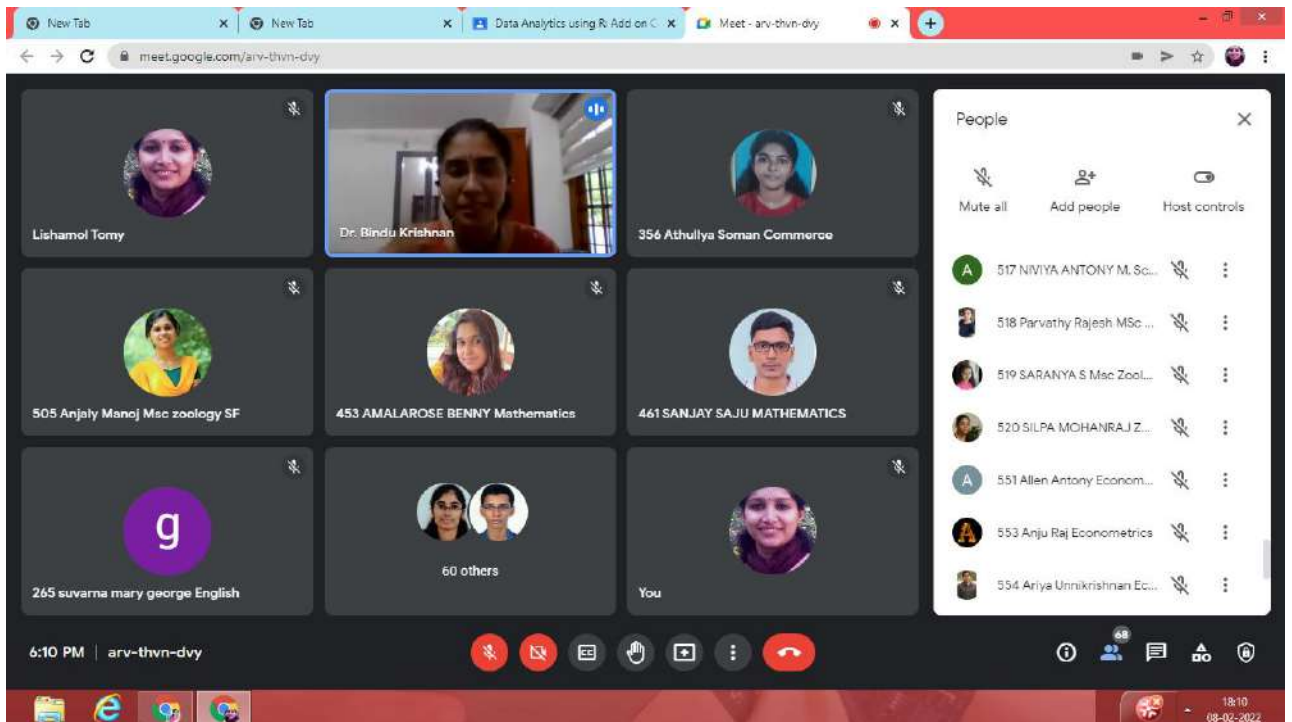




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Josesir 07-02-2022

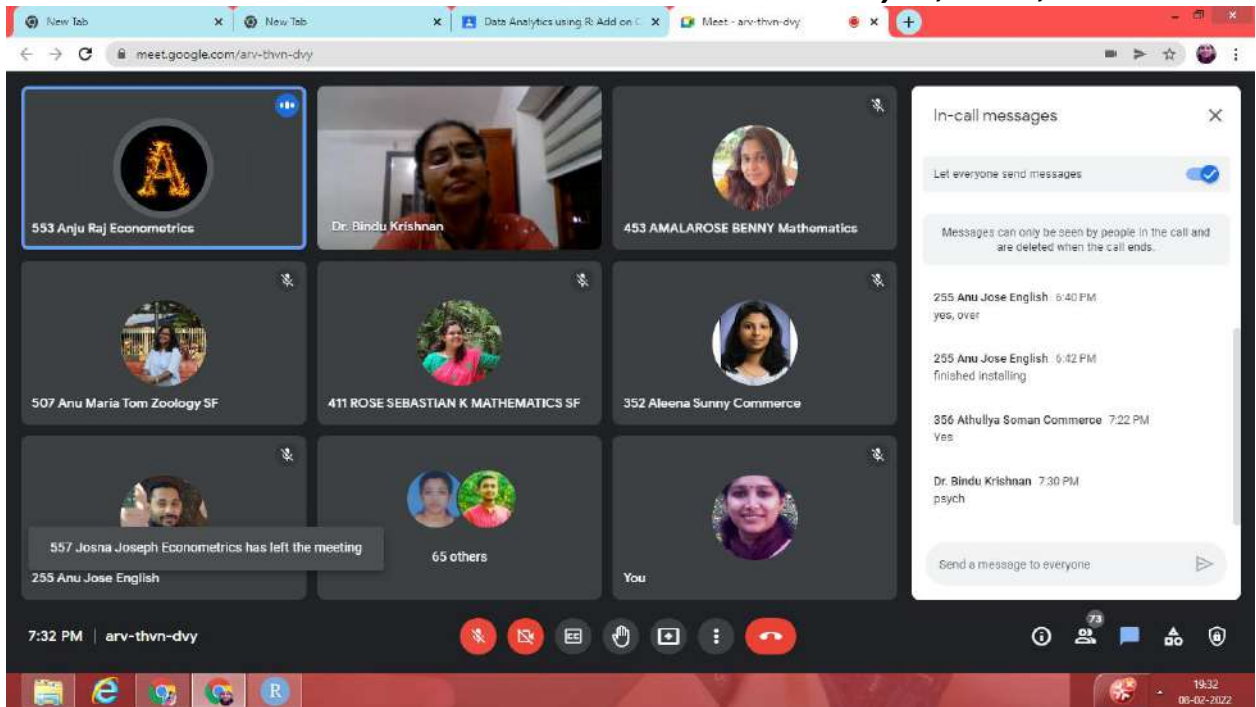


BK1 08-02-2022

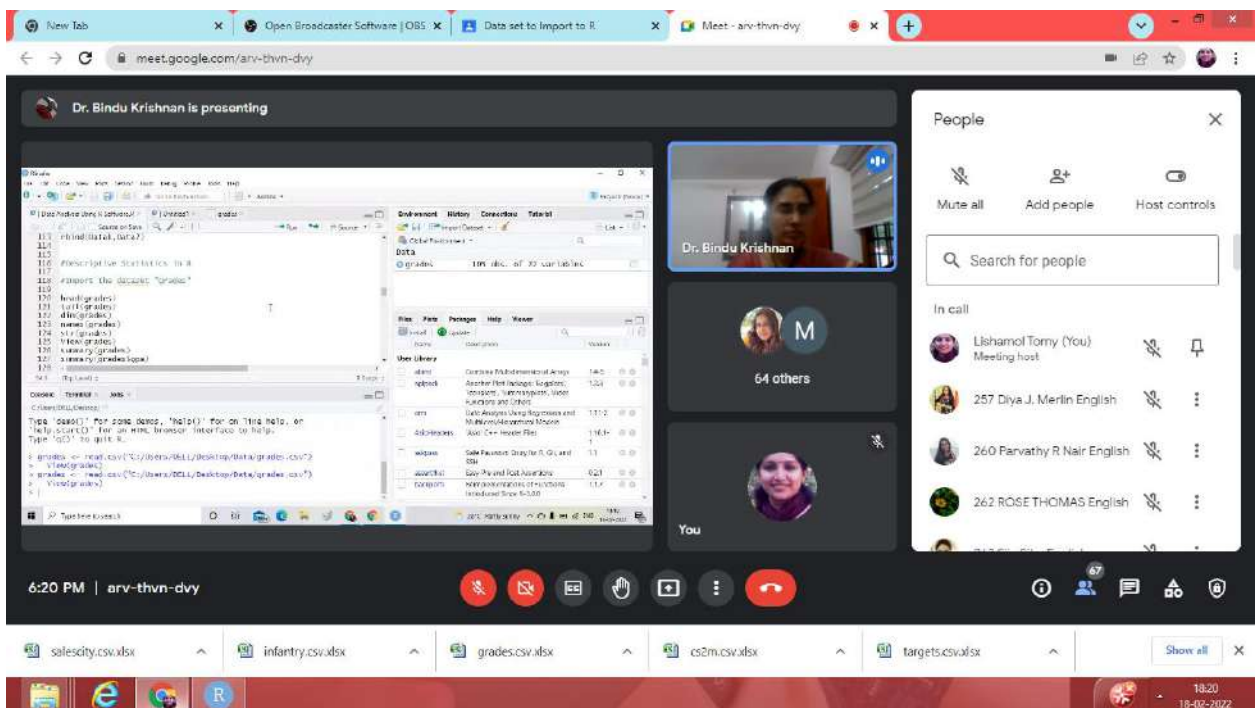




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BK2 14-02-2022



BK3 18-02-2022



**Deva Matha College, Kuravilangad  
Kottayam, Kerala, 686633**

The screenshot shows a Google Meet interface with a presentation slide. The slide content is as follows:

### 2. REVIEW OF LITERATURE

The first statistical modelling in prediction of football scores have come from [Nemoney \(1956\)](#) and [Reep \(1971\)](#) where they used both the Poisson distribution and negative binomial distribution to model the number of goals scored in a football match, based on past team results. However, it was only in 1974 that [Hill](#) proved that match results are not solely based on chance but can be modelled and predicted using past data. [Molloy \(1982\)](#) used Poisson distributions to model home and away team attacking and defensive capabilities, and used this to predict the mean number of goals for each team. [Dixon and Coles \(1997\)](#) created a model capable of outputting probabilities for match results and scores, again following a Poisson distribution. [Forest and Simanun \(2009\)](#) used a classifier model to directly predict the match result instead of predicting the goals scored by each team. [Goodard \(2005\)](#) tried to predict football match results using an ordered regression model, using 15 years of results data as well as the match

BK4 19-02-2022

The screenshot shows a Google Meet interface with an R Studio presentation slide. The slide content is as follows:

```
Environment History Connections Tutorial
Import Dataset
Global Environment:
Data
s1r 12 obs. of 3 variables
File Plot Packages Help Viewer
Zoom Export
Console Terminal Jobs
C:\Users\BELL\Desktop>
> tab2<-tab1e(grades$grade)
> tab2
  A  B  C  D  E
23 32 35  9  6
> s1r <- read.csv("C:/Users/BELL/Desktop/Data/s1r.csv")
> View(s1r)
> |
```

Observation.no	Advt	Sales
1	82	500
2	94	500
3	97	1020
4	95	390
5	100	1100
6	101	1050
7	104	1130
8	105	1120
9	105	1120

BK5 21-02-2022



**DEPARTMENT OF STATISTICS  
DEVA MATHA COLLEGE KURAVILANGAD**

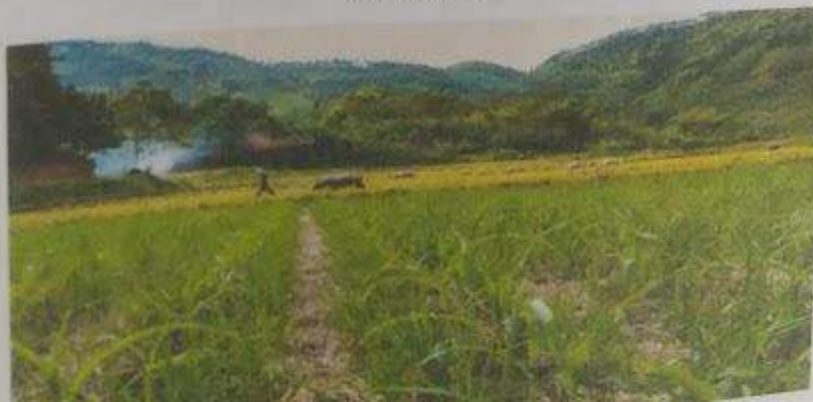
**Perception of Youth towards farming in India**

*Project Report submitted  
In partial fulfillment of the requirements  
for the completion of the Add-On Course in  
**Data Analytics Using R***

By

Juno P Mathew	456	MSc Mathematics
Maria Cyriac	457	MSc Mathematics
Megha Mohanan	458	MSc Mathematics
Naveen Thomas	459	MSc Mathematics

March 2022



## DEPARTMENT OF STATISTICS-ADD ON COURSE DATA ANALYTICS USING R FEEDBACK ON THE COURSE

Timestamp	Name	Class number	How do you rate the course as a whole?	How do you rate the course by the Department of Statistics?	At-least one benefit you received from the course
2-27-2022 19.43.20	Aiswarya sasi	351	3	3	Help to know about R
2-27-2022 13.06.24	Aleena Sunny	352	4	5	To know about the R programming
2-27-2022 13.16.16	Anupama NB	354	4	4	To study R code
2-27-2022 13.51.59	Athira Anna Joseph	355	3	2	It helps to know R programming
2-28-2022 9.16.26	Athullya Soman	356	4	4	Basic information about R
2-27-2022 20.23.18	Gopika vinayan	359	3	4	Improve my knowledge about
2-27-2022 17.26.57	Jeesmaria jolly	360	4	5	Bring the knowledge
3-2-2022 15.35.12	Kuriakose Mathew	361	5	5	I know more about R software
2-27-2022 20.22.45	Maria Varghese	362	4	4	Got a chance to learn r software
2-27-2022 13.34.53	Merin Dali Shaji	363	3	4	Helpful for easy project analysis
2-27-2022 19.29.30	Sreelakshmi k.s	364	2	3	Understand the R course This course helped to learn r
2-27-2022 13.57.33	ANAGHA SURIYA V	401	4	4	programming.
2-27-2022 13.07.58	Ashlymathew	402	3	5	Studied new programming language
3-2-2022 14.06.05	Ashly mathew	402	3	3	Studied new progaramming language Some basic knowledge on R
2-27-2022 17.44.38	CHIPPY JOSE	403	5	5	programming Learned to create google forms as well
2-27-2022 13.14.47	DEVU MURALI	404	5	5	as learn R programming I was able to understand the basics of R
2-27-2022 16.23.32	Dona Mariya Joy	405	4	4	programming.
2-27-2022 17.06.52	Josmin Jose	406	5	5	This course help to learn R programming Understand that how to use R
2-27-2022 13.18.23	Josmymol Joseph	407	5	5	programming So grateful to attend the class of very
2-27-2022 13.09.34	Lakshmi Suryan	408	4	4	high & reputed teachers
2-27-2022 13.29.45	Lakshmpriya	409	5	5	Improved the knowledge in statistics
2-27-2022 13.07.12	NITA THOMAS	410	4	5	Acquire knowledge on data analytics
2-27-2022 17.38.44	ROSE SEBASTIAN K	411	4	5	Got a small knowledge about R
2-27-2022 13.35.49	Sneha Dixon	412	5	4	Learn some codes . Information about data analysis and R
2-27-2022 21.01.21	Deepak J	413	5	5	programing
2-27-2022 16.51.59	Alpha Thomas	452	4	4	Could learn the concept of R
2-27-2022 13.17.51	Amala Rose Benny	453	4	4	R program is very beneficial for us Learn a lot of new applications by this
2-27-2022 15.54.45	Gayathri V	454	4	5	program. Get the opportunity to study one more
2-27-2022 13.13.15	JAINY THOMAS	455	5	5	programming language
2-27-2022 15.16.25	Juno P Mathew	456	4	4	Studied about R programming Was able to learn more about Data
2-27-2022 14.32.30	Maria Cyriac	457	5	5	Analytics using R I was able to learn more about data
2-27-2022 15.59.10	Megha Mohanan	458	5	5	analysis An opportunity to get familiar with a
2-27-2022 16.02.12	Naveen Thomas	459	4	5	programming language.
2-27-2022 15.29.59	S Sreelakshmi	460	3	5	Knowledge about R
2-27-2022 14.12.18	Sanjay saju	461	4	5	Study basics of R
2-27-2022 13.05.59	Shamna Badusha	462	4	4	Got more information about R

2-27-2022 16.04.48 Aleena Emmanuel	501	5	5 Happy First sem we have biostatistics, R software is there in our syllabus to study. This course helped me to know
2-27-2022 13.34.57 Alekheya Merin Thomas	502	5	5 more about R
2-27-2022 16.05.14 Anakha Nair	503	3	Helped me expand my knowledge about 4 statistics and using the R software
2-27-2022 17.17.54 Anila Subair	504	4	5 Got to learn a different and useful course.
2-27-2022 13.12.34 Anjaly Manoj	505	5	5 Additional knowledge Helps to learn a new language that is
2-27-2022 15.33.33 Anjana suresh	506	4	5 very useful
2-27-2022 13.25.30 Anu Maria Tom	507	3	4 Got an opportunity to study under Dr. Bindu Krishnan It help to understand a new programming
3-2-2022 13.28.43 Ashini Thankachan	508	4	4 language
3-4-2022 7.47.14 Ashly	509	4	4 Knowledge Atleast I can understand what is R
2-27-2022 17.59.45 Gayathry Viswanathan	510	2	4 software and some of its uses.
2-27-2022 15.46.26 Jewel S Kumar	511	4	5 Learned how to use R software This course help to know more about
3-3-2022 1.33.04 Jincy M S	512	4	4 data analysis To get knowledge in informatics and data
2-27-2022 13.33.45 Krishnendu. R	513	5	5 analytic using R.
2-27-2022 15.58.44 Lidwin Maria George	514	3	4 Learn about R
2-27-2022 13.35.57 Merlin James	515	4	4 Learn more about topic
3-4-2022 7.51.28 Niviya antony	517	4	5 I got the new method of study in statistics
2-27-2022 13.16.03 Parvathy Rajesh	518	4	4 Get more knowledge about the subject
2-27-2022 13.30.44 Saranya S	519	3	4 Improvement in statistical field
2-27-2022 17.32.12 Ajo joseph	550	4	4 More knowledge about R software
2-27-2022 20.29.30 Allen Antony	551	4	4 This course improves my analytical skills
2-27-2022 13.08.08 Anitta Thomas	552	5	5 Got much more idea about R Getting to know more about R software in
2-27-2022 13.05.21 Anju Raj P	553	5	5 a systematic way
2-27-2022 15.35.33 Ariya Unnikrishnan	554	4	5 Gained more computer knowledge
2-27-2022 17.33.58 Arun thomas	555	5	5 R software
2-27-2022 15.40.40 Athulya K R	556	4	4 It useful to data analysis
2-27-2022 13.07.37 Josna Joseph	557	5	5 Informative
3-3-2022 17.23.51 Meriat joseph	558	3	4 Know more about R
2-27-2022 13.20.56 MERIN PRINCE	559	5	4 Good
2-27-2022 14.43.15 Rejo Raju	560	4	4 R programme studied
2-27-2022 15.35.39 Sneha.P.Saji	563	3	3 This course helps to know more about R.
2-27-2022 16.23.19 Swathy c s	564	4	5 New knowledge about R studio
<b>Average rating</b>	<b>67</b>	<b>4.04477612</b>	<b>4.402985075</b>

**DEPARTMENT OF STATISTICS- ADD ON COURSE IN DATA ANALYTICS USING R**  
**FEEDBACK ON SESSIONS**

Name	Class number	How do you rate the Live sessions on Questionnaire by Dr. Hareesh N Ramanathansir on 4th and 6th of Feb 2022?	How do you rate the Live session on Review of Data Analysis by Prof. Dr. K. K. Josesir on 7th of Feb 2022?	How do you rate the Live sessions on Analytics using R by Dr. Bindu Krishnanmiss on 8th, 14th, 18th, 19th, and 21st of Feb 2022?	How do you rate the Recorded sessions on Basic Statistics by Dr. Jeena Josephmiss?	How do you rate the Recorded sessions on R by Ms. Veena G.miss?
Aiswarya sasi	351	3	2	3	2	3
Aleena Sunny	352	4	3	5	5	5
AMAL P G	353	5	5	4	5	4
Anupama NB	354	4	5	5	4	4
Athira Anna Jos	355	4	5	4	3	3
Athullya Somar	356	4	3	3	4	4
Gopika vinayan	359	4	4	4	4	4
Jeesmaria jolly	360	5	4	5	5	4
Kuriakose Math	361	4	4	5	5	4
MARIA VARGH	362	4	3	5	4	4
Merin Dali Shaj	363	4	4	5	4	4
Sreelakshmi k.s	364	2	3	2	3	2
Teena Tom	366	4	4	4	4	4
ANAGHA SURI	401	4	3	5	4	4
Ashly mathew	402	3	3	3	3	3
CHIPPY JOSE	403	4	4	5	4	4
DEVU MURALI	404	4	3	5	4	4
Dona Mariya Jc	405	5	5	5	5	5
Josmin Jose	406	4	5	5	5	5
Josmymol Jose	407	5	5	5	5	5
Lakshmi Suryai	408	4	5	4	4	4
Lakshmi priya	409	5	5	5	5	5
Nita Thomas	410	4	4	5	4	4
Rose Sebastiar	411	4	3	5	5	5
Sneha Dixon	412	5	4	5	5	5
DEEPAK J	413	5	5	5	5	5
Alpha Thomas	452	4	4	5	4	4
Amala Rose Be	453	4	4	5	5	5
Gayathri V	454	4	5	5	4	3
JAINY THOMA	455	4	4	5	4	5
Juno P Mathew	456	5	4	5	4	4
Maria Cyriac	457	4	4	5	4	4
Naveen Thoma	459	3	4	5	5	4

S SREELAKSH	460	4	3	5	4	4
Sanjay saju	461	3	3	5	4	4
Alekheya Merin	502	4	4	4	4	4
Anakha Nair	503	3	3	4	4	4
Anila Subair	504	3	3	5	4	4
Anjaly Manoj	505	5	5	5	5	5
Anjana suresh	506	4	4	5	5	5
Anu Maria Tom	507	3	1	5	4	4
Ashini Thankac	508	1	4	5	4	4
Ashly	509	4	4	4	4	4
Gayathry Viswa	510	2	3	5	3	4
Jewel S Kumar	511	4	4	5	4	5
Krishnendu. R	513	5	5	5	5	5
Lidwin Maria G	514	3	3	5	4	4
Merlin James	515	4	4	4	5	4
Niviya antony	517	3	3	5	4	4
Parvathy Rajes	518	3	3	4	3	3
Saranya S	519	3	3	5	5	4
Ajo joseph	550	4	4	5	4	4
Allen Antony	551	4	4	4	4	4
Anju Raj P	553	4	4	5	5	5
Ariya Unnikrish	554	3	4	5	4	4
Arun thomas	555	4	4	5	5	5
AthulyaKR	556	4	4	5	5	5
Josna Joseph	557	3	4	5	4	4
Meriat joseph	558	4	4	4	4	4
MERIN PRINCI	559	4	4	4	4	5
Rejo Raju	560	3	4	5	4	4
RESHMA MAR	561	5	4	5	3	4
Sneha.P.Saji	563	2	3	4	2	3
Swathy c s	564	4	4	5	4	4
		244	245	297	267	266
<b>Average Rating</b>		3.8125	3.828125	4.640625	4.171875	4.15625

(Rating Scale 1-,Poor, 5-Excellent)









DEPARTMENT OF STATISTICS, DEVA MATHA COLLEGE KURAVILANGAD  
2021-22

Add - On Course on  
Data Analytics Using R

**EXAMINATION on 27/02/2022 - MARK LIST**

Sl. No.	Name	Class Number	Score
1	Aiswarya sasi	351	24 / 25
2	Aleena Sunny	352	24 / 25
3	AMAL P G	353	21 / 25
4	Anupama NB	354	23 / 25
5	Athira Anna Joseph	355	22 / 25
6	athullya soman	356	23 / 25
7	Bibin pb	357	23 / 25
8	Gopika vinayan	359	24 / 25
9	Jeesmaria jolly	360	17 / 25
10	Kuriakose Mathew	361	20 / 25
11	Maria Varghese	362	23 / 25
12	Merin Dali Shaji	363	23 / 25
13	Sreelakshmi k s	364	22 / 25
14	Teena Tom	366	24 / 25
15	ANAGHA SURIYA V	401	24 / 25
16	Ashly mathew	402	24 / 25
17	CHIPPY JOSE	403	24 / 25
18	DEVU MURALI	404	24 / 25
19	Dona Mariya Joy	405	24 / 25
20	Josmin Jose	406	24 / 25
21	Josmymol Joseph	407	24 / 25
22	Lakshmi Suryan	408	23 / 25
23	Lakshmipriya	409	24 / 25
24	NITA THOMAS	410	24 / 25
25	ROSE SEBASTIAN K	411	23 / 25
26	Sneha Dixon	412	24 / 25
27	DEEPAK J	413	23 / 25
28	Alpha Thomas	452	21 / 25
29	Amala Rose Benny	453	23 / 25
30	Gayathri V	454	12 / 25
31	JAINY THOMAS	455	24 / 25
32	Juno P Mathew	456	24 / 25
33	Maria Cyriac	457	23 / 25
34	Megha Mohanan	458	22 / 25
35	Naveen Thomas	459	23 / 25
36	S SREELAKSHMI	460	23 / 25
37	Sanjay saju	461	22 / 25
38	Shamna Badusha	462	19 / 25
39	Aleena Emmanuel	501	23 / 25
40	Alekheya Merin Thomas	502	23 / 25
41	Anakha Nair	503	24 / 25
42	Anila Subair	504	24 / 25
43	Anjaly Manoj	505	24 / 25
44	Anjana suresh	506	24 / 25
45	Anu Maria Tom	507	24 / 25
46	Ashini Thankachan	508	24 / 25
47	Ashly	509	24 / 25

48	Gayathry Viswanathan	510	24 / 25
49	Jewel S Kumar	511	24 / 25
50	Jincy M S	512	20 / 25
51	Krishnendu. R	513	22 / 25
52	Lidwin Maria George	514	24 / 25
53	Merlin James	515	24 / 25
54	Niviya antony	517	24 / 25
55	Parvathy Rajesh	518	22 / 25
56	Saranya S	519	24 / 25
57	Silpa Mohanraj	520	24 / 25
58	Ajo joseph	550	24 / 25
59	Allen Antony	551	24 / 25
60	Anitta Thomas	552	24 / 25
61	Anju Raj P	553	24 / 25
62	Ariya Unnikrishnan	554	25 / 25
63	Arun thomas	555	25 / 25
64	Athulya K R	556	23 / 25
65	Josna Joseph	557	24 / 25
66	Meriat joseph	558	24 / 25
67	MERIN PRINCE	559	24 / 25
68	Rejo Raju	560	23 / 25
69	Reshma Mariat Babu	561	21 / 25
70	Sneha.P.Saji	563	24 / 25
71	Swathy c s	564	24 / 25



# Deva Matha College Kuravilangad Certificate

THIS IS TO CERTIFY THAT

..... programme has successfully completed the Add-on Course titled **'Data Analytics Using R'** (DMCK/STATS/AD38/2021) conducted by the Department of Statistics of Deva Matha College Kuravilangad during the academic year 2021-22 with .....% attendance and **'A' grade**.

Kuravilangad  
25/03/2022

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**DR. SUNIL C. MATHEW**  
Principal

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**DR. LISHAMOL TOMY**  
Co-ordinator





# Deva Matha College Kuravilangad

## Certificate

THIS IS TO CERTIFY THAT

**DR. LISHAMOL TOMY**

**Associate Professor, Department of Statistics has served as the Co-ordinator of the Add-on Course titled 'Data Analytics Using R' (DMCK/STATS/AD38/2021) organised by the Department of Statistics of Deva Matha College Kuravilangad during the academic year 2021-22.**

Kuravilangad  
25/03/2022

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**DR. SUNIL C. MATHEW**  
Principal

**Department of Statistics  
Deva Matha College Kuravilangad  
2021-22**

**Add on Course in Data Analytics Using R**

## **Conclusion**

The course successfully provided the skill and knowledge to the participants to carry out tasks of data analysis using R. It empowered the participants with the art of drafting questionnaire for primary data study and enabled them to prepare academic reports and research articles. Terminal and final evaluations conducted. Scholars come out with excellent performance. Feedbacks are collected through Google forms. Project reports on selected topics are submitted by the participants as group activity and one among the submitted 16 is identified as the Best Project and rewarded with a cash prize and certificate of merit. Certificates are distributed to the participants eligible as per the mode of evaluation including attendance, examination and project report submission.

**Department of Statistics  
Deva Matha College Kuravilangad  
2021-22**

Add on Course in Data Analytics Using R

## **Conclusion**

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*Principal*  
*Deva Matha College*  
*Kuravilangad - 686 633*