



**St. Joseph's Degree College**  
**Sunkesula Road**  
**Kurnool**

Department of Statistics

**Value Added on course on the basis of**

**“Introduction to R Software”**

Academic Year – (2022-2023)

**I.Kalyani** M.Sc,B.Ed  
Head of Department  
Department of Statistics

## **Value Added Course on – Introduction to R software**

Department of Statistics conducted Value Added Course on – **Introduction to R software** for I year students. It's having been done from 19 June 2023 to 06 July 2023. This course was conducted every day between 3 to 5pm using computer systems. One of our department faculty.

Mr. K. Raveendra has taken the classes.

Lecturers attended:

- 1) I. Kalyani
- 2) K. Raghavendra
- 3) P. Moulali

Total no. of students Participated: 32

## **Course objective**

- Learning the basics of statistical computing and data analysis
- Using R for analytical programming
- Implementing data structure in R
- Understanding R loop functions and debugging tools
- Mastering the use of the R and R Studio interactive environment
- Expanding R by installing R packages.

## Request letter



**DEPARTMENT OF STATISTICS**  
**St. Joseph's Degree College**  
Sunkesula Road, Kurnool-518004.  
[www.sjcknl.edu.in](http://www.sjcknl.edu.in)  
(Affiliated to Rayalaseema University, Kurnool, A.P.)



Date: 18.06.2023

To  
Dr.C.V. Satyanarayana  
Coordinator  
SJCQAC  
St. Joseph's Degree College  
Sunkesula Road, Kurnool-4

Sub: Request to conduct Value added course - Reg.

\* \* \*

Respected Sir,

We, the Department of Statistics, want to conduct value added course on Introduction to R software for first-year students from 19-06-2023 onwards in the afternoon Session. Kindly grant permission.

Kindly Oblige.

Yours Sincerely

*I. Kalyani*

I.Kalyani  
HOD  
Statistics Department  
St. Joseph's Degree College  
Sunkesula Road, Kurnool-4.

# **SYLLABUS**

Value Added course on Introduction to R Software

**Module 1: 4 Hours**

Basic fundamentals, installation and use of software, data editing, use of R as a calculator, functions and assignments, Use of R as a calculator, functions and matrix operations, missing data and logical operators.

**Module 2: 10 Hours**

conditional executions and loops, data management with sequences, Data management with repeats, sorting, ordering, and lists, Vector indexing, factors, Data management with strings, display and formatting.

**Module 3: 4 Hours**

Data management with display paste, split, find and replacement, manipulations with alphabets, evaluation of strings, data frames.

**Module 4: 12 Hours**

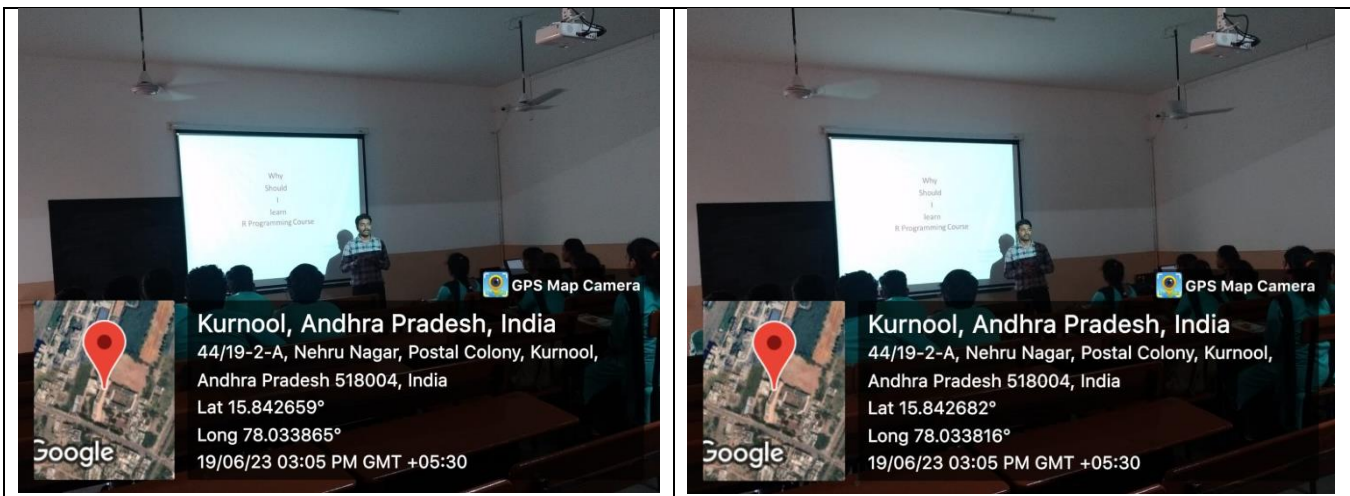
Data frames, import of external data in various file formats, statistical functions, compilation of data. Graphics and plots, statistical functions for central tendency, variation, skewness and kurtosis, handling of bivariate data through graphics, correlations, programming and illustration with examples.

# ATTENDANCE

## Attendance of Value added Course – Introduction to R Software

S.no	Name of the Student	19/06	20/06	21/06	22/06	23/06	24/06	26/06	27/06	28/06	30/06	01/07	03/07	04/07	05/07	06/07
1	Shaik Rizwana	a	x	a	x	X	x	X	X	x	A	X	X	X	X	X
2	K Mounika	x	x	x	x	X	x	X	X	x	A	X	X	X	a	X
3	J Hari Priya	x	x	x	X	X	a	X	X	x	X	X	X	X	X	x
4	M Lalitha Sri	x	x	x	X	X	x	X	X	x	X	X	X	X	X	X
5	P Krishnaveni	x	x	x	X	X	x	X	X	x	A	x	X	X	X	X
6	K Indu	a	x	x	X	X	x	X	X	x	a	X	X	a	X	X
7	Shaik Hamiya	x	x	x	x	X	x	X	X	a	a	X	X	X	X	X
8	U Yashaswini	x	x	x	X	X	x	X	X	x	X	X	A	X	X	X
9	K Sruti	x	x	a	X	X	x	X	X	a	X	X	X	X	X	X
10	S Keerthi Reddy	x	x	a	X	X	x	X	X	x	X	X	X	X	X	x
11	V Sri Harshini	a	a	a	X	X	x	X	X	x	X	X	X	X	X	
12	B Shainaj Begum	a	a	x	X	X	x	X	X	x	X	X	X	X	X	X
13	D Srividya	a	x	x	x	X	a	A	X	x	a	A	X	X	X	X
14	G Navya	x	x	x	x	X	x	X	X	x	X	x	X	X	X	X
15	A Meghana	x	X	a	a	X	x	x	x	x	A	x	X	X	X	X
16	B Jahnvi	x	x	a	a	x	x	x	x	x	X	X	X	X	X	X
17	B Vamsi	a	a	a	a	X	x	A	X	x	X	X	X	X	X	X
18	O Jagadeesh	x	x	x	A	X	x	X	X	x	X	X	X	X	a	X
19	N Vineeth	x	x	x	X	X	x	X	X	x	X	X	X	X	X	X
20	C Kalyan kumar	x	x	A	X	X	a	A	X	x	x	x	X	X	X	X
21	K Narasimha	a	X	x	X	x	x	X	X	x	a	X	X	X	X	X
22	S Immanuel	x	a	X	x	X	x	X	X	x	a	X	X	X	X	X
23	P Dhanush	a	x	x	x	X	x	A	X	x	X	X	X	X	X	X
24	E Vinay Kumar	x	a	x	X	X	a	X	X	x	a	X	X	X	X	X
25	K.P.Ashok	x	x	x	A	X	x	X	X	x	X	A	X	a	X	X
26	Abdul Hussain	a	x	x	A	X	x	X	A	a	a	A	X	X	X	X
27	Shabber	x	x	x	X	X	A	x	A	x	a	A	X	X	X	X
28	B Harish Singh	x	x	a	A	X	a	A	X	x	a	A	X	X	X	X
29	G Shoaib	x	x	x	X	X	x	X	X	x	a	X	X	X	X	X
30	B Jagadeesh	a	a	a	x	X	x	A	X	x	x	X	X	X	X	x
31	Somnadh	a	x	x	X	X	x	A	X	x	X	X	X	X	X	X
32	V Yella Krishna	x	x	x	X	x	x	X	X	x	X	X	X	X	X	X

## Program photos



## TEST- QUESTION PAPER

**Link:** : <https://forms.gle/16GNcAbDEdxCz456>

Questions Responses Settings Total points: 125

which one of the following is the correct output of the command  
seq(to=100,length=8)?

30 40 50 60 70 80 90 100

93 94 95 96 97 98 99 100

100 99 98 97 96 95 94 93

101 102 103 104 105 106 107 108

...

which one of the following is the correct output of the command  
letter[1:3]

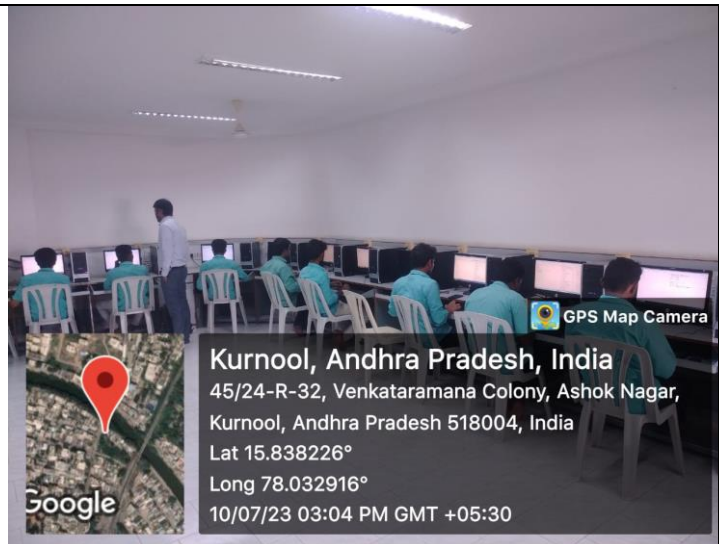
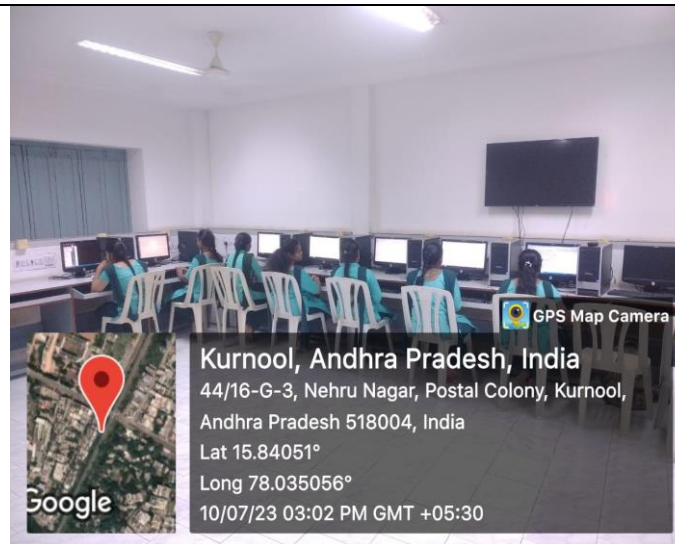
"a" "b" "c"

"A" "B" "C"

1 2 3

Error

Windows Search [Taskbar icons]



## **RESULTS:**

S no	Name of the student	Class	Email	Score
1	Kuruva pamakka gari ashok	I Bsc MSCS - C	hyperashok123@gmail.com	52 / 100
2	Polisetty krishnaveni	I BSc MSCS - A	kittu05102004@gmail.com	36 / 100
3	K.narasimha Reddy	I Bsc MSCS - C	knarasimhareddy154@gmail.com	20 / 100
4	ODIGALLU JAGADISH	I Bsc MSCS - C	jaguj5355@gmail.com	20 / 100
5	SHAIK HAMIYA	I BSc MSCS - A	shaikhamiya30@gmail.com	20 / 100
6	G. Navya	I BSc MSCS - A	gnavya038@gmail.com	36 / 100
7	B.vamshi	I Bsc MSCS - C	budde.vamshi03@gmail.com	40 / 100
8	Dhanush	I Bsc MSCS - C	dhanushperumala2005@gmail.com	44 / 100
9	Dasari Somanadh	I Bsc MSCS - C	somanadhsomanadh0@gmail.com	24 / 100
10	Kasapuram sruthi	I BSc MSCS - A	kasapuramsruthi@gamil.com	52 / 100
11	Gadwal Shoab	I Bsc MSCS - C	gshoab2005@gmail.com	44 / 100
12	Uppara yasaswini	I BSc MSCS - A	yasaswini4002@gmll.com	36 / 100
13	Kuruva Mounika	I BSc MSCS - A	kuruvamounika2005@gmail.com	40 / 100
14	B.Harish Singh	I Bsc MSCS - C	harishsinghrajaputana06@gmail.com	24 / 100
15	MOLLA ABDUL HUSSAIN	I Bsc MSCS - C	ah9180991@gmail.com	16 / 100
16	M.Lalitha Sri	I BSc MSCS - A	lalithasrimurari@gmail.com	16 / 100
17	Kuruva Indu	I BSc MSCS - A	indu62811@gmail.com	36 / 100
18	A.meghana	I BSc MSCS - A	akulameghanayadav540@gmail.com	32 / 100
19	Dudekula Shabbeer	I Bsc MSCS - C	dudekulashabbeer143@gmail.com	32 / 100
20	N. Vinith Reddy	I Bsc MSCS - C	vinithreddy3355@gmail.com	40 / 100
21	C. Kalyan Kumar	I Bsc MSCS - C	ckalyankumar20@gmail.com	52 / 100
22	B jahnvi	I BSc MSCS - A	jahnvi3205@gmail.com	28 / 100
23	Erramalla Vinay Kumar	I Bsc MSCS - C	evinaykumar2002@gmail.com	32 / 100
24	J.Hari priya	I BSc MSCS - A	jeradoddiharipriya@gmail.com	44 / 100
25	Sandhapagu Immanuel	I Bsc MSCS - C	s.immanuel1909@gmail.com	32 / 100
26	Shaik Rizwana	I BSc MSCS - A	shaikrizwana5237@gmail.com	12 / 100
27	BESTHA JAGADEESH	I Bsc MSCS - C	besthajagadeesh2222@gmail.com	32 / 100
28	VEMULA YELLA KRISHNA	I Bsc MSCS - C	yellakrishnav7@gmail.com	40 / 100
29	BAGILI shainaj begum	I BSc MSCS - A	shainajbegum543@gmail.com	28 / 100
30	D.sri vidya	I BSc MSCS - A	vidduvidya1712@gmail.com	32 / 100
31	Sabbireddy.keerthireddy	I BSc MSCS - A	sabbireddykeerthireddy@gmail.com	24 / 100



# FEEDBACK

Link : <https://forms.gle/16GNcAbDEdexpCz456>

Introduction to R - Value Added Course 2023

Questions Responses 33 Settings Total points: 100

Section 3 of 3

**Feedback of Value Added Course on Introduction to R**

Organized by Department of Statistics  
St. Joseph's Degree College,  
Sunkesula Road, Kurnool - A.P.

How useful to you was this course?

Multiple choice

- Extremely useful
- Very useful
- Slightly useful
- Add option or add "Other"

Answer key (0 points) Required

ID	Name of the Student (full name)	Class	How useful to you was this course?	How much did you like it?	Overall, how would you rate this course?	Would you like to participate in the next course?	Merged Doc ID - R C	Merged Doc URL - R Link to merged Doc - Document Merge Status - R Cert
1	Kiruvu pamakka gari ashok	I BSc MSCS - C	Extremely useful	A lot	Excellent	Yes	1jK5Ew3Ns1ewa4zLw	<a href="https://docs.google.com/ValueAddedCourse_R">https://docs.google.com/ValueAddedCourse_R</a> Document successfully created, D
2	Polisetty krishnaveni	I BSc MSCS - A	Extremely useful	A moderate amount	Excellent	Yes	1292Dg2Yw61K1yKUI8	<a href="https://docs.google.com/ValueAddedCourse_R">https://docs.google.com/ValueAddedCourse_R</a> Document successfully created, D
4	K narasimha Reddy	I BSc MSCS - C	Very useful	A little	Excellent	Yes	1f2QcXJ8W4AuhqHfN	<a href="https://docs.google.com/ValueAddedCourse_R">https://docs.google.com/ValueAddedCourse_R</a> Document successfully created, D
5	ODIGALLU JAGADISH	I BSc MSCS - A	Very useful	A lot	Very good	Yes	1EXPmmQx7Ud079fH	<a href="https://docs.google.com/ValueAddedCourse_R">https://docs.google.com/ValueAddedCourse_R</a> Document successfully created, D
6	SHAIK HAMIYA	I BSc MSCS - A	Very useful	A great deal	Very good	Yes	1nGhQWzuMKLH_Rek	<a href="https://docs.google.com/ValueAddedCourse_R">https://docs.google.com/ValueAddedCourse_R</a> Document successfully created, D
7	G Navya	I BSc MSCS - A	Very useful	A great deal	Very good	Yes	1CTmzy_HjfmJYCHX	<a href="https://docs.google.com/ValueAddedCourse_R">https://docs.google.com/ValueAddedCourse_R</a> Document successfully created, D
8	B vamsi	I BSc MSCS - C	Extremely useful	A lot	Excellent	Yes	1u2AqB3nPYPaRkRcX	<a href="https://docs.google.com/ValueAddedCourse_R">https://docs.google.com/ValueAddedCourse_R</a> Document successfully created, D
9	Dhanush	I BSc MSCS - C	Very useful	A great deal	Excellent	Yes	1Ry4_FYCLGADaWz	<a href="https://docs.google.com/ValueAddedCourse_R">https://docs.google.com/ValueAddedCourse_R</a> Document successfully created, D
10	Dasari Somanadh	I BSc MSCS - C	Very useful	A lot	Excellent	Yes	1u5kRHe_XpSDxXV0	<a href="https://docs.google.com/ValueAddedCourse_R">https://docs.google.com/ValueAddedCourse_R</a> Document successfully created, D
11	Kasapuram sruthi	I BSc MSCS - A	Very useful	A great deal	Very good	Yes	1g9PM193AqjDy_BP	<a href="https://docs.google.com/ValueAddedCourse_R">https://docs.google.com/ValueAddedCourse_R</a> Document successfully created, D
12	Gadwal Shoab	I BSc MSCS - C	Very useful	A lot	Excellent	Yes	1ue085ayZhw5S_5c	<a href="https://docs.google.com/ValueAddedCourse_R">https://docs.google.com/ValueAddedCourse_R</a> Document successfully created, D
13	Uppara yasawini	I BSc MSCS - A	Extremely useful	A great deal	Excellent	Yes	1rFk074K1AK89p-9i	<a href="https://docs.google.com/ValueAddedCourse_R">https://docs.google.com/ValueAddedCourse_R</a> Document successfully created, D
14	Kuruvu Mounika	I BSc MSCS - A	Extremely useful	A great deal	Excellent	Yes	1rWJKu8VGC0pSMK1	<a href="https://docs.google.com/ValueAddedCourse_R">https://docs.google.com/ValueAddedCourse_R</a> Document successfully created, D
15	B Harish Singh	I BSc MSCS - C	Extremely useful	A great deal	Excellent	Yes	1arrEQdTwzAPzUJst	<a href="https://docs.google.com/ValueAddedCourse_R">https://docs.google.com/ValueAddedCourse_R</a> Document successfully created, D
16	MOLLA ABDUL HUSSAIN	I BSc MSCS - C	Extremely useful	A moderate amount	Excellent	Yes	18UK-MN-HS4_A0Ub5	<a href="https://docs.google.com/ValueAddedCourse_R">https://docs.google.com/ValueAddedCourse_R</a> Document successfully created, D
17	M Lalitha Sri	I BSc MSCS - A	Very useful	A lot	Very good	Yes	1pTH2LXPWT7okwLSz	<a href="https://docs.google.com/ValueAddedCourse_R">https://docs.google.com/ValueAddedCourse_R</a> Document successfully created, D
18	Kuruvu Indu	I BSc MSCS - A	Very useful	A moderate amount	Good	Yes	19RmWk9mGyYSZoc	<a href="https://docs.google.com/ValueAddedCourse_R">https://docs.google.com/ValueAddedCourse_R</a> Document successfully created, D
19	A meghana	I BSc MSCS - A	Very useful	A little	Very good	Yes	11eAo1h128H1Fp6K	<a href="https://docs.google.com/ValueAddedCourse_R">https://docs.google.com/ValueAddedCourse_R</a> Document successfully created, D
20	Dudekula Shabbaree	I BSc MSCS - C	Very useful	A great deal	Good	Yes	1m5Cq6DnIFWjd-vZE	<a href="https://docs.google.com/ValueAddedCourse_R">https://docs.google.com/ValueAddedCourse_R</a> Document successfully created, D
21	N Vinith Reddy	I BSc MSCS - C	Very useful	A lot	Good	Yes	17JQ-Snl_NdhYmQ00	<a href="https://docs.google.com/ValueAddedCourse_R">https://docs.google.com/ValueAddedCourse_R</a> Document successfully created, D
22	C Kalyan Kumar	I BSc MSCS - C	Very useful	A lot	Very good	No	1U9F7061QcWu6u6	<a href="https://docs.google.com/ValueAddedCourse_R">https://docs.google.com/ValueAddedCourse_R</a> Document successfully created, D
23	B jahnavi	I BSc MSCS - A	Slightly useful	A moderate amount	Good	Yes	1HsI2EW7okMPmBCl	<a href="https://docs.google.com/ValueAddedCourse_R">https://docs.google.com/ValueAddedCourse_R</a> Document successfully created, D
24	Eramalla Vinay Kumar	I BSc MSCS - C	Extremely useful	A lot	Excellent	Yes	1D3cDkQZ12wqV0S	<a href="https://docs.google.com/ValueAddedCourse_R">https://docs.google.com/ValueAddedCourse_R</a> Document successfully created, D
25	J Hari priya	I BSc MSCS - A	Slightly useful	A little	Very good	Yes	1Bn47qd-kSX9CgIc	<a href="https://docs.google.com/ValueAddedCourse_R">https://docs.google.com/ValueAddedCourse_R</a> Document successfully created, D
26	Sandhapagu Immanuel	I BSc MSCS - C	Extremely useful	A great deal	Excellent	Yes	1eSPIM4KpqfYqM3n	<a href="https://docs.google.com/ValueAddedCourse_R">https://docs.google.com/ValueAddedCourse_R</a> Document successfully created, D
27	Shaik Rizwana	I BSc MSCS - A	Very useful	A lot	Very good	Yes	10VR1H0Z2EMfBaod	<a href="https://docs.google.com/ValueAddedCourse_R">https://docs.google.com/ValueAddedCourse_R</a> Document successfully created, D
28	BESTHA JAGADESH	I BSc MSCS - C	Extremely useful	A lot	Excellent	Yes	14e4AqI_FOLMfR0Dj	<a href="https://docs.google.com/ValueAddedCourse_R">https://docs.google.com/ValueAddedCourse_R</a> Document successfully created, D
29	VEEMULA YELLA KRISHNA	I BSc MSCS - C	Extremely useful	A great deal	Excellent	Yes	1G5bYVa7X0u4HEfHr	<a href="https://docs.google.com/ValueAddedCourse_R">https://docs.google.com/ValueAddedCourse_R</a> Document successfully created, D
30	BAGULI shainaj begum	I BSc MSCS - A	Very useful	A lot	Very good	Yes	1Obqee6DURzGMhWw	<a href="https://docs.google.com/ValueAddedCourse_R">https://docs.google.com/ValueAddedCourse_R</a> Document successfully created, D
31	D sri vidya	I BSc MSCS - A	Very useful	A lot	Excellent	Yes	18ny-qLvp-BLlVgXK	<a href="https://docs.google.com/ValueAddedCourse_R">https://docs.google.com/ValueAddedCourse_R</a> Document successfully created, D
32	Sabbireddy keerthreddy	I BSc MSCS - A	Very useful	A lot	Excellent	Yes	1D12FRYKzBNGQ_Q	<a href="https://docs.google.com/ValueAddedCourse_R">https://docs.google.com/ValueAddedCourse_R</a> Document successfully created, D



## E-certificate



## OUTCOMES:-

Upon successful completion of this course, a student will be able to

- Develop an R script and execute it.
- Install, load and deploy the required packages, and build new packages for sharing and reusability.
- Extract data from different sources using API and use it for data analysis.
- Visualize and summarize the data.
- Design application with database connectivity for data analysis