



**PERIYAR  
MANIAMMAI**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
(Deemed to be University)  
Established Under Sec. 3 of UGC Act, 1956 • NAAC Accredited

---

think • innovate • transform

## **PROGRAMME REPORT ON**

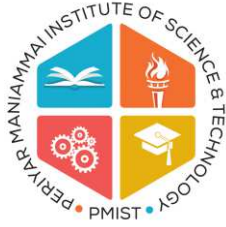
### **Data Analysis using R-Programming-Data Analysis using R- Programming**

Resource Person

**Mrs. G.Indumathi Assistant Professor of Computer Science A.V.V.M.  
Sri Pushpam College (Autonomous), Poondi, Thanjavur 613 503**

Organized by

**Mathematics- PMIST**



**PERIYAR  
MANIAMMAI**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
(Deemed to be University)  
Established Under Sec. 3 of UGC Act, 1956 • NAAC Accredited  
think • innovate • transform

# **PROGRAMME REPORT ON**

## **Training on Data Analysis Using R Programming**

Resource Person

**Mrs. G. Indumathi**  
Assistant Professor of Computer Science  
AVVM Sri Pushpam College (Autonomous), Poondi, Thanjavur

Organized by  
**Department of Mathematics**

# CONTENTS

<b>S.No</b>	<b>Topic</b>
1	Objective of the Programme
2	Brochure
3	Programme Schedule
4	Attendance Report
5	List of Participants
6	Programme Report
7	Certificate Copy
8	Geotagged Photos of the Event
9	Outcome of the Programme

**Two Days Training on Data Analysis Using R Programming**  
**26<sup>th</sup> & 27<sup>th</sup> September, 2024**  
*Organized by Department of Mathematics*

**Objective of the Programme:**

To equip participants with the fundamental concepts and practical skills in data analysis using R programming, focusing on statistical methods, data visualization, and computational efficiency.

## Brochure



**PERIYAR  
MANIAMMAI**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
(Deemed to be University)  
Established under Sec. 3 of U.C.A. 1956 - NAAC Accredited  
think • innovate • transform

Two days Training on  
“Data Analysis using  
R-Programming”

Date: 26th and 27th September  
2024

Time: 09.00 am

Venue: Seminar Hall, Education  
Block

### Coordinators

Dr.R.Arumugam, AP (SG)/ Maths  
Dr.R.Balakumar, AP/ Maths

## DEPARTMENT OF MATHEMATICS



### Resource Person

Mrs. G.Indumathi

Assistant Professor of Computer Science  
A.V.V.M. Sri Pushpam College (Autonomous),  
Poondi, Thanjavur 613 503  
Phone Number: 98437 23243.

## Department of Mathematics

Periyar Nagar, Vallam Thanjavur - 613 403, Tamil Nadu, India  
Phone: +91 7358053699 Fax: +91- 4362 - 264660  
Email: headmaths@pmu.edu Web: www. pmu.edu



**PERIYAR  
MANIAMMAI**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
(Deemed to be University)  
Established Under Sec. 3 of UGC Act, 1956 - NAAC Accredited  
think • innovate • transform

## Two Days Training on Data Analysis Using R Programming 26<sup>th</sup> & 27<sup>th</sup> September, 2024 *Organized by Department of Mathematics*

### PROGRAMME SCHEDULE

- 26<sup>th</sup> September, 2024 @ 9.00 am**
- Welcome Address** : **Ms. Syamaladevi. U**  
Student, II M.Sc  
Department of Mathematics  
Periyar Maniammai Institute of Science &  
Technology, Vallam, Thanjavur
- Presidential Address** : **Dr. A. Sasikala**  
Associate Professor & Head  
Department of Mathematics  
Periyar Maniammai Institute of Science &  
Technology, Vallam, Thanjavur
- Training begins at 9.20 am** : **Data Analysis Using R-Programming**  
**Mrs. G. Indumathi**  
Assistant Professor of Computer Science  
AVVM Sri Pushpam College (Autonomous),  
Poondi, Thanjavur
- 27<sup>th</sup> September, 2024 @ 9.00 am**
- Training begins at 9.05 am** : **Data Analysis Using R-Programming**  
**Mrs. G. Indumathi**  
Assistant Professor of Computer Science  
AVVM Sri Pushpam College (Autonomous),  
Poondi, Thanjavur
- Vote of Thanks** : **Ms. Asma A**  
Student, II M.Sc  
Department of Mathematics  
Periyar Maniammai Institute of Science &  
Technology, Vallam, Thanjavur

**Two Days Training on Data Analysis Using R Programming**  
**26<sup>th</sup> & 27<sup>th</sup> September, 2024**  
*Organized by Department of Mathematics*

**Attendance Report**

Number of Students (Male)	:	09
Number of Students (Female)	:	27
Total	:	36

**Two Days Training on Data Analysis Using R Programming**  
**26<sup>th</sup> & 27<sup>th</sup> September, 2024**  
*Organized by Department of Mathematics*

**List of Participants**

Department of Mathematics  
 Periyar Nagar, Valluvar Thangavar - 611 401, Tamil Nadu, India  
 Phone: +91 - 4352 - 264600, Fax: +91 - 4362 - 264600  
 Email: hr@pms.ac.in, Web: www.pms.edu



**Two Days Training on Data Analysis Using R- Programming**  
 26<sup>th</sup> and 27<sup>th</sup> September 2024

Venue : Seminar Hall- Education Block

Date: 26. 09. 2024

S. No.	Name	Branch	Year	Signature
1	P. DIVYA MANDHARAJ	II-M.Sc. Maths	II <sup>nd</sup>	
2	K. Devadharini	M.Sc Maths	II <sup>nd</sup>	
3	S. Koushika devi	M.Sc Maths	II <sup>nd</sup>	
4	A. Asma	M.Sc Maths	II <sup>nd</sup>	
5	M. Keerthana	M.Sc Maths	II <sup>nd</sup>	
6	M. Keerthana	M.Sc Maths	II <sup>nd</sup>	
7	U. SYAMALADEVI	M.Sc Maths	II	
8	M. Bharatharani	M.Sc Maths	II	
9	M. Subhara	M.Sc Maths	II	
10	V. Subashini	M.Sc Maths	II	
11	J. Aysha Uma Hani	M.Sc Maths	II	
12	R. Pradeepa	M.Sc Maths	I	
13	M. Shahitha	M.Sc Maths	I	
14	T. Gunjan	M.Sc Maths	I	
15	K. Abhirami	M.Sc Maths	I	
16	T. Kali Anandhi	M.Sc Maths	I	
17	B. Praloksha	M.Sc Maths	I	

**Two Days Training on Data Analysis Using R Programming**  
**26<sup>th</sup> & 27<sup>th</sup> September, 2024**  
**Organized by Department of Mathematics**  
**List of Participants**

Department of Mathematics  
 Periyar Nagar, Valluvar Thuraiyur - 613 403, Tamil Nadu, India  
 Phone: +91 - 4362 - 264600, Fax: +91 - 4362 - 264660  
 Email: hod@pmu.edu, Web: www.pmu.edu



**Two Days Training on Data Analysis Using R- Programming**  
 26<sup>th</sup> and 27<sup>th</sup> September 2024

Venue : Seminar Hall- Education Block

Date: 26. 09. 2024

S. No.	Name	Branch	Year	Signature
18	Azulfath M	I. M.Sc Mathematics	I	M. Azulfath
19	P. Selva Kumar	I. M.Sc mathematics	I	P. Selva Kumar
20	D. Manoj Kumar	I. M.Sc. Mathematics	I	D. Manoj Kumar
21	Sujitha	I. M.Sc. Mathematics	I	Sujitha
22	C. Dhanuvaran	II B.Sc Maths	II	C. Dhanuvaran
23	S. VINESH	II B.Sc MATHS	II	S. VINESH
24	A. Noorul Aha	III - B.Sc Maths	III	A. Noorul Aha
25	A. Saravanan	III - B.Sc Maths	III	A. Saravanan
26	M. Aniraya	II - B.Sc Math	I	M. Aniraya
27	P. Anirudh	II - B.Sc Math	II	P. Anirudh
28	K. Shanmugapriya	II - B.Sc Math	II	K. Shanmugapriya
29	D. Sivaraja	II - B.Sc Math	II	D. Sivaraja
30	A. Anitha	III B.Sc Math	III	A. Anitha
31	M. Gunasekaran	III B.Sc Math	III	M. Gunasekaran
32	T. Nishantha	II B.Sc Math	II	T. Nishantha
33	S. Logan	III B.Sc Math	III	S. Logan
34	S. M. Anand	II B.Sc Math	II	S. M. Anand
35	P. Mahankumar	III B.Sc Math	III	P. Mahankumar

  
 Chandrasekaran  
 Assoc. Professor  
 Department of Mathematics  
 Periyar Maniammai University  
 Valluvar Thuraiyur, Tamil Nadu, India  
 Phone: +91-4362-264600

05 List of participants

## Two Days Training on Data Analysis Using R Programming 26<sup>th</sup> & 27<sup>th</sup> September, 2024 Organized by Department of Mathematics List of Participants

Department of Mathematics  
Periyar Nagar, Vallam Thangavar - 613 403, Tamil Nadu, India  
Phone: +91 - 4362 - 264600, Fax: +91- 4362 - 264600  
Email: headsw@pmu.edu, Web: www.pmu.edu



Two Days Training on Data Analysis Using R- Programming  
26<sup>th</sup> and 27<sup>th</sup> September 2024

Venue : Seminar Hall- Education Block

Date: 27. 09. 2024

S. No.	Name	Branch	Year	Signature
1.	P. DIVYA MANCHARI	M.Sc. Mathematics	II <sup>nd</sup>	
2.	S. Kiruthikadevi	"	"	
3.	A. Asma	"	"	
4.	M. Keerthana	"	"	
5.	M. Keerthana	"	"	
6.	K. Devadharini	"	"	
7.	N. Gopika	"	"	
8.	V. Subashini	"	"	
9.	M. Subhasni	"	"	
10.	M. Bhavadharani	"	"	
11.	V. Syamaladevi	"	"	
12.	J. Ayesha Umma Haris	"	"	
13.	R. Pradnya	M.Sc. Mathematics	I <sup>st</sup>	
14.	T. Kati Anandhi	"	"	
15.	K. Abhirami	"	"	
16.	T. Gunjan	"	"	
17.	H. Shahithia	"	"	

**Two Days Training on Data Analysis Using R Programming**  
**26<sup>th</sup> & 27<sup>th</sup> September, 2024**  
**Organized by Department of Mathematics**  
**List of Participants**

Department of Mathematics  
 Periyar Nagar, Vallam Thanjavar - 613 403, Tamil Nadu, India  
 Phone: +91 - 4362 - 264600, Fax: +91- 4362 - 264660  
 Email: head@pma.edu, Web: www.pma.edu



Two Days Training on Data Analysis Using R- Programming  
 26<sup>th</sup> and 27<sup>th</sup> September 2024

Venue : Seminar Hall- Education Block

Date: 27. 09. 2024

S. No.	Name	Branch	Year	Signature
18	B. Prasanthkumar	M.Sc Maths	I	[Signature]
19	Aruljothi M	M.Sc Maths	I	[Signature]
20	P.Selva Kathir	M.Sc Maths	I	[Signature]
21	Mandj Kumar	M.Sc Maths	I	[Signature]
22	Sujitha	M.Sc Maths	I	[Signature]
23	C. Duraimurugan	B.Sc Maths	II	[Signature]
24	S. Anirudh	B.Sc Maths	II	[Signature]
25	P. Nalin Kumar	B.Sc Maths	IV	[Signature]
26	M. Gunasekaran	B.Sc Maths	IV	[Signature]
27	D. Saravathi	B.Sc Maths	IV	[Signature]
28	P. Anuraghi	B.Sc Maths	III	[Signature]
29	K. Shanmugasri	B.Sc Maths	IV	[Signature]
30	T. Nishanth	B.Sc Maths	II	[Signature]
31	S. Logathi	B.Sc Maths	III	[Signature]
32	S.K. Parthiban	B.Sc Maths	IV	[Signature]
33	Vinith S	B.Sc Maths	IV	[Signature]
34	A. Pramesh Lakshmi	B.Sc Maths	III	[Signature]



**Two Days Training on Data Analysis Using R Programming**  
**26<sup>th</sup> & 27<sup>th</sup> September, 2024**  
*Organized by Department of Mathematics*  
**Report of the Programme**

The Department of Mathematics at Periyar Maniammai Institute of Science & Technology organized a Two Days Training Programme on Data Analysis Using R-Programming on 26th and 27th September 2024. The sessions were conducted by Mrs. G. Indumathi, Assistant Professor of Computer Science at AVVM Sri Pushpam College (Autonomous), Poondi, Thanjavur.

**Day 1 Highlights:**

The program commenced with a welcome address by Ms. Syamaladevi. U, followed by a presidential address by Dr. A. Sasikala.

The training introduced participants to the fundamentals of R programming, with a focus on statistical analysis and data manipulation.

**Day 2 Highlights:**

Continued hands-on training covered advanced topics such as data visualization, statistical testing, and real-world data case studies.

The session concluded with a vote of thanks by Ms. Asma A.

The program provided a comprehensive learning experience, enabling participants to leverage R for academic research and data-driven problem-solving.

**Key Points:**

**Introduction to R Programming**

- Overview of R and its applications in data analysis.
- Setting up the R environment and basic syntax.

**Data Manipulation in R**

- Importing and exporting datasets.
- Cleaning and preprocessing data.
- Working with data frames and lists.

**Data Visualization**

- Creating graphs and charts (e.g., histograms, scatter plots, bar graphs).
- Customizing visualizations for clarity and presentation.
- Using libraries like ggplot2 for advanced visualization.

**Statistical Analysis Using R**

- Descriptive statistics (mean, median, mode, variance).



**PERIYAR  
MANIAMMAI**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
(Deemed to be University)  
Established Under Sec. 3 of UGC Act, 1956 - NAAC Accredited  
think • innovate • transform

## CERTIFICATE OF APPRECIATION

This is to certify that

{Name}

Institute Name

has participated in the “Two Days Training on Data Analysis Using R- Programming” organized by Department of Mathematics , Periyar Maniammai Institute of Science & Technology, Deemed to be University, Vallam, Thanjavur from 26th September 2024 to 27th September 2024.

Dr. A. Sasikala  
Head- Mathematics

Dr. P. Vijayalakshmi  
Dean - FHSM

**Two Days Training on Data Analysis Using R Programming**  
**26<sup>th</sup> & 27<sup>th</sup> September, 2024**  
*Organized by Department of Mathematics*



Fig.1. Welcome Address by Ms. Syamaladevi. U, II M.Sc Mathematics

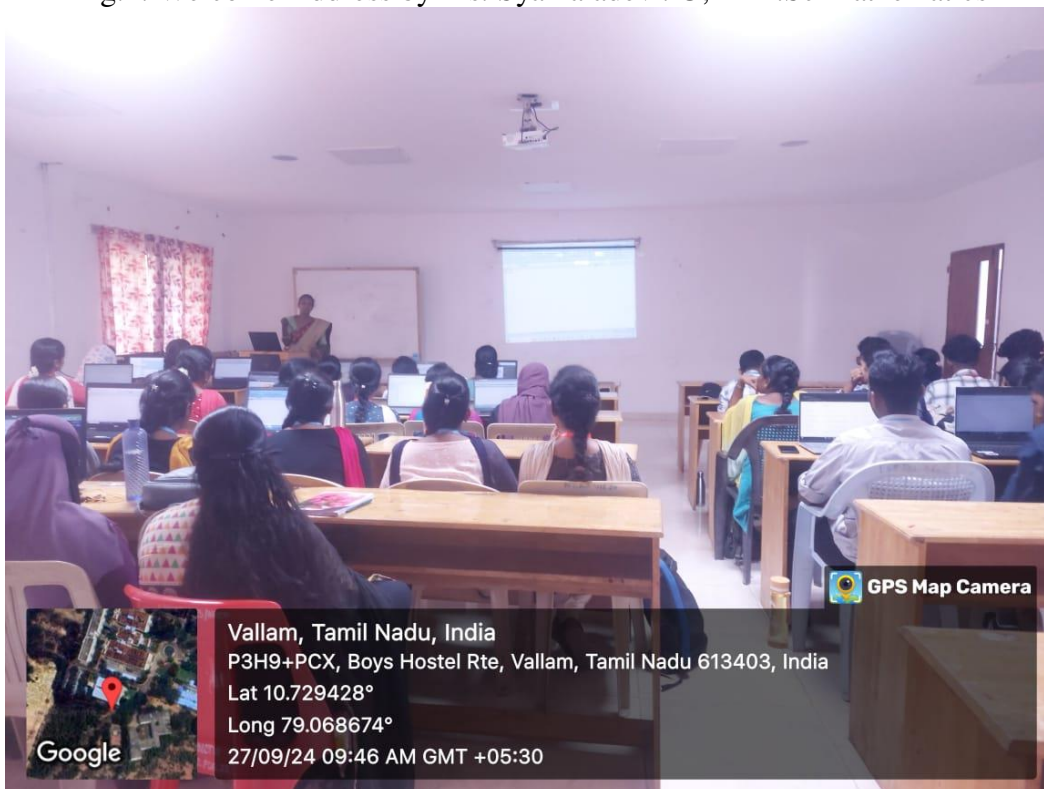


Fig.2. Training Session conducted by Mrs. G. Indumathi

**Two Days Training on Data Analysis Using R Programming**  
**26<sup>th</sup> & 27<sup>th</sup> September, 2024**  
*Organized by Department of Mathematics*

**Outcomes of the programme:**

At the end of the training, participants will be able to:

- Apply R programming for data analysis tasks including data manipulation and visualization.
- Utilize statistical methods to interpret datasets effectively.
- Implement R-based tools for practical applications in academic and professional settings.



Dr. R. Arumugam



Dr. R. Balakumar



Department of Mathematics  
Periyar Maniammai  
Institute of Science & Technology  
Periyar Nagar, Valiam, Thanjavur-613 403.