



**PERIYAR  
MANIAMMAI**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
(Deemed to be University)  
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think • innovate • transform

## **PROGRAMME REPORT ON**

### **One Week Online Short Term Training Programme on Python, R and Latex-**

Resource Person

**Dr. S.XAVIER Assistant Professor Department of Statistics Loyola  
College, Chennai-600 034 Tamil Nadu, India**

**Dr.B.SENTHILKUMAR Assistant Professor Department of Statistics  
Thanthai Periyar Government Arts & Science College  
Tiruchirappalli-620 023 Tamil Nadu, India**

**Dr. A. MUTHAMIZH SELVAN Associate Professor Department of  
Computer Science and Application Faculty of Computing Sciences  
and Engineering Periyar Maniammai Institute of Science and  
Technology (PMIST) Periyar Nagar, Vallam, Thanjavur, TamilNadu  
– 613403, India**

Organized by  
**Mathematics- PMIST**

## **CONTENTS**

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## **One Week Online Short Term Training Programme on “Python, R and Latex”**

**Organized by Department of Mathematics in association with Centre for Human Resource Development (CHRD), PMIST**

**Date: 20<sup>th</sup> to 26<sup>th</sup> September 2023**

### **Objective of the Programme**

This training course on Python, R, and Latex aims to demonstrate how these three programming languages are quickly emerging as essential tools for academics, learners, and research scholars because of their design, extensibility, and accessibility to open source libraries for scientific computing and data visualization.

## 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



# “ONE WEEK ONLINE SHORT-TERM TRAINING PROGRAMME ON PYTHON, R AND LATEX” 20- 26, SEPTEMBER 2023

## PROGRAMME SCHEDULE

Google Meet Video call link: <https://meet.google.com/dyv-vnjt-mvj>

Day 1: 20.09. 2023 –Starts at 2.45 pm

Welcome Address : Dr. R. Arumugam  
Assistant Professor (SG)  
Department of Mathematics  
Periyar Maniammai Institute of Science &  
Technology, Vallam, Thanjavur

Presidential Address : Dr. S. Velusami  
Vice Chancellor,  
Periyar Maniammai Institute of Science &  
Technology, Vallam, Thanjavur

Introduction of Chief Guest : Dr. C. Vimala  
**Dr. S. Xavier**  
Associate Professor  
Department of Mathematics  
Periyar Maniammai Institute of Science &  
Technology, Vallam, Thanjavur

Training Session begins at 3.00 pm and ends at 5.00 pm : **Python by**  
on 20.09.2023 **Dr. S. Xavier**  
Assistant Professor  
Department of Statistics  
Loyola College, Chennai

Day 2 : 21.09.2023

Training Session begins at 3.00 pm and ends at 5.00 pm : **Python by**  
on 21.09.2023 **Dr. S. Xavier**  
Assistant Professor  
Department of Statistics  
Loyola College, Chennai

Day 3 : 22.09.2023

Introduction of Chief Guest : **Dr. A. Sasikala**  
**Dr. B. Senthilkumar**  
Associate Professor  
Department of Mathematics  
Periyar Maniammai Institute of Science &  
Technology, Vallam, Thanjavur

Training Session begins at 3.00 pm and ends at 5.00 pm : **R-Programming by**  
on 22.09.2023 **Dr. B. Senthilkumar**  
Assistant Professor, Department of Statistics  
Thanthai Periyar Government Arts & Science  
College, Tiruchirappalli

Day 4 : 23.09.2023

Training Session begins at 3.00 pm and ends at 5.00 pm : **R-Programming by**  
on 23.09.2023 **Dr. B. Senthilkumar**  
Assistant Professor  
Department of Statistics  
Thanthai Periyar Government Arts & Science  
College, Tiruchirappalli

Day 5 : 24.09.2023

Self Study : Dr. R. Arumugam  
Assistant Professor (SG)  
**Dr. R. Balakumar**  
Assistant Professor  
Department of Mathematics  
Periyar Maniammai Institute of Science &  
Technology, Vallam, Thanjavur

Day 6 : 25.09.2023

Introduction of Chief Guest : **Dr. R. Balakumar**  
**Dr. A. Muthamizh Selvan**  
Assistant Professor  
Department of Mathematics  
Periyar Maniammai Institute of Science &  
Technology, Vallam, Thanjavur

Training Session begins at 3.00 pm and ends at 5.00 pm : **Latex by**  
on 24.09.2023 **Dr. A. Muthamizh Selvan**  
Associate Professor  
Department of Computer Science and Application  
Faculty of Computing Sciences and Engineering  
Periyar Maniammai Institute of Science &  
Technology, Vallam, Thanjavur

Day 7 : 26.09.2023

Training Session begins at 3.00 pm and ends at 5.00 pm : **Latex by**  
on 26.09.2023 **Dr. A. Muthamizh Selvan**  
Associate Professor  
Department of Computer Science and Application  
Periyar Maniammai Institute of Science &  
Technology, Vallam, Thanjavur

Vote of thanks : Dr. S. Buvaneswari  
Associate Professor & Head  
Department of Mathematics  
Periyar Maniammai Institute of Science &  
Technology, Vallam, Thanjavur



ONE WEEK ONLINE  
SHORT TERM TRAINING PROGRAMME ON

# PYTHON R & LATEX

Organized by Department of Mathematics

**20 - 26**  
SEPTEMBER, 2023

**START AT**  
03:00PM  
05:00PM



**Dr. B. Senthilkumar**

Assistant Professor  
Thanthai Periyar  
Government Arts &  
Science  
College, Trichy



**Dr. S. Xavier**

Assistant Professor  
Loyola College,  
Chennai



**Dr. A. Muthamizh Selvan**

Associate Professor, PMIST, Thanjavur

**REGISTER NOW**

<https://forms.gle/hyQJkLXrK2UX63HK6>

Last date for registration : 18.09.2023

Coordinator

**Dr. R. Arumugam, 9003976747**

**Dr. R. Balakumar, 9940757835**

**Registration Fee**

The registration fee for participants Rs: 300/- for Research scholars and Faculty members- and Rs: 150/- for Students.

Account Name / Periyar Maniammai Institute of Science and Technology  
Account Number : PM01RMXXXXXXX789101121314  
Branch Address / Indian Overseas Bank, PMU Campus, (Makarapatti - 613-403)

**www.pmu.edu**



Gmail interface showing an email from Arumugam R AP/ Maths regarding a One Week Online Short Term Training Programme on "Python, R and Latex".

**Subject:** One Week Online Short Term Training Programme on "Python, R and Latex" - Regarding

**From:** Arumugam R AP/ Maths <arumugamr@pmu.edu>

**To:** Pawan, Fathima, 19mos26, harshasay23, durgacharankondabathula, lekha.phd2101, HRISHIKESH, Sanju, Vidhya, Pnijo, Vimal, asst-prof-divya, ashilyshibu11

**Date:** Fri, Sep 15, 3:49 PM

Dear Professor,  
Greetings of the Day!

Department of Mathematics in association with Centre for Human Resource Development, Periyar Maniammai Institute of Science and Technology is organizing an **One Week Online Short Term Training Programme on "Python, R and Latex"** from **20<sup>th</sup> to 26<sup>th</sup> September, 2023** (Online Mode). We request you to encourage your faculty members, colleagues, research scholars and Students from all engineering and non-engineering domains to attend the programme to enrich their knowledge.

For registered candidates the online link to the Short Term Training Programme will be sent on 18<sup>th</sup> September 2023.

**Herewith I have attached a brochure for the same.**

**For Registration**  
<https://forms.gle/a7SID5DGbooGh5wMA>

Registration Fee: **Faculty and Research scholars Rs. 300; Students Rs. 150**  
**Account Details**  
**A/C Name : Periyar Maniammai Institute of Science and Technology**




Compose

- Inbox 6
- Starred
- Snoozed
- Sent
- Drafts 198
- More
- Labels +

2 of 4

### One Week Online Short Term Training Programme on "Python, R and Latex"-Reg

 **Arumugam R AP/ Maths** <arumugamr@pmu.edu>  
to Xavier, senthilkumarbalan, drmuthamizh

Fri, Aug 25, 1:17 PM

Dear Sir

As per our phone conversation, we have to prepare Brochure and Invitation, for this I need the tentative topics to be covered in the STTP. Kindly I request you to provide the same. Herewith I have Attached the document for the topics to be covered for your reference.

**Thanks and Regards**

**Dr. R.Arumugam** M.Sc (Stat), M.Sc (Maths), M.Phil, PGDCA, MBA, Ph.D  
Assistant Professor (SG)

Department of Mathematics  
Faculty of Humanities Sciences & Management



## Department of Mathematics

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# “ONE WEEK ONLINE SHORT-TERM TRAINING PROGRAMME ON PYTHON, R AND LATEX” 20- 26, SEPTEMBER 2023

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Day 3 : 22.09.2023

Introduction of Chief Guest : **Dr. A. Sasikala**  
**Dr. B. Senthilkumar**  
Associate Professor  
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Technology, Vallam, Thanjavur

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Technology, Vallam, Thanjavur

Training Session begins at 3.00 pm and ends at 5.00 pm : **Latex by**  
on 24.09.2023 **Dr. A. Muthamizh Selvan**  
Associate Professor  
Department of Computer Science and Application  
Faculty of Computing Sciences and Engineering  
Periyar Maniammai Institute of Science &  
Technology, Vallam, Thanjavur

Day 7 : 26.09.2023

Training Session begins at 3.00 pm and ends at 5.00 pm : **Latex by**  
on 26.09.2023 **Dr. A. Muthamizh Selvan**  
Associate Professor  
Department of Computer Science and Application  
Periyar Maniammai Institute of Science &  
Technology, Vallam, Thanjavur

Vote of thanks : Dr. S. Buvaneswari  
Associate Professor & Head  
Department of Mathematics  
Periyar Maniammai Institute of Science &  
Technology, Vallam, Thanjavur



# **One Week Online Short Term Training Programme on “Python, R and Latex”**

**Organized by Department of Mathematics in association with Centre for Human Resource Development (CHRD), PMIST**

**Date: 20<sup>th</sup> to 26<sup>th</sup> September 2023**

## **Male and Female Count**

**Male count = 19**

**Female count = 68**

**Total = 87**

## **Student Count**

Number of Male Student = 01

Number of Female students =22

Total number of Students = 23

## Department of Mathematics

Chennai Region, Periyar Maniammai Institute of Science & Technology,  
P.O. Box - 491, T. J. Nagar, Chennai - 600 092, India.  
Phone: +91 7218213408 Fax: +91 4362 - 262660  
Email: math@scholapms.ac.in Website: pms.ac.in



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### "ONE WEEK ONLINE SHORT-TERM TRAINING PROGRAMME ON PYTHON, R AND LATEX" 20- 26, SEPTEMBER 2023

#### IMPORTANT POINTS FROM THE RESOURCE PERSON TALK (Session wise)

Google Meet Video call link: <https://meet.google.com/djvy-vnff-mvq>

**Day 1 & 2 : 20.09.2023 & 21.09.2023**

#### Resource Person

**Python by**  
**Dr. S. Xavier**  
Assistant Professor  
Department of Statistics  
Loyola College, Chennai

#### Key Points

- : Basics of Python Programming, Mathematical Libraries, Visualization, Stats libraries in Python, Solving Mathematical problems using python, Machine Learning in Python

**Day 3 : 22.09.2023**

**R by**  
**Dr. S. Xavier**  
Assistant Professor  
Department of Statistics  
Loyola College, Chennai

- : Basics of R Programming, Mathematical libraries, Stats Libraries in R.  
**Statistical Analysis**  
Discrete and Continuous Random Number Generation using R, Goodness of Fit, Statistical Test, Regression Analysis.

**Day 4 : 23.09.2023**

**R by**  
**Dr. Ruben Raja**  
Assistant Professor  
Department of Statistics  
Loyola College, Chennai

- Data Processing**  
Missing value imputation, Testing, Training and Splitting Data

**Day 5 : 24.09.2023**

**Self Study**  
**Dr. R. Arumugam**  
Assistant Professor (SG)  
**Dr. R. Balakumar**  
Assistant Professor  
Department of Mathematics  
Periyar Maniammai Institute of Science & Technology,  
Vallam, Thanjavur

- : Lectures are designed to be interactive and to offer students adequate time to get hands on practice with the subject matter.

**Day 6 & 7 : 25.09.2023 & 26.09.2023**

**Latex by**  
**Dr. A. Mathamish Selvan**  
Associate Professor  
Department of Computer Science and Application  
Faculty of Computing Sciences and Engineering  
Periyar Maniammai Institute of Science & Technology,  
Vallam, Thanjavur

- : Introduction to basics of Latex  
Fonts, Commands with Latex  
Formular, equations, matrix, figures with Latex  
Tables, Graphics and Pictures Lists, Arrays and Document Structure  
Formatting, References and Bibliography and Citations



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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 <One Week Online Short Term Training Programme on Python, R and Latex= organized by Department of Mathematics in association with Centre for Human Resource Development, Periyar Maniammai Institute of Science & Technology (Deemed to be University), Vallam, Thanjavur during the period between 20.09.2023 to 26.09.2023

Dr. R. Arumugam  
Co-Ordinator

Dr. S. Buvaneswari  
Head- Mathematics

Dr. P. Vijayalakshmi  
Dean (i/c) - FHSM



Dr. S. Raja has delivered a lecture on basics of python with the statistical concept



Dr. Subas raja has presenting a lecture on correlation and regression using R programming.



Dr. A. Muthusubramanian presenting a lecture on Latex and its importance in research



# Registration Form - One Week Online Short Term Training Programme on <Python, R and Latex= from 20th to 26th September 2023

Organized by Department of Mathematics in association with Centre for Human Resource Development, Periyar Maniammai Institute of Science and Technology, Thanjavur, Tamil Nadu

\* Indicates required question

---

1. Email \*

---

2. Name of the Participant \*

---

3. Email Id \*

---

4. Designation / Roll of the Participant \*

*Mark only one oval.*

- Professor
- Associate Professor
- Assistant Professor
- Research scholar
- Student
- Others

5. Department /Specialization \*

---

6. Institution Name \*

---

7. Institution Address \*

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8. WhatsApp Number \*

---

9. Amount of Registration fee Paid \*

*Mark only one oval.*

Yes

No

10. Transaction ID \*

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11. Date of payment \*

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*Example: January 7, 2019*

12. Please upload payment receipt \*

Files submitted:

13. Please Join in the WhatsApp

Group <https://chat.whatsapp.com/BYfvRFR4F9mASQ5rkQGTij>

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# Registration Form - One Week Online Short Term Training Programme on <Python, R and Latex= from 20th to 26th September 2023

Organized by Department of Mathematics in association with Centre for Human Resource Development, Periyar Maniammai Institute of Science and Technology, Thanjavur, Tamil Nadu

\* Indicates required question

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2. Name of the Participant \*

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4. Designation / Roll of the Participant \*

*Mark only one oval.*

- Professor
- Associate Professor
- Assistant Professor
- Research scholar
- Student
- Others

5. Department /Specialization \*

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6. Institution Name \*

---

7. Institution Address \*

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8. WhatsApp Number \*

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9. Amount of Registration fee Paid \*

*Mark only one oval.*

Yes

No

10. Transaction ID \*

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11. Date of payment \*

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*Example: January 7, 2019*

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Files submitted:

13. Please Join in the WhatsApp

Group <https://chat.whatsapp.com/BYfvRFR4F9mASQ5rkQGTij>

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Google Forms

# Feedback Form- One Week Online Short Term Training Programme on "PYTHON, R and LATEX" from 20th to 26th September 2023

81 responses

[Publish analytics](#)



Dr. ANITHA V

NILESH PRAKASH

SHENDKAR S P KULANDAIVEL

BABU NINITHA MARY

ANTONINA N.MMAHENDRA

MOHAN B BHUVANESWARI.J

DR. HARIOM SINGH TOMAR

Dr. ASHA

K Praveena

SENTHIL KUMAR J

RAJANDRAN KVR

GAIKWAD ANIL PANDURANG

Dr.M.Mary Jansirani

K. Rabiyyath Beebi

Dr. K.

RAVIKUMAR

ANTO. A. M

K.DOMNIC THAVAGNANA

NACHATHIRAMVAIJANATH LAXMANRAO

CHINCHANE PROF. KRUTIKA BALRAM

KAKPURE

U SYAMALADEVI

Priyanka C

P DIVYA MANOHARI

DR. HARDEVINDER

SINGHALIES PRINCY.G

VYSHNAVI K

Amala Linus

S. THATCHAYANI

KAKASAHEB S. JADHAV

Dr.C.NATESAMURTHI

M SUBHASRI

REKHA MITTAL

SOPHERS J

S.ANU

SUPRIYA BAGEWADI

SHIVAPRASAD



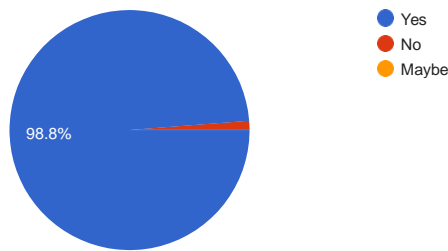


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This Short Term Training Programme (STTP) was informative?

81 responses

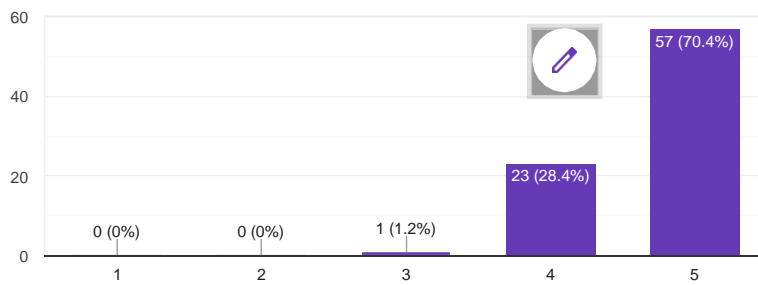
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How much satisfied with the 1st 2nd and 3rd Session (Python 1st and 2nd Session and R - 3rd session) handled by Dr.S.Xavier)?

 Copy

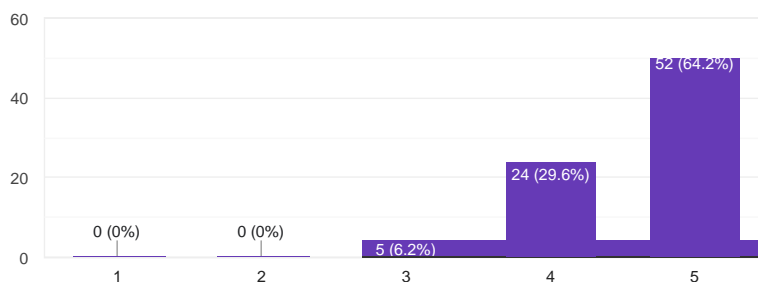
81 responses

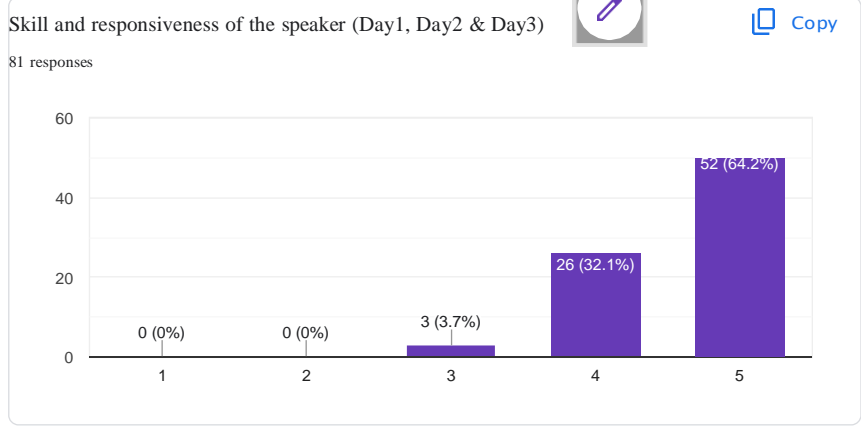
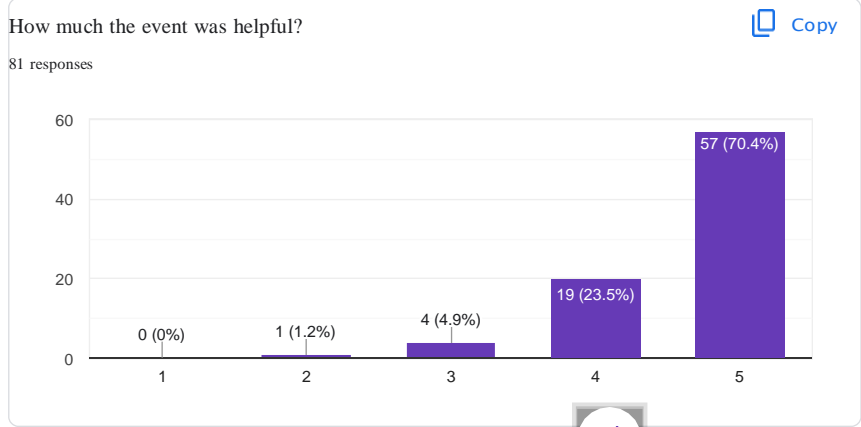
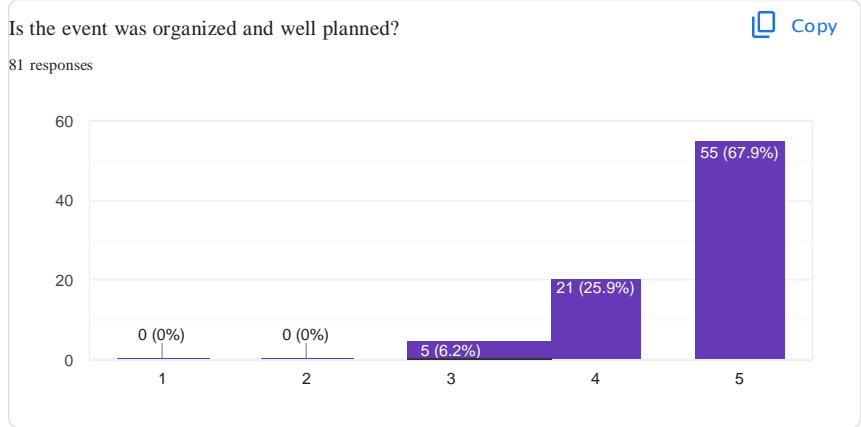
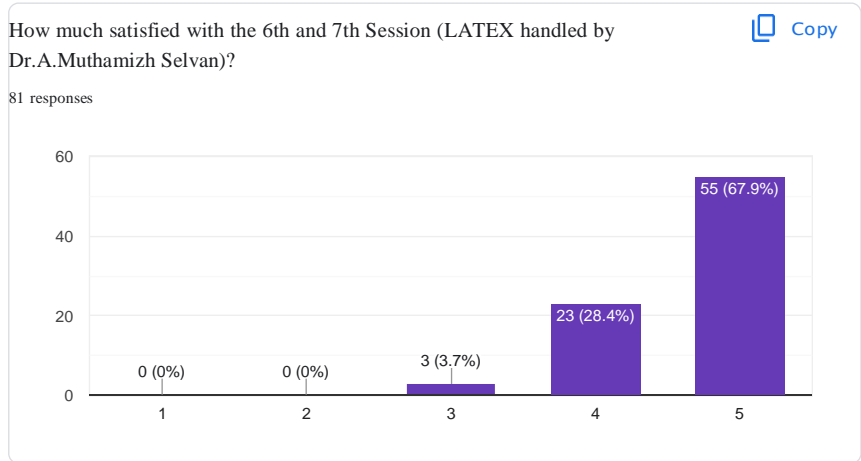


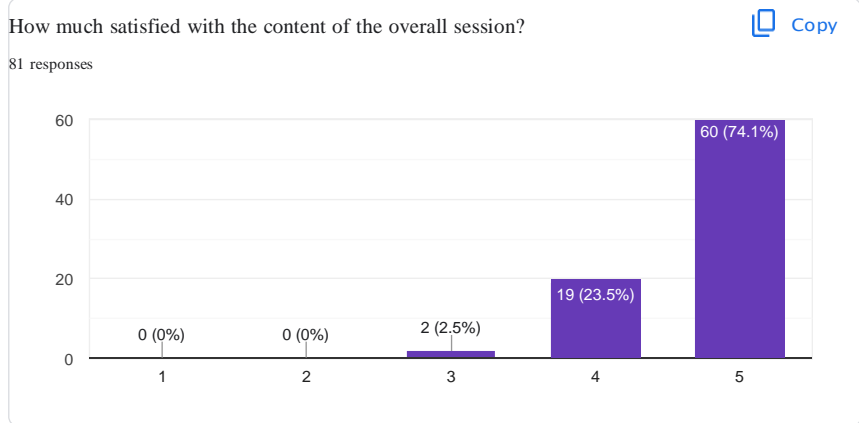
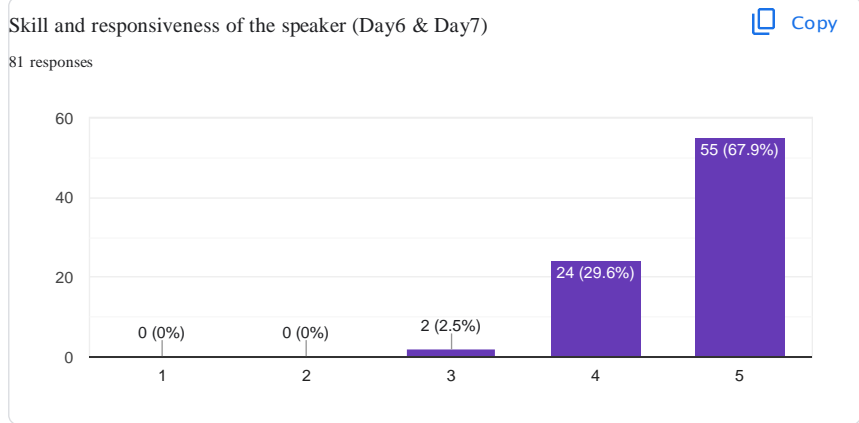
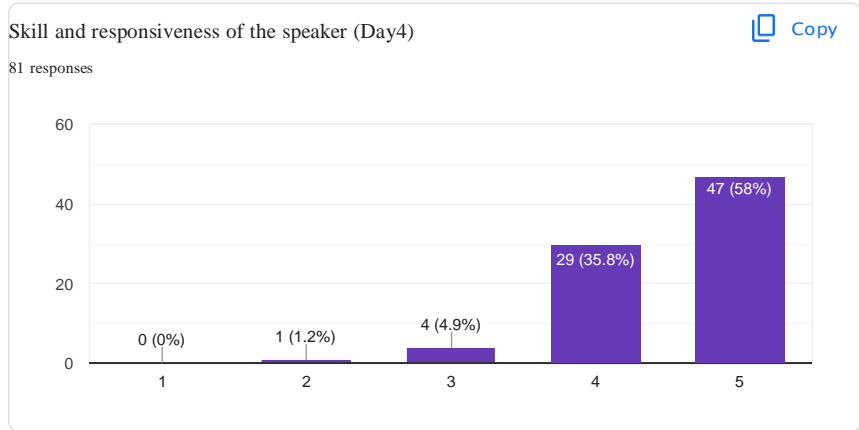
How much satisfied with the 4th Session (R-Programming handled by Dr.B.Ruban Raja)?

 Copy

81 responses







**Programme Outcome:**


On successful completion of this course the learner will have to

Understand the basics of writing and running Python, R, and Latex scripts.

Learn advanced features such as File operations, regular expressions, working with data and using the extensive functionality of Python, R and Latex programming.



Dr.R.ARUMUGAM)



Asso. Professor & Head  
Department of Mathematics  
Periyar Maniammai  
Institute of Science & Technology  
Periyar Nagar, Vallam, Thanjavur-613 403.