



ANNAPOORANA ENGINEERING COLLEGE

(An Autonomous Institution)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Accredited by NAAC with “A” Grade & Accredited by NBA (Automobile, Civil, CSE, ECE, EEE & Mechanical)
Recognized by UGC with 2(f) & 12(B) and ISO 9001:2015 Certified Institution
NH-47, Sankari Main Road, Periyaseeragapadi, Salem-636308, Tamil Nadu.
www.aecsale.edu.in



EVENT REPORT

National Level Hands-on Workshop on Data Analysis, Visualisation and Statistical Modelling using R Programming

Title of the Event	National Level Hands-on Workshop on Data Analysis, Visualisation and Statistical Modelling using R Programming
Organised by	Department of Mathematics
Date	22 September 2026 (Tuesday)
Time	10:00 a.m. – 4:45 p.m.
Venue	Dr. A. Shanmugasundaram Auditorium
Chief Guest	Dr. S. Selva Arul Pandian, Assistant Professor (Sr.), Department of Statistics, Loyola College (Autonomous), Chennai
Patron	Dr. A. Anbuechian, Principal
Convenor	Mr. M. Kumar, Head, Department of Mathematics
Coordinators	Ms. R. Banu and Mrs. V. Vennila, Assistant Professors, Department of Mathematics
Organising Secretaries	Dr. M. Sujatha, Mrs. M. Ragapriya, Mrs. Jangam Saraswathi, Mrs. T. Deepa and Mrs. V. Renuka Devi

1. Introduction

The Department of Mathematics, Annapoorana Engineering College, organised a National Level Hands-on Workshop on “Data Analysis, Visualisation and Statistical Modelling using R Programming” on 22 September 2026 (Tuesday) at the Dr. A. Shanmugasundaram Auditorium. Data is used in almost every field today, and R is one of the most popular free tools for working with it. The department planned this workshop so that participants could learn R by practising it on their own systems, and not only by listening to a lecture.

2. Objectives

- To introduce the R environment and its basic commands.
- To train participants to import, clean and analyse data using R.
- To show how graphs and charts are prepared to present data clearly.
- To give practical exposure to statistical modelling such as regression.

3. Chief Guest

The Chief Guest and resource person was Dr. S. Selva Arul Pandian (M.Sc., M.Phil., Ph.D., MBA, PGDCA), Assistant Professor (Sr.), Department of Statistics, Loyola College (Autonomous), Chennai.



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4. Programme Schedule

Time	Programme	Person In-charge
PART A: INAUGURAL SESSION		
10:00 AM	Tamil Thai Vazhthu	Audio System
10:05 AM	Lighting of Kuthuvilakku	Dignitaries on Dais
10:10 AM	Welcome Address	Mr. M. Kumar, HoD / Mathematics
10:15 AM	Presidential Address	Dr. A. Anbuchezeian, Principal
10:20 AM	Honouring the Chief Guest with Memento	Principal
10:25 AM	Introduction of Chief Guest	Mrs. V. Vennila, AP / Maths
10:30 AM	Chief Guest Inaugural Address	Dr. S. Selva Arul Pandian
PART B: TECHNICAL SESSION		
10:45 AM – 1:30 PM	Hands-on Training Session I	Resource Person
1:30 PM – 2:15 PM	Lunch Break	
2:15 PM – 4:00 PM	Hands-on Training Session II	Resource Person
PART C: VALEDICTORY SESSION		
4:00 PM	Valedictory Opening	MC
4:10 PM	Keynote Address	Ms. R. Banu, AP / Maths
4:25 PM	Participants' Feedback	Students
4:35 PM	Valedictory Address	Dr. S. Selva Arul Pandian
4:40 PM	Certificate Distribution	Chief Guest & Principal
4:45 PM	Vote of Thanks	Dr. M. Sujatha, AP / Maths

5. Proceedings

The programme began at 10:00 a.m. with the Tamil Thai Vazhthu, followed by the lighting of the Kuthuvilakku by the dignitaries. Mr. M. Kumar, Head of the Department, welcomed the gathering, and Dr. A. Anbuchezeian, Principal, delivered the presidential address and honoured the Chief Guest with a memento. Mrs. V. Vennila introduced the Chief Guest, who then gave the inaugural address.

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The technical session ran in two parts, from 10:45 a.m. to 1:30 p.m. and, after the lunch break, from 2:15 p.m. to 4:00 p.m. In these sessions the resource person introduced R and guided the participants step by step through importing and handling data, descriptive statistics, drawing graphs and building simple statistical models. The participants worked along with him and asked doubts, which were cleared on the spot.

In the valedictory session, Ms. R. Banu gave the keynote address and the students shared their feedback on the workshop. Dr. S. Selva Arul Pandian gave the valedictory address, and the certificates were distributed by the Chief Guest and the Principal. Dr. M. Sujatha proposed the vote of thanks at 4:45 p.m.

6. Outcomes

- Participants became familiar with R and its basic commands.
- Participants learnt to analyse data, draw graphs and fit simple models in R.
- The full-day hands-on practice gave them confidence to use R in projects and studies.

7. Conclusion

The workshop was practical and useful for the participants. The Department of Mathematics thanks the Chief Guest, the Principal, the faculty members and all the participants for their support in completing the programme successfully.





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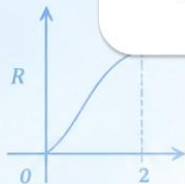
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NH-47, Sankari Main Road,
Periya Seeragapadi, Salem



$$R^2 = 1 - \frac{\sum (y - \hat{y})^2}{\sum (y - \bar{y})^2}$$

Department of Mathematics

Organises

A HANDS-ON WORKSHOP ON DATA ANALYSIS, VISUALISATION AND STATISTICAL MODELLING USING R - PROGRAMMING



Chief Guest

Dr. S. SELVA ARUL PANDIAN, M.Sc., M.Phil., Ph.D., MBA, PGDCA

Assistant Professor (Sr.) Department of Statistics
Loyola College (Autonomous)
Chennai.

Patron

Dr.A. Anbuechian

Principal

Convenor

Mr. M. Kumar

Head of the Department, Mathematics

Coordinators

Ms.R. Banu - AP/ Mathematics

Mrs.V. Vennila- AP/ Mathematics

Organising Secretaries

Dr.M. Sujatha

Mrs.M. Ragapriya

Mrs. Jangam Saraswathi

Mrs.T. Deepa

Mrs.V. Renuka Devi



22 SEPTEMBER
2026



**10:00
AM**



**Dr.A. Shanmugasundaram
Auditorium**

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Payment Details

Account Number : 937000461
IFSC Code : IDIB000V036
Bank Name : Indian Bank
Branch : Veerapandi Branch
Account Name : The Principal Annappoorana Engineering College

Payment Instruction

Transaction Receipt : Save a screenshot or PDF of your payment confirmation and upload the receipt in the online registration form.

Verification: Keep the Transaction ID handy for reference. Complete the process of registration and submit at the end.

Registration Details

Registration Link : <https://forms.gle/MPeGbfbsHAcYgQsV9>

Registration Fee : ₹200 Per Head

Registration Deadline: 20 September 2026, till 05:00 Pm

Organising Committee

Chief Patron

Mr. N.V. Chandrasekar
Chairman, Governing Body

Patron

Dr.A. Anbucchezian
Principal

Convenor

Mr. M. Kumar
Head of the Department, Mathematics

Co - Convenors

Ms.R. Banu - AP/ Mathematics
Mrs.V. Vennila - AP/ Mathematics

Organising Secretaries

Dr.M. Sujatha- ASP/ Mathematics
Mrs.M. Ragapriya- AP/ Mathematics
Mrs.Jangam Saraswathi- AP/ Mathematics
Mrs.T. Deepa- AP/ Mathematics
Mrs.V. Renuka Devi- AP/ Mathematics

Organising Committee Members

Dr.G. Selvam- Professor/ Mathematics
Mrs.Manoranjitham- AP/ Mathematics
Mrs.V. Keerthika- AP/ Mathematics



Department of Mathematics

Organises

A Hands-on Workshop on Data Analysis, Visualisation and Statistical Modelling using R - Programming

- 22 September, 2026
- 10:00 AM
- Dr.A. Shanmugasundaram Auditorium



About The Institution

Annappoorana Engineering College (AEC) was instituted in the academic year 2009 - 2010, with the Approval of Government of Tamil Nadu and AICTE, New Delhi. At Annappoorana Engineering College, we believe engineering education should be practical, engaging and student-centric.

Our industry-integrated curriculum is designed to connect classroom learning with real-world applications, supported by latest high-end laboratories that encourage hands-on exploration and innovation. Beyond academics, students actively grow through clubs and forums that nurture leadership, creativity, teamwork and technical interests. Set within a safe, inclusive and student-friendly campus, AEC provides an environment where students feel supported, inspired and confident as they prepare for successful careers and responsible citizenship.

About The Department

Mathematics is the backbone of engineering and technology, providing the essential tools for logical reasoning, problem-solving, modelling and innovation. Our department is committed to building strong mathematical foundations that enable students to excel in their respective engineering disciplines and adapt to the ever-evolving demands of industry, research and higher education.

We offer a learner-centric academic environment supported by experienced faculty, well-structured curricula and effective teaching-learning practices. Emphasis is placed on conceptual clarity, analytical thinking, application-oriented learning and interdisciplinary relevance. Through innovative pedagogy, continuous assessment and academic mentoring, we strive to nurture competent, confident and ethically responsible engineers.

The Department actively encourages research, professional development and collaborative activities such as workshops, seminars, conferences and value-added programs, fostering a culture of academic excellence and lifelong learning.

VISION OF THE DEPARTMENT

To achieve the highest standards of excellence in teaching and service and to earn regional recognition for expertise in applied mathematics by delivering quality mathematical education that effectively supports engineering learning, innovation and professional competence.

MISSION OF THE DEPARTMENT

- To provide quality teaching in Engineering Mathematics that builds strong analytical, logical and problem-solving skills required for engineering education and practice.
- To integrate mathematical theory with engineering applications using innovative and outcome-based teaching-learning practices.
- To inculcate professional ethics, teamwork, commitment, and human values, fostering lifelong learning and societal responsibility.

Contact email id
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Contact Number:

Mr.M.Kumar : +91 75028 04323
Mrs.M.Ragapriya : +91 83441 67982
Mrs.T.Deepa : +91 96887 72811

About The Workshop

This workshop offers participants practical, hands-on training in data analysis using R Programming – from the basics of R and R Studio to advanced statistical modelling. Working with real-time datasets, participants will learn to clean and manipulate data, conduct exploratory data analysis, create compelling visualisations with ggplot2 and apply core statistical techniques including correlation, regression, hypothesis testing and ANOVA. Designed for students, researchers and professionals, the sessions blend theory with applied practice to build skills directly relevant to academic research and industry data analytics.

KEY TAKEAWAYS:

- Hands-on proficiency in R and R Studio.
- Skills in data cleaning, wrangling and EDA.
- Ability to create publication-quality visualisations.
- Practical understanding of statistical modelling techniques.



Chief Guest:
Dr. S. SELVA ARUL PANDIAN M.Sc., M.Phil., Ph.D., MBA, PGDCA
Assistant Professor (Sr.) Department of Statistics
Loyola College (Autonomous)
Chennai - 600 032.

PARTICIPANTS

UG Students, PG Students, Research Scholars & Faculty Members

Note:

Lunch, Kit, and Participation Certificates will be provided for all Participants

