



TECHNO INDIA
UNIVERSITY
TRIPURA

NATIONAL WORKSHOP

on

R Programming and Statistical Data Analysis for Research Applications

"Empowering Research Through Data-Driven Statistical Computing"

DATE : 23 – 27 FEBRUARY, 2026

Department of Microbiology and Biotechnology
School of Health Sciences and Translational Research
Techno India University, Tripura
Maheshkhola, Anandanagar,
Tripura West – 799004, India

Mode of Conduct: Hybrid mode



About the Workshop

In the era of data-driven biological sciences, the ability to manage, analyze, visualize and interpret complex datasets has become an essential skill for students, researchers and faculty members. R programming has emerged as one of the most powerful and widely used open-source tools for statistical computing and graphical representation in biological, environmental, medical research and social science research.

This **Workshop on R Programming and Statistical Data Analysis** is designed to provide a **progressive, structured and hands-on learning experience**, starting from basic R programming to advanced multivariate statistical techniques. The workshop integrates theoretical understanding with practical applications relevant to research applications.

Workshop Highlights

- Hands-on offline training
- Real research datasets
- Step-by-step statistical analysis
- Expert guidance from statisticians
- Certification upon completion



Organizing committee & resource persons

Chief Patron

Prof. Satyam Roychowdhury
*Honourable Chancellor
Techno India University, Tripura
Co-founder & Managing Director
Techno India Group*

Patron

Prof. (Dr.) Ratan Kumar Saha
*Honourable Vice-Chancellor
Techno India University, Tripura*

Organizing Secretary

Dr. Indranil Das
*Assistant Professor
Department of Microbiology and Biotechnology
Techno India University, Tripura*

Joint Secretary

Dr. Rajat Nath
*Assistant Professor
Department of Microbiology and Biotechnology
Techno India University, Tripura*

Convenor

Dr. Shukdeb Acharjee
*Assistant Professor
Department of Microbiology and Biotechnology
Techno India University, Tripura*

Co-Convenors

- Dr. Puja Rani Saha
- Dr. Lovely Rahaman
- Dr. Biraj Sarkar
- Mr. Indranil Modak

Organizing Committee Members

- Mr. Animesh Chowdhury
- Dr. Priyanka Bhowmik
- Dr. Animesh Bhattacharjee
- Mr. Agnibesh Chakrabarti
- Mr. Abhijit Bhattacharjee
- Dr. Debasish Debberma
- Dr. Stabak Roy
- Dr. Pinku Chandra Nath

Organizing Committee Members

- All Head of the Department, Techno India University, Tripura
- Faculty members, School of Health Sciences and Translational Research
- Admission Committee and IQAC, Techno India University, Tripura

Advisors

- Prof. (Dr.) Ajay Krishna Saha, Dean of Academic Affairs
- Prof. (Dr.) Dilip Sarkar, Dean, School of Humanities & Social Sciences
- Prof. (Dr.) Ranjan Kumar Mishra, Dean, School of Law
- Dr. Shiladitya Munshi, Dean (i/c), School of Engineering and Architecture
- Dr. Suman Kalyan Nath, Dean (i/c), SoHSTR
- Mr. Sashadhar Chanda, Finance Officer
- Mr. Somnath Roy, Registrar (i/c)

Resource Persons

Prof. Dibyojyoti Bhattacharjee

Professor & Head

Department of Statistics

Assam University, Silchar, Assam

Dr. Samrat Hore

Assistant Professor

Department of Statistics

Tripura University, Tripura





Workshop structure, objectives & outcomes

Workshop structure

23 February, 2026

Fundamentals of R

Basic Data Visualization and Descriptive Statistics

Day
1

24 February, 2026

Advanced Graphics and Working with Frequency Tables

Correlation and Regression

Day
2

25 February, 2026

Multiple Regressions

Survival Analysis and Propensity Score Matching

Day
3

26 February, 2026

Test of Significance and Parametric Tests

Analysis of Variance (One-way and Two-way)

Day
4

27 February, 2026

Non-Linear Regression and Model Comparison

Binary Logistic Regression

Day
5

Objectives of the Workshop

- To develop foundational to advanced skills in R programming
- To strengthen statistical reasoning in biological research
- To enhance data visualization and interpretation skills
- To promote reproducible research practices
- To bridge the gap between statistics and biological applications

Expected Outcomes

- ✓ Improved proficiency in R programming
- ✓ Ability to perform statistical analysis independently
- ✓ Enhanced research data interpretation skills
- ✓ Increased confidence in handling complex datasets
- ✓ Academic and research skill enrichment



Target Participants

- Under Graduate Students
- Research Scholars
- Post Graduate Students
- Faculty Members

Payment Structure:

	Techno India Knowledge Campus	Other Colleges/Universities
UG & PG	1000/-	1500/-
PhD & Faculty	1500/-	1500/-

Payment details

A/C Name : The Techno India
University, Tripura
Bank : ICICI Bank Ltd.
A/C No. : 721105000434
IFSC Code : ICIC0007211

SCAN QR TO PAY



Click on the LINK or SCAN the QR to Register:

<https://forms.gle/PaeoDEWB22cznsLc8>

Registration Deadline: Till 20th February, 2026 Midnight



How to Register for the Workshop:

Step 1: Access the Registration Form



Click on the Google Form link provided in the brochure, OR
Scan the QR code using your mobile device to open the registration form.

Step 2: Make the Registration Payment



Pay the registration fee using QR or the bank account details mentioned above.
Ensure that the payment is completed successfully.

Step 3: Note the Transaction Details



Carefully note down the transaction number / transaction ID / reference number generated after payment.

Step 4: Save Payment Proof



Take a clear screenshot of the payment confirmation page showing the transaction details.
Save the image in JPG or JPEG format (file size should be within 10 MB).

Step 5: Fill in the Google Form



Open the Google Form and enter all required details accurately.
In the designated field, enter the transaction number / ID exactly as shown in your payment receipt.

Step 6: Upload Payment Screenshot



Upload the payment confirmation screenshot (JPG/JPEG, ≤10 MB) in the specified upload section of the form.

Step 7: Submit the Form

Review all entered details carefully.
Click on Submit to complete your registration.

Dr. Indranil Das

Assistant Professor

Organizing Secretary

Department of Microbiology and Biotechnology

Techno India University, Tripura

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Accommodation Note:

Registration Fee does not include accommodation facility. Accommodation for outstation participants can be arranged upon prior request at nearby Hotels / Hostels on payment basis as per requirements and availability.

For accommodation-related queries, please reach out via mobile or WhatsApp at the number provided below.

Contact / WhatsApp: +91-9508395488