



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



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

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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

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- **Dr. Lovely Rahaman**
- **Dr. Biraj Sarkar**
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- **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
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- **Dr. Suman Kalyan Nath**, Dean (i/c), SoHSTR
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- **Mr. Somnath Roy**, Registrar (i/c)

Resource Persons

Prof. Dibyojoyti 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 University, Tripura	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>

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

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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