

## Registration Form

Name of Applicant (first, last):.....  
.....  
Fathers Name:.....  
.....  
Mothers Name:.....  
Date of Birth (DD/MM/YY):.....  
Gender:.....  
Category(General/SC/ST):.....  
Designation:.....  
Highest Qualification:.....  
Name and Address of the Institute/ Organization:.....  
.....  
City/town:.....  
Postal Address:.....  
City/town:.....  
Email:.....  
Landline Number (with STD code):.....  
Mobile Number:.....  
Do you need accommodation? (Yes/No):.....  
Transaction ID:.....  
Transaction Date: .....

Affix passport  
size  
photograph

Issuing Bank.....  
Signature of the Applicant: .....

I hereby agree to relieve Mr./ Ms./ Dr.....  
in case he/she is selected to attend the programme.  
Signature and Seal of the Forwarding Authority.

Name .....

Designation.....

### Note:

- 1) The Faculty/Staff are requested to submit the NOC from respective department before attending the session.
- 2) The Faculty member belonging to SC/ST Category need to carry caste Certificate(both in original & photocopy).
- 3) The participant need to carry the Institute/Organization valid Identity Card (Both in Original & Photocopy).
- 4) Hostel facility is available on paid basis. For details please contact :8730909186

**Programme Duration**  
**40 Hrs**

## Course Coordinators from Academy

- **Prof. Ratnajit Bhattacharjee**  
*Principal Investigator, E&ICT Academy, IIT Guwahati.*
- **Dr. Gaurav Trivedi**  
*Co-Principal Investigator, E&ICT Academy, IIT Guwahati.*

## Coordinator from Tripura University

- **Samrat Hore,**  
*Coordinator & Assistant Professor,  
Department of Statistics, Tripura University  
Mob : 8730909186  
Office : 0381-237-9479*

## How to Reach Tripura University

Tripura is well connected with Silchar, Shillong and Guwahati by road.  
Agartala , the state capital of Tripura, is also directly connected with Guwahati, Kolkata, Delhi, Chennai by Air.  
Railway communication is also available between Kolkata, Guwahati , Bangalore, New Delhi and Agartala.  
Tripura University is situated about 5 km away from the Agartala Rail station and 20km away from Agartala Airport.

## Registration Fee

**Registration Fee (Snacks and Lunch )**  
**Rs. 2,950/- for Faculty, Lab Technicians and Project Staff.**  
**Rs. 1,475/- for Faculty members belonging to ST/SC category.**  
**Rs. 5,900/- for Industry Personnel, Student & Research scholar (Subjected to Availability of Seat).**  
**Mode of Payment: Online Only (RTGS/NEFT)**

No TA DA will be provided to the participants



An Initiative of  
**Ministry of Electronics & Information Technology  
(MeitY), Government of India**



**Electronics & ICT Academy  
IIT Guwahati, Assam**



**Data Analytics using R Programming  
(31 July-04 August, 2018)**



**Organized with support from**



**Tripura University**



**Course Date 31 July – 04 Aug, 2018**  
**Last Date of Registration: 15.07.2018**  
*(Online Registration Link will be open from 15.06.2018)*  
**Venue: Dept. of Statistics, Tripura University**

## Objective of the Course

R has its own challenges. It is not only important to learn to code in R but to also know the different statistical theories behind the techniques. This course builds a foundation for R by teaching the following:

- The theories and concept behind the technique.
- The way these techniques need to be applied in R.
- Interpreting and drawing conclusions from the outcome.

This course will teach you different statistical theories as well as provide hands on training to carry out different analysis using R.

The programme will focus on practical aspects and include examples which are relevant to the current industrial requirements.

## Assignments & Project

1. Assignments will be of the following type:

- MCQ based questionnaire.
- Programming Assignments (Problem statement will be provided.)

2. At the end of the course “Project” will be assigned to the participants which will be based on the Practical Case Studies.

## Contact Details

**Project Manager,**

**E&ICT Academy, IIT Guwahati**

**Email:** [eictacad@iitg.ernet.in](mailto:eictacad@iitg.ernet.in), [eictacad@gmail.com](mailto:eictacad@gmail.com)

[eictinfo.iitg@gmail.com](mailto:eictinfo.iitg@gmail.com)

**Phone No:** +91- 7086502139,

+91-3612583009/3182/2536/2503

(Working Hours 9:30 am to 5:30 pm)

**Follow us on:** [www.facebook.com/eictacadguwahati/](https://www.facebook.com/eictacadguwahati/)



## For Online Transfer

**Bank Name: State Bank of India**

**Account Name: IIT Guwahati R and D E and ICT Academy**

**Account No.: 36071160089**

**IFSC Code: SBIN0014262**

**Bank Name: State Bank of India**

**Bank Address: IIT Guwahati, GHY- 39.**

## Course Outcome

The participants will be given a thorough understanding of the following topics:

- Introduction to R
- Data Structures
- Graphical Analysis
- Frequencies
- Descriptive Statistics
- Comparing Populations
- Relationship Between Variables
- Time Series Analysis
- Decision Tree and Neural Network

## Hands-on Session

The Hands- on session will include the following:

- Installing R, commands & syntax, packages and libraries, workspace in R.
- Introduction to vectors, matrices, arrays, list, factors, data frames, data import & export & data types.
- Creating simple graph, pie diagram, barplot, histogram, modifying axis of graph.
- Frequency distribution & their graphical presentation.
- Measures of central tendencies, position, dispersion, distribution.
- Hypothesis testing, Chi square test, one way ANOVA .
- One sample and paired sample test.
- Correlation & regression.
- Time series data & their graphical presentation.
- Building C5 & CART decision tree.
- Building Neural network

## Who Can Attend

- Faculties, Research scholars and Students looking to expand their knowledge in the area of statistical data analysis, Big Data Analysis, and Graphical analysis.
- This can also be fruitful for management streams, social sciences and other non-engineering streams.

**For details of the programme and course contents etc., please log on to Electronics and ICT Academy website:**

<http://eict.iitg.ernet.in/>

## About E&ICT Academy

Electronics and ICT Academy is an initiative of Ministry of Electronics & Information Technology (MeitY) Ministry of Communications and IT, Govt. of India for Faculty/ Research Scholar Development Programme.

Academy has planned short term training programmes on fundamental and advanced topics in IT, Electronics & Communication, Product Design, Manufacturing with hands on training and project work using latest software tools and systems.

In addition, the Academy will conduct specialized/customized training programmes and research promotion workshops for corporate sector & educational institutions.

## About Tripura University

The inception of Tripura University can be traced back to the establishment of UGC recognised Post-graduate Centre of the University of Calcutta at Maharaja Bir Bikram College in the year 1976. In 1987, Tripura University formally came into being as a State University on October 2. In the year 2007, it was converted into a Central University. The University campus is located about 18 km away from the Agartala Airport and 5 km from Agartala Railway Station towards the south. Tripura University is the only Central University by act of the Parliament in the state of Tripura and ranked 4th position in Eastern and 43rd position in all India according to India Today – Nielsen University Ranking Survey 2014. It is also accredited by NAAC with ‘B’ Grade.

## Address of Tripura University

**Tripura University ( A Central University)  
Suryamaninagar, Tripura (West)  
Pin-799022, Tripura**