



An Initiative of Ministry of Electronics & Information Technology (MeitY), Government of India.
Electronics & ICT Academy IIT, Guwahati, Assam



A Three day workshop on

Data Analytics using R Programming

Organized with support from ASBM and Predictive Analysis

(11 - 13 July, 2018)

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.



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

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

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

For more details or any queries please contact
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IMPORTANT DATES:

Course Date: 11 – 13 July, 2018
Last Date of Registration: 06.07.2018
(Online Registration Link will be open from 11.06.2018)
Venue: ASBM, Bhubaneswar, Odisha
Website: www.asbm.ac.in

REGISTRATION FEE DETAILS:

Registration Fee (Snacks and Lunch)
Rs. 1,000/- for Faculty, Lab Technicians and Project Staff
Rs. 1,500/- for Industry Personnel, Research Scholars and Students.
Mode of Payment: Online Only (RTGS/NEFT)