

Electronics & ICT Academy IIT Roorkee

FACULTY DEVELOPMENT PROGRAM ON

"Data Analytics with R"



In Association with

Centre for Development of Advanced Computing, Mohali



Mar 06, 2018 - Mar 11, 2018

Experts from Academia/Industry

Guest Lecture Kovid Academy
Dr. Partha Pratim Roy Industry Partner
IIT Roorke

Supported by

Ministry of Electronics & Information Technology
Government of India



Venue

C-DAC, Sector-72 Mohali
Punjab

Why Data Analytics with R

Data analysis has become an essential part of everyday life and emerged as a critical component of modern business intelligence in recent years. Data scientists have a number of options to analyze data using statistical methods. One of the most convenient and powerful methods is to use the R programming language. This course will help you to learn how to tackle data analysis problems using the powerful open source language R. Participants will be able to understand how data is created, stored, accessed, and how the organization works with data & creates the environment in which analytics can flourish. What you learn in this course will give you a strong foundation in all the areas that support analytics. Participants will also learn how to compute various statistical measures, create meaningful data visualizations, R models to predict expected future outcomes.

Objective of the Course

- Introduction of Data analytics, Machine learning and its real-life applications.
- Understanding of Statistics and R programming which will help the participants to carry out various analytical studies.

Benefits and Outcomes of the Course

- Learn the importance of data.
- Learn the various aspects of data handling and how information can be extracted from data.
- Carry out predictions - how to predict, how to analyse predicted values, discuss the importance of variables in a dataset.
- Industries and domain where analytics are used extensively.
- Guide/Mentor the students to seek job opportunities in Data analyst fields.

Focus Areas

- Introduction to Machine Learning, Data Analytics, and Statistics.
- Introduction to R, Datatypes, Vectors, Matrix List, Functions & loops, Dataframe, Statistical analysis.
- Regression, Simple linear regression, Multiple linear regression, Logistic regression.
- Trees, Decision tree, Random Forests.
- Clustering, K-nearest neighbor (Knn), Support Vector Machines (SVM).
- Assignment/Mini project based on Data analytics.

Program Features

- The program is split into lectures and labs/hands-on sessions.
- Hands-on experience on basic and advanced-level topics.
- Interaction & learning with experts from academia & industry.
- Certificates to participants by E&ICT Academy IIT Roorkee.

Coordinators

IIT Roorkee

- Dr. Sanjeev Manhas, PI, E&ICT Academy C-DAC Mohali
- Mr. Pradeep Mishra, Sr. Librarian, 7986919096
- Dr. Sanjay Sood, Joint Director, 9988883660



Data analytics
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Who Can Attend ?

Program is open to faculty members/research scholars/PG students from colleges/universities, and industry personnel working in the concerned/allied discipline.

Registration Fee

Faculty members: ₹ 3,000/-

Research scholars: ₹ 3,000/-

Persons from Industry: ₹ 3,500/-

Payment Details

DD in favor of "Dean SRIC IIT Roorkee" payable at Roorkee
"OR"

Make Online Payment by NEFT/RTGS on given detail

Account Name: Research Project, IIT Roorkee

Account Number: 33012172097

IFSC code: SBIN0001069

How to Apply

Step 1: Make Payment

Step 2: Participants may fill registration form through Academy website (<http://eict.iitr.ac.in>).
OR

Step 2: Send a duly filled-in registration form along with Demand Draft to Academy address.

Mr. Prateek Sharma, EICT Academy, ECE Department, IIT Roorkee-247667

Important Dates



**Last Date For Online
Registration:
2nd Mar 2018**

**Last Date For Receiving
Application: 5th Mar 2018**



EICT Academy IITR

Electronics and ICT Academy (E&ICT) at IIT Roorkee (funded by Ministry of Electronics and Information Technology) aims to enrich and upgrade teaching and research competences of engineering faculties of institutes/colleges by conducting courses and workshops in fundamentals as well as emerging areas of E&ICT and enabled areas. The programs are conducted by well-known industry partners, resource persons from leading academia and experts from renowned R&D organizations.



Activities of the Academy

- Specialized training on basic and advanced level topics with hands-on experience in the emerging areas of Electronics & ICT.
- Setup the activity centers to conduct FDPs locally at institutes/colleges.
- Curriculum development for the industry.
- Continuing Education Programme for students/working professionals.
- Design, develop and delivery of specialized modules for specific research areas in industry.

Faculty Development Program

on

Data Analytics with R

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REGISTRATION FORM

Applicant Name _____

Gender: _____

Category (GEN/OBC/SC/ST): _____

Designation: _____

Name and Address of the
Organizatio/Institute: _____

City/Town: _____

Email: _____

Phone Number: _____

Do you need Accommodation?
(Yes/No): _____

DD Number: _____

Date: _____

Issuing Bank: _____

Payable at: _____

Signature of the Applicant

Contact Us

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