

Electronics & ICT Academy

IIT Roorkee

One Week Short Course/FDP
on

"Machine Learning and Data
Analytics using Python"

Recognized by AICTE at par with
QIP for recognition/credits



September 09-13, 2019

Experts from Academia/Industry

- Dr. Partha Pratim Roy, IIT Roorkee
- Dr. Balasubramanian, IIT Roorkee
- Dr. Sanjeev Kumar, IIT Roorkee
- Dr. Raksha Sharma, IIT Roorkee
- Dr. Gaurav Dixit, IIT Roorkee
- Dr. A. Ramesh, IIT Roorkee
- Dr. Sonali Agarwal, IIT Allahabad
- Dr. Sangheeta Roy, TCS
- Mr. Tanmoy Das, IBM Kolkata

Certificates to participants by
E&ICT Academy IIT Roorkee

Supported by

Ministry of Electronics & Information
Technology Government of India



Venue

E&ICT Academy(N-321), ECE
Department, Indian Institute of
Technology Roorkee

Why Data Analytics with Python?

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 Python programming language. This course will help you to learn how to tackle data analysis problems using the Python. Participants will be able to understand how data is created, stored, accessed. 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, Python models to predict expected future outcomes.

Objective of the Course

- Introduction of data analytics and its real-life applications.
- Understanding of statistics and Python 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 analyze 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 Python, Data Preprocessing, Measures of Similarity and Dissimilarity, Visualization.
- Association Analysis: Apriori Algorithm, Rule Generation, FP-Growth.
- Classification, Regression Analysis, Decision Tree, Ensemble Learning.
- Data Analytics with Deep Learning.
- 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.



Coordinator

- Dr. Sanjeev Manhas PI, E&ICT Academy IIT Roorkee
- Dr. P.P. Roy, Local Coordinator, E&ICT Academy, IIT Roorkee
- Dr. Balasubramanian, Local Coordinator, E&ICT Academy, IIT Roorkee

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: ₹ 1000/-

Research scholars: ₹ 3,000/-

Persons from Industry: ₹ 3,000/-

How to make payment

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

Online: (<https://www.onlinesbi.com/prelogin/icollecthome.htm?corpID=365641>)

Read the instruction for payment before filling the online registration form.

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
Registration :
September 02, 2019**

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 one-week short course/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.

One Week Short Course/FDP on "Machine Learning and Data Analytics using Python"



Dates: Sept.09-13, 2019

REGISTRATION FORM

Applicant Name _____

Gender: _____

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

Designation: _____

Name and Address of the
Organization/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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