

Course Objective

The FDP on Data Science using Python will introduce the learner to the basics of the python programming environment, including fundamental python programming techniques such as reading and manipulating csv files, and the NumPy library. The course will introduce data manipulation and cleaning techniques using the popular python Pandas data science library and introduce the abstraction of the Series and DataFrame as the central data structures for data analysis. The data visualization techniques using Matplotlib will be introduced in both theory and hands-on sessions. By the end of this course, participants will be able to take tabular data, clean it, manipulate it, and run basic inferential statistical analyses.

Course Outcome

- Learn the importance of data
- Learn various aspects of data analytics
- Understand how information can be extracted from data
- Gain skill in handling raw data using Python
- Mentor/Guide the students to seek opportunities in Data Analytics

Assignment and Project

- Everyday programming assignment will be provided based on Hands-on session.
- On day 7 of the programme a project will be provided to the participants to work on.

Who Can Attend?

- Faculty and PhD Research Scholar

Contact Details

Project Manager,

E&ICT Academy, IIT Guwahati

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For details of the programme and course contents etc., please log on to Electronics and ICT Academy website: <http://eict.iitg.ac.in/>

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 University of Kashmir

- Dr. Fasel Qadir**,
Sr. Assistant Professor and Coordinator,
Department of Computer Sciences,
North Campus, University of Kashmir, Srinagar.
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Pre-requisites

- Anaconda 3+ Software.
- Laptop with Min 4GB RAM, 64 bit OS, with Windows 8+ or Ubuntu. (**Attending online lectures from mobile phone is not allowed**)
- Good Speed Internet connection for installing packages and hands-on sessions.

How to Apply ?

Online – The participants may log on to the Electronics & ICT Academy, IIT Guwahati website and fill the Google doc form. Website link: http://eict.iitg.ac.in/faculty_development.html
Google Doc link : <https://forms.gle/gNYEkueKYt25stqF9>

Registration Fee

Rs. 1250/- (Inclusive of GST) for Faculty, PhD Research Scholar

Mode of Payment: Online Only (NEFT/RTGS)

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.

Contact Hours for the Course

40 Hrs (Theory, Activities, Practices Session & Evaluation)



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



Electronics & ICT Academy
IIT Guwahati, Assam



Online

01 Week Faculty Development Programme

Data Science using Python
Programming
(02 - 09 November, 2020)



Organized in Association with

Department of Computer Sciences
NORTH CAMPUS

University of Kashmir



&

Support from
Probyto



Course Date: 02 - 09 November, 2020

Last Date of Registration: 26/10/2020

(Online Registration Link will be open from 20/09/2020)

Per Day Timing: 10:00 am - 01:00 pm & 03:00 pm – 05:00 pm