

## 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

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

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

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

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.  
Email ID: [faselqadir@gmail.com](mailto:faselqadir@gmail.com)  
Phone No.: +91 9149966875.

## 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](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



## Electronics & ICT Academy IIT Guwahati

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

### Important Instructions for filling the Online Registration Form

Please read instructions carefully before filling the form

1. Please provide your Gmail address
2. Please provide WhatsApp Contact Number (if available) [Important instructions regarding the FDP will be shared in WhatsApp]
3. Please keep the following documents ready for upload (*Maximum allowed file size upto 1 MB*)
  - Passport size Photograph (Image / PDF File Only)
  - Valid Institutional Photo ID Card (Image / PDF File Only)
  - NEFT/ RTGS / IMPS Transaction Receipt (Image / PDF File Only)
  - Caste Certificate applicable in case of SC/ST participants (Image / PDF File Only)

Please name the files to be uploaded as "**FirstName\_DocumentType.extension**"

For example: If your name is **Ajay Mishra**, then the files to be uploaded should have file names as:

- "ajay\_photo.jpg" or "ajay\_photo.pdf": *Recent Passport Size Photograph (Image / PDF Only)*
- "ajay\_IDproof.jpg" or "ajay\_IDproof.pdf": *Valid Institute/Organization ID (Image / PDF File Only)*
- "ajay\_receipt.jpg" or "ajay\_receipt.pdf": *Transaction Receipt (Image / PDF File Only)*
- "ajay\_caste.jpg" or "ajay\_caste.pdf": *Caste Certificate [applicable to participants belonging to SC/ST category]*

*Note: Registration form missing any of the above mentioned documents will be summarily rejected.*

4. Before filling the registration form, kindly make the payment in the below mentioned account details and keep the copy of the transaction receipt for uploading.

***For Online Transfer, Mode of Payment: Online Only (NEFT/RTGS/IMPS)***

Bank Name: State Bank of India

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