Registration Form

Name of the Applicant (first, last):
…….
……

Affix passport size photograph

Gender: …….. ……..…

Designation: ……...

Highest Qualification: …….

Name and Address of the Organization/Institute:……
……..

Category : (GEN/OBC/SC/ST/Others)…….

City/town:……..

Email:…….....

Phone Number:……..

Mobile Number:…….....

Do you need accommodation?

(Yes/No):……..

Transaction ID (Applicable for Online Transaction):……

Signature of the Applicant:……...

Signature and Seal of the Forwarding Authority

Name .....

Designation .....

Note: 1) The Faculty/Staff are requested to submit the NOC from respective department before attending the session.

2) The Faculty/Staff are requested to submit their Caste Certificate in case of OBC/SC/ST.

Registration Fee

Registration Fee (Including Course Material, Snacks and Lunch)

Rs. 2,500/- for Faculty, Lab Technicians and Project Staff ,

Rs. 5,000/- for Industry Personnel, Research Scholars and Students.

Rs. 1,250 for ST/SC Faculty.

Mode of Payment: Online Only (RTGS/NEFT)

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.

Course Coordinators from Academy

- **Prof. Ratnajit Bhattacharjee**
  Principal Investigator,
  E&ICT Academy, IIT Guwahati.
- **Prof. Rohit Sinha**
  Co-Principal Investigator,
  E&ICT Academy, IIT Guwahati.
- **Dr. Gaurav Trivedi**
  Co-Principal Investigator,
  E&ICT Academy, IIT Guwahati.
- **Dr. Ferdous Ahmed**
  Course-Coordinator , IIIT Guwahati
  E&ICT Academy,IIT Guwahati

Expert from Industry

- **Mr. Debadyuti Roy Chowdhury**
  Head- Data Sciences Practice, Kovid Labs.

How to Reach IIIT Guwahati

The Institute is operating from temporary premises at the Assam Textile Institute campus, in the heart of Guwahati city and is well connected to other parts of the country by road, rail or air. There are direct air services from/to Mumbai, New Delhi, Bangalore and Kolkata with connectivity to all major cities in the country and direct train services from/to all the metropolis and other major cities. Air India, Jet Airways, Air Asia, IndiGo, SpiceJet, GoAir and Vistara operate regular flights to and from Guwahati.

The institute is around 1.8 km from the Guwahati Railway station and around a 50 minute drive from the airport. Pre-paid taxis are available in the airport. Taxis are available for transport within the city and can be booked online (prime cabs, swiss cabs, ola, etc.). Auto-rickshaws are available but there are no meters and fares have to be negotiated beforehand. There is also an extensive network of city buses.

Institute address of IIIT Guwahati
Indian Institute of Information TechnologyAssamTextile Institute Campus
Ambari G. N. Bordoloi Road
Guwahati 781001

सत्यमेव जयते

An Initiative of Department of Electronics & Information Technology (DeitY), Ministry of Communications and IT, Government of India

Electronics & ICT Academy
IIT Guwahati, Assam

A Faculty Development Programme on

Data Analytics with Python

Organized with support from Kovid Academy

Applications are invited from Faculty Members/ Research Scholars/PG & UG Students/Lab Technicians/Project Staffs from Universities/Colleges/Schools & Industry Personnel working in the concerned discipline can attend the Faculty Development Programme on

"Data Analytics with Python"

Course Date: 13 - 24 May, 2017
Last Date of Registration: 10.05.2017
(Online Registration Link will be open from 12.04.2017)
Venue: IIIT Guwahati, Ambari.

Objective of the Course

Course Objective is to provide basic knowledge in Analytics with lab sessions using Python Programming. The programme will focus on practical aspects and include examples which are relevant to the current industry requirements and practical case studies.

Practical Case studies will include the following:

- Titanic - Machine Learning For Disaster.
- MNIST Hand Written Digit Classification.
- Bike sharing demand forecasting.
- Housing prices prediction.
- Retail sales forecasting.
- Driver Attentiveness Measure.

Course Programme

Faculty Development Programme is split into three parts:

- Lectures.
- Labs/Hands-on sessions daily using Python Programming.
- Assignments and Project.

Who Can Attend

Programme is open to Faculty Members, Research Scholars, PG & UG Students, Lab Technicians and Project Staffs from Universities , Colleges & Schools. Industry Personnel working in the concerned/allied discipline may also apply.

How to Apply

Online – The participants may log on to the E&ICT Academy, IIT Guwahati website: http://eictacad@iitg.ernet.in and fill up the google doc application form.

Through Email – Scanned copy of the filled in application form duly endorsed by the, forwarding authority is to be mailed at E&ICT Academy's email id (eictacad@gmail.com, eictacad@iitg.ernet.in). Application format given in this brochure may also be downloaded from the website.

Contact Hours for the Course
80 Hrs (Theory, Hands-on & Tutorial)

Course Outcome

The participants will be given a thorough understanding of the following topics:

- Introduction to Python Programming.
- Data Structures in Python.
- Determining what Data Science is all about and the role that Python plays in it.
- Identifying the phases of Data Analytics workflow.
- Statistics for Data Science.
- Using the Python libraries like Pandas, NumPy, SciPy, Scikit-learn, and Matplotlib.
- Data Migration, Munging, Aggregation & Visualisation.
- Linear Regression.
- Logistic Regression.
- Unsupervised Learning.
- Random Forest.
- Support Vector Machines.
- Implementing the Data Science workflows.
- Machine Learning algorithms.
- Integrating the Python code with Hadoop and Spark.

Assignment and Project

1. Assignments will be of the following type:
   - MCQ based questionnaire.
   - Programming Assignments (Problem statement will be provided.)
2. At the end of the course "Project" will be assigned to the participants which will be based on the Practical Case Studies.

Preferred Pre- Requisites for the Course

The preferred Pre-Requisites for the course are:

- Basic familiarity with the computing and programming concepts.
- Basic knowledge of Mathematical concepts.
- Basic knowledge of Statistical concepts.

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

Hands-on Session

The Hands- on session will include the following:

- Loading data into various structures, applying functions on data.
- Practical demonstration on visualizing data, variation of house prices, factors affecting body weight.
- Boston Housing Prices Prediction.
- Practicals on visualization of Boston Housing and Titanic Survival Dataset.
- Practical on Bike Sharing Demand Forecasting.
- Predicting retail sales drivers from Walmart sales data.
- Detect breast cancer from WI diagnostic dataset.
- Titanic Survival Prediction.
- Iris species classification and MNIST handwriting recognition.
- Expedia Travel Recommendation, MovieLens Movie Recommendation

About E&ICT Academy

Electronics and ICT Academy is an initiative of Department of Electronics & Information Technology (DeitY) Ministry of Communications and IT, Govt. of India for Faculty/ Research Scholar Development Programme.

Academy has planned short term training programmes on fundamental and advanced topics in IT, Electronics & Communication, Product Design, Manufacturing with hands on training and project work using latest software tools and systems.

In addition, the Academy will conduct specialized/customized training programmes and research promotion workshops for corporate sector & educational institutions.

Contact Details

For more details or any queries please contact
Project Manager,
E&ICT Academy, IIT Guwahati
Email: eictacad@iitg.ernet.in, eictacad@gmail.com
Phone No: +91-3612586442
(Working Hours 9:30 am to 5:30 pm)