

Course Objective

This Course will help trainees to

- Introduction to enabling factors of ML and DL
- Working with Data, Data Preprocessing and Visualization using Python
- Gradient descent algorithm
- Regression analysis
- Deep Learning –Single and Multi-layer perceptron
- Computer vision : CNN, Object detection algorithm

Course Outcome

Upon completion, the trainees will be able to:

- Prepare and Manipulate Data with Python
- Machine learning: Supervised and Unsupervised Learning algorithms
- Deep Learning: Multi-Layer Perceptron (MLP), Convolutional Neural Networks (CNNs), Recurrent Neural Networks (RNNs), NLP applications.
- Deep learning: Computer Vision object detection algorithms

Activities & 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.

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 KITS, Guntur

- **Mr.VeeraRaghavaRao Atukuri**, *Associate Professor, Department of CSE, Contact:+91 89786 92777 Email: cloud9rags@gmail.com*

Who Can Attend?

- Faculty and PhD Research Scholar

Pre-requisites

- Prior Knowledge of programming, basics of Linear algebra, Differential calculus and probability.
- Installation of Anaconda 3.7 Software.
- Min 4GB RAM, 64 bit OS, Windows 7/8/10
- Good Speed Internet connection for installing packages and hands-on sessions.

How to Apply?

Online – The participants may log on to the E&ICT Academy, IIT Guwahati website:

http://eict.iitg.ac.in/faculty_development.html and fill up the google doc application form. The link is also provided: <https://forms.gle/pf7jytFG1qWbfTsW9>

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

Artificial Intelligence using Python
Programming
(25 - 31 May, 2020)



Organized in Association with
Department of CSE & ECE,
KKR&KSR Institute of Technology &
Sciences (KITS), Guntur



&



Support from

Digital Shark Technology

Course Date: 25 - 31 May, 2020
Last Date of Registration: 21 May 2020
(Online Registration Link will be open from 19/05/2020)
Per Day Timing: 10:00 am - 01:00 pm & 03:00 pm – 05:00 pm