



Electronics & ICT Academy IIT Guwahati, Assam



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

A Faculty Development Programme on

Deep Learning



Organized with support from Nvidia.

Applications are invited from Faculty Members/ Research
Scholars/PG & UG Students/Lab Technicians/Project Staffs
from Universities/Colleges/Schools , Industry Personnel and
MBA background to attend a Faculty Development

Programme on

“Deep Learning”

Course Date: 16-21 December 2016

Last Date of Registration: 12.12.2016

(Online Registration Link will be open from 25.11.2016)

Venue: IIT Guwahati, Assam

Supported by

Department of Electronics and Information
Technology (DeitY)

Ministry of Communications and
Information Technology,
Government of India



सत्यमेव जयते

Objective of the Course

Course Objective is to provide basic knowledge in
Deep Learning. The programme will focus on practical
aspects and include examples which are relevant to the
current industry requirements.

Course Programme

Faculty Development Programme is split into two
parts: Lectures and Labs/Hands-on sessions daily.
Course contents are as follows:

1. Deep Learning Concept.
2. Deep Learning GPU.
3. Deep Learning Task, Features, & Model.
4. Learning Algorithms.
5. Machine Learning with Data Analytics.

**Certificate with grades will be given by E&ICT
Academy, IIT Guwahati to the participants.**

Who Can Attend

Programme is open to Faculty Members, Research
Scholars, PG & UG Students, Lab Technicians and
Project Staffs from Universities , Colleges & Schools.
Industry and MBA 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
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
48 Hrs (Theory, Hands-on & Tutorial)**

Registration Form

Name of the Applicant (first, last):

.....
.....

Gender:

Designation:

Highest Qualification:

Name and Address of the Organization/Institute:

.....

City/town:.....

Email:.....

Phone Number:.....

Mobile Number:.....

Do you need accommodation?

(Yes/No):.....

DD Number:.....Date:.....

Issuing Bank:..... payable at:

Transaction ID (Applicable for Online Transaction):.....

Signature of the Applicant:.....

Signature and Seal of the Forwarding Authority

Name

Designation

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

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.

**Mode of Payment: Demand Draft in the name of
“Registrar, IIT Guwahati”**

OR

For Online Transfer

Bank Name: State Bank of India

Account Name: IIT Guwahati R&D E&ICT Academy

Account No.: 36071160089

IFSC Code: SBIN0014262

Bank Name: State Bank of India

Bank Address: IIT Guwahati, GHY- 39.

Course Outcome

The participants are expected to understand:

- How deep learning works.
- How to frame tasks into deep learning problems.
- How to use deep learning toolkits to implement the designed models.
- When and why specific deep learning techniques work for specific problems.
- How GPU is more appropriate for Deep Learning and Big Data Analytics.

Assignments and Project

The course will include:

- 5 Assignments.
- 1 group final project.
- 1 write-up report.

Preferred Pre- Requisites for the Course

- Required coding skills for Lab.
Proficiency in Python (All assignments will be in Python).
- Required Courses
 1. College Calculus.
 2. Linear Algebra.
 3. Probability.
 4. Machine Learning (preferred but optional).
 5. Statistics (preferred but optional).

Hands-on Session

The Hands- on session will include the following:

- Word Embedding.
- Sentiment Analysis.
- Natural Language Understanding.
- Language Generation.
- Game Playing.

Contact Details

For more details or any queries please contact
Course Coordinator: Feroza Haque,
IIT Guwahati
Email: eictacad@iitg.ernet.in,
eictacad@gmail.com
Phone No: +91-3612586442

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

Expert from Industry

- **Prof. S. Chickerur**
PI, GPU Education Center at KLE TECH
On behalf of Nvidia.
- **Prof. Azad Srivsuatava**
On behalf of Nvidia.

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.

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

How to reach IIT Guwahati

Indian Institute of Technology Guwahati is located just on the outskirts of the city of Guwahati and is well connected to other parts of the country by road, rail or air.

1. How to reach through Air and Rail.

There are direct air services from/to Mumbai, New Delhi 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, Jetlite, Kingfisher, IndiGo, SpiceJet and GoAir operate regular flights to and from Guwahati. For more information of trains to Guwahati please visit the Indian Railways website www.indianrail.gov.in

2. How to reach through road.

For commuting from the station to the North Guwahati campus, tata sumos and auto-rickshaws are available. IITG Bus service is available from G.N.B. road, Panbazar, near Assam Publication Board, Opposite to Hotel President, Guwahati or Don Bosco school (which is about one kilometer from Guwahati Railway Station) to IIT Guwahati Campus as per the schedule which can downloaded from the following link ,

<http://www.iitg.ac.in/aa/pages/campusmap/files/bus-timings-2010.pdf>

