



Electronics & ICT Academy IIT Roorkee



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

A Faculty Development Program on

Recent Advances in Deep Learning

In association with

**NETAJI SUBHASH ENGINEERING
COLLEGE, WEST BENGAL**

Feb 05 – Feb 14, 2025

(02:30 PM to 05:00 PM & 6:30 PM to 9:00 PM)

Register Before: Feb 03, 2025



**Venue: Hybrid Mode: ECE Dept. NETAJI
SUBHASH ENGINEERING COLLEGE, WEST
BENGAL**



Why this course ?

Deep learning has revolutionized modern AI, enabling advancements in neural networks, computer vision, NLP, and more. This FDP focuses on recent advances in deep learning, including quantum neural networks and pedagogical techniques. With expert lectures from top institutions and hands-on Python programming sessions, participants will gain cutting-edge knowledge and practical skills to tackle real-world challenges in deep learning research and applications.

Prerequisites

No experience is required, but fundamental knowledge of any programming language would be helpful.

Objectives of the course

- To understand the fundamentals and advanced concepts in deep learning.
- To explore architectures like CNN, LSTM, GRU, and quantum neural networks.
- To gain hands-on experience in Python programming for neural networks.
- To understand the optimization techniques in neural networks.
- To explore recent advancements in neural network architectures.
- To enhance teaching methodologies for deep learning concepts.

Focus Areas

- Fundamentals of deep learning and optimization techniques.
- Convolutional and deep neural network architectures.
- Quantum neural networks and their applications.
- Advanced architectures like LSTM and GRU networks.
- Hands-on Python programming for neural networks.
- Pedagogical methods for teaching deep learning.
- Industry insights on deep learning applications.

Course Features

- 40 Hours of Lectures, hands-on, and Pedagogy/Industry sessions.
- Lectures from Expert Speakers, Hands-on from industry/Academia experts.
- Access to learning material and video lectures
- Certificate by E&ICT Academy IIT Roorkee

Course Outcomes

Participants are likely to:

- Comprehensive understanding of deep learning fundamentals and advancements.
- Practical skills in implementing neural networks using Python.
- Knowledge of quantum neural networks and their emerging role in AI.
- Ability to design and optimize advanced neural network architectures.
- Insight into state-of-the-art applications of deep learning.
- Enhanced teaching approaches for deep learning topics.
- Preparedness for industry and academic challenges in AI and deep learning.



Experts from Academia/Industry

Who Should Register?

Any Interested Faculty/PhD-Scholars
UG/PG/ & Industry Persons can register

Registration Fee

Fees: ₹ 250/- Faculty/Research Scholar/
Students

₹ 500/- Industry/Others

Note: Refund will be done in case of course
cancellation only, within 20 working days

FDP Kits & Refreshment will be provided

How to make Payment

Please make the payment first using the below link
upload the payment receipt when filling out the
Google registration form

<https://eict.iitr.ac.in/instruction-for-payment/>

Conference Code: EICTIITR-FDP-25-16

Registration Link

<https://forms.gle/KWKnLRxhEn9GDs1T7>



Scan QR for
registration

Register before:
Feb 03, 2025

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Who may benefit

- Academic Faculty and Students(UG/PG)
- Government Officials.
- Working Professionals in the Industry and Startups.
- Research Scientists and Technical Staff.



This certificate can be considered in
alignment with other Quality Improvement
Programs (**QIP**) as well as **NBA** and **NAAC** for
recognition/credit.

Principal Investigator

Prof. Sanjeev Manhas
ECE Department, IIT Roorkee

Course Coordinators

- Prof. Sanjeev Manhas, IIT Roorkee
- Dr. Swagata Roy Chatterjee,
Department of ECE, Netaji Subhash
Engineering College, West Bengal

Spoke Centre Coordinators

1. Dr. Manash Chanda, Meghnad Saha
Institute of Technology, Uchhepota
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