



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

A Faculty Development Program

On
Artificial Intelligence,
Machine Learning and Deep Learning

13/1/2025 to 17/1/2025

Under the aegis of
Electronics & ICT Academy IIT Roorkee
In the collaboration with

GIET University, Gunupur (Hub)
and Ajay Binay Institute of Technology
Cuttack (Spoke)



Why this course?

The Faculty Development Program aims to enhance the knowledge and skills of faculty members in the rapidly evolving fields of Artificial Intelligence (AI), Machine Learning (ML), and Deep Learning (DL). It is designed to bridge the gap between academic teaching and practical applications of AI technologies in research and industry.

Objectives of the course

- To provide faculty members with a comprehensive understanding of the foundational concepts and principles of Artificial Intelligence (AI), Machine Learning (ML), and Deep Learning (DL).
- To familiarize faculty with the latest trends, technologies, and real-world applications of AI, ML, and DL across various industries, ensuring their teaching remains relevant to contemporary requirements.
- To empower educators with strategies for effectively integrating AI and ML topics into existing curricula, making complex concepts accessible to students.
- To foster an interdisciplinary and collaborative environment among participants, encouraging the exchange of ideas and potential partnerships for academic projects and industry collaborations.



Focus Areas

- Fundamentals of AI, ML, and DL
- Machine Learning Algorithms
- Advanced Machine Learning and Optimization
- Deep Learning Essentials
- Natural Language Processing (NLP): Text Preprocessing, Word Embeddings, and Sentiment Analysis
- Generative Adversarial Networks (GANs): Architecture and Applications
- Explainable AI (XAI): Importance and Tools
- AI for Sustainable Development: Smart Cities, Agriculture, and Climate Change
- Deploying AI Models on Cloud Platforms: AWS, Google Cloud, and Azure
- AI Ethics: Fairness, Bias, and Responsible AI
- Current Trends in AI: Edge AI, Federated Learning, and Quantum AI
- Future Directions in AI Research and Development

Prerequisites

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

Course Features

- 40 Hours of Lectures, Hands-on & 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

Who Should Register?

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

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

Registration Fee

Fees: ₹ 250/participant, non-refundable (Applicable for all)

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

How to make Payment: <https://eict.iitr.ac.in/instruction-for-payment/>

Conference Code: EICTIITR-FDP-25-02

Registration Link: <https://forms.gle/2oCqioujLWuST76n8>

Accommodation



Accommodation on a sharing basis will be provided based on the availability of guest rooms on a paid basis.

Accommodation charge: (INR 1200/day/person)
Contact - sibofromgiat@giat.edu (9437234031) for booking

Principal Investigator

Prof. Sanjeev Manhas, ECE Department, IIT Roorkee

Course Coordinators

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Course Co-coordinators

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