





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

A Faculty Development Program

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)

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 Ouality Improvement Programs (OIP) as well as NBA and NAAC for recognition/credit.



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

- provide faculty members To with comprehensive understanding of foundational concepts and principles of • Advanced Machine Learning and Optimization Artificial Intelligence (AI), Machine Learning • Deep Learning Essentials (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, • Generative Adversarial Networks (GANs): ensuring their teaching remains relevant to contemporary requirements.
- effectively integrating AI and ML topics into existing curricula, making complex concepts • Deploying AI Models on Cloud Platforms: accessible to students.
- To foster an interdisciplinary and collaborative AI Ethics: Fairness, Bias, and Responsible AI environment among participants, encouraging • Current Trends in AI: Edge AI, Federated the exchange of ideas and potential partnerships for academic projects and • Future Directions in AI Research and industry collaborations.

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/2oCqioujL

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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 - sibofromgiet@giet.edu (9437234031) for booking

Principal Investigator

Prof. Sanjeev Manhas, ECE Department, IIT Roorkee

Course Coordinators

Dr. Raghvendra Kumar, CSE Department **GIET University**

Course Co-coordinators

Mr. Sudheer Babu.P, CSE Department, GIET University Mr. G V S Narayana, CSE Department, GIET University



- **Focus Areas** a • Fundamentals of AI, ML, and DL
- the Machine Learning Algorithms

 - Natural Language Processing (NLP): Text Preprocessing, Word Embeddings, and Sentiment Analysis
 - Architecture and Applications
 - Explainable AI (XAI): Importance and Tools
- To empower educators with strategies for AI for Sustainable Development: Smart Cities Agriculture, and Climate Change
 - AWS, Google Cloud, and Azure
 - Learning, and Quantum AI
 - Development

Spoke Course coordinator details

Prof. (Dr.) Leena Samantray. Principal, ABIT, Cuttack. Mobile No -91-9861181558

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Spoke Course Co-Coordinator details

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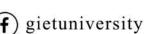
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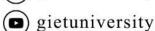
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