



ONLINE FACULTY DEVELOPMENT PROGRAMME (FDP) ON AI and Deep Learning: Trends and Future Development (03rd - 14th March 2025)



Organized by
Electronics & ICT Academy, NIT Warangal

In Association With

Department of EE, International Institute of Information Technology (IIIT) Bhubaneswar

Sponsored by Ministry of Electronics and Information Technology (MeitY), GoI

Preamble:

"Electronics & ICT Academy – Phase II" was set up at NIT Warangal with financial assistance from MeitY, GoI. This academy's role is to offer Faculty Development Programmes in standardized courses and emerging areas of Electronics, Information Communication Technologies, training & consultancy services for Industry, Curriculum development for Industry, CEP for working professionals, Advice and support for technical incubation and entrepreneurial activities.

About the FDP:

The FDP titled "AI and Deep Learning: Trends and Future Direction" focuses on integrating academic research with industry needs in AI, Machine learning and Deep Learning. It aims to explore ML and DL trends across various sectors, emphasizing how academic insights can solve real-world industry challenges. The program would likely cover collaboration models, case studies of AI and DL deployment in industry, and methods to translate cutting-edge AI and DL research into scalable industry solutions. It also aims to build bridges between researchers and practitioners, fostering innovation and practical AI and DL developments.

Major Course Content:

- Introduction to Artificial Intelligence
- Fundamentals of Machine Learning
- Deep Learning Essentials
- Neural Network Architectures
- Advanced Deep Learning Topics
- Applications of AI and Deep Learning
- Ethical AI and Explainability
- Future Directions in AI

Deep Learning trends and Future Direction:

- Deep Learning with perceptual insights
- Graph Clustering with graph neural networks
- DL Application for Computer Vision: A Visual Surveillance Approach
- Heart Disease Recognition from Heart sound using Deep Learning
- DL and its application to Ground Penetrating Radar
- Explainable AI for Fault Detection in Power Systems
- AI based Recommendation Systems
- Deep Learning at Scale: Challenges and Opportunities

Faculty Conducting This Programme:

The programme will be conducted by faculty members from IIIT Bhubaneswar; academicians in the concerned field from IITs/NITs/IIITs are invited to deliver lectures. Speakers from research labs are also expected to deliver as part of the course.

Registration Fee Particulars:

Faculty and Research Scholars	Rs. 750/-
Industry Participants	Rs. 2250/-

Participants need to pay the Registration Fee Online using the following details:

Online Transfer Details

Account Name	: Electronics & ICT Academy NITW
Account No.	: 62423775910
IFSC	: SBIN0020149
Bank and Branch	: State Bank of India, NIT(REC) Warangal

How to apply:

Participants are required to fill the online registration form by clicking on the following link:

<https://forms.gle/DZaMUNDC8LwfSXd89>

Selection Criteria:

Selection will be done based on first-come-first-serve basis to a maximum number of 50 (fifty). Candidates will be issued satisfactory certificates on successful completion of the course.

Important Dates:

Last date (Application)	28.02.2025
Selection List by E- mail	01.03.2025
Duration	03.03.2025 to 14.03.2025

About NIT Warangal:

National Institute of Technology, Warangal, is the first among 17 RECs set up as a joint venture of the Government of India and the state government. Over the years, the college has established itself as a premier Institute imparting technical education of a very high standard, leading to B.Tech degrees in various branches of engineering, M.Tech., and Ph.D. programmes in various specializations. All B. Tech and M. Tech programmes of NIT Warangal are NBA accredited.

About IIIT Bhubaneswar:

The Government of Odisha established the International Institute of Information Technology, Bhubaneswar in 2006. It is designed to be a premier institute of Information Technology and related areas. The Institute has been converted into a unitary university by the Government of Odisha on 20th Jan 2014. IIIT Bhubaneswar offers undergraduate, postgraduate, and doctoral programs, emphasizing hands-on learning, interdisciplinary collaboration, and industry partnerships.

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