



Objective of the FDP

The objective of this Faculty Development Program (FDP) is to equip faculty members, researchers, and industry professionals with advanced knowledge and research insights in the evolving domains of AI & ML. With rapid growth in AI, this FDP aims to bridge the gap between theoretical foundations and practical applications in the following areas:



- Understand the fundamentals of Artificial Intelligence (AI) and Machine Learning (ML) and their relevance to core engineering disciplines.



- Explore AI/ML applications in core engineering domains such as Electrical, Electronics, Mechanical, Civil, and Manufacturing Engineering.



- Apply machine learning techniques for engineering data analysis, including classification, regression, clustering, and predictive modelling.



- Develop AI/ML-based solutions for engineering problems, such as fault diagnosis, predictive maintenance, energy forecasting, process optimization, and quality improvement.



- Utilize Python and relevant AI/ML tools and frameworks for implementing and evaluating engineering-oriented machine learning models.



- Integrate AI/ML with emerging technologies such as IoT, Digital Twins, Smart Grids, Robotics, Renewable Energy Systems, and Industry 4.0.



- Develop practical, industry-oriented AI/ML applications through hands-on activities and case studies, enabling participants to identify and solve real-world engineering challenges.



CHIEF PATRON

Prof. P.K.Jain, Director, NIT Patna
Dr. Anita Patra, Registrar CUTM, Odisha

PATRON

Dr. Prafulla Panda, Dean SoET, CUTM,
Odisha



Resource Persons

- Prof. Pravat Kumar Ray, NIT Rourkela
- Dr. Shailendra Kumar, IIT Bhilai
- Dr. Nishant Kumar, IIT Jodhpur
- Mr. Subrat Kumar Prusty, Deputy Director General, Dept. of Telecom
- Prof. Ganapati Panda, Former Deputy Director, IIT Bhubaneswar
- Dr. Guru Prasad Mishra, Nemhans Private Limited, Bhubaneswar, Odisha
- Dr. Rasewari Pradhan, VSSUT, Burla
- Dr. Soumya R. Mahapatro, VIT, Chennai, Govt. of Odisha
- Dr. Sourabh Nath, IEST Shibpur
- Dr. Prabina Pattanayak, NIT Silchar
- Dr. Bighnaraj Naik, VSSUT, Burla
- Mr. Somnath Singha, Webskitters Technology Solutions Pvt.Ltd
- Dr. Abinash Rath, VIT Vellore
- Dr. Basant Kumar Sethi, NIT Surat

And

Others; from industries, research centers, faculty members from IISc/IIT/NIT/IEST, and other leading institutions



इलेक्ट्रॉनिक्स एवं सूचना प्रौद्योगिकी संशोधन
MINISTRY OF
ELECTRONICS AND
INFORMATION TECHNOLOGY



Two Week Faculty Development Program on

AI & Machine Learning Applications in Core Engineering

1st to 10th Oct 2026

Under the Aegis of

Electronics and ICT academy, Phase-II at
National Institute of Technology, Patna

Jointly organized by

National Institute of Technology, Patna
and

Centurion University of Technology and
Management, Paralakhemundi, Odisha

Supported by

Ministry of Electronics and Information
Technology (MeitY), Govt. of India

Conveners

Dr. Vinalesh Verma, NIT Patna
Dr. Prabhat K. Patnaik, CUTM, Odisha

Coordinators

Dr. Trilochan Penthia,
Assistant Prof., EED, NIT Patna

And

Dr. Prangya Parimita Pradhan,
Assistant Prof., EEE Dept.,
CUTM, Odisha



About Electronics & ICT Academy

Ministry of Electronics and Information Technology, Government of India has instituted seven Electronics and Information & Communications Technology (ICT) Academies, of which the academy of NIT Patna is one. The Academy at NIT Patna aims to design and organize basic and specialized training programs in niche areas of electronics and ICT for the development of the required knowledge base, skills, and tools to equip the teaching community with better knowledge and understanding.



About NIT Patna

The National Institute of Technology (NIT) Patna, established in 1886 as Bihar College of Engineering and upgraded to NIT status in 2004, is an Institute of National Importance under the Ministry of Education, Government of India. Located on the banks of the Ganga in Patna, it offers undergraduate, postgraduate, and doctoral programs in engineering, architecture, and sciences. Known for its academic rigor, NIT Patna emphasizes research, innovation, and industry collaboration, with a strong focus on developing skilled professionals capable of addressing global challenges. The institute fosters holistic development through sports, cultural events, and social initiatives like NSS, while its modern infrastructure and dynamic campus life support a thriving learning environment. In recent years, NIT Patna has seen significant growth in placements, reflecting its rising academic and professional stature.



About CUTM Odisha

Centurion Unctronity of Technology and Management (CUTM), established in 2010 as Odisha's first private university under the CUTM Act 4, is accredited with NAAC A+ and holds UGC 12B status. Recognized for its pioneering model of skill-integrated, employability-focused, and entrepreneurship-driven education, CUTM has been acknowledged by national and international bodies including the Government of India, UNESCO, the World Bank, and NITI Aayog. Its School of Vocational Education is a Centre of Excellence under the Ministry of Skill Development, while its agriculture and fisheries schools are ICAR-accredited. CUTM emphasizes experiential learning, sustainable livelihoods, and community engagement through scalable, replicable, and industry-linked innovations, making it a unique institution in higher education.



FDP Details

- The two-week (10 days) training will be conducted by a team of experts from both India & abroad, possessing extensive experience in the theme of the FDP.
- The online training includes 24 hours of theory, 16 hours of lab, and 2 hours on pedagogy/writing tools, totaling 42 hours of sessions.
- E-certificates will be awarded to participants who attend over 70% of the FDP sessions and successfully complete all assigned online assessments.
- Participants will receive recordings the sessions.
- Mode of Conduction: Hybrid Mode.
- Tentative Session Timings (Monday to Friday):
10:30 AM – 12:30 PM and 3:30 PM – 5:30 PM



Registration Fees (Indian)

For Faculty/Research scholars/Students/Others:

Rs. 500/-



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Registration Process

The registration fee should be paid through bank transfer or UPI. The account detail of this purpose is as follows:

Account Name: E and ICT Academy
Account No.: 50380476798
IFSC Code: IDIB000B010
Bank Name: Indian Bank
Branch Name: NIT Patna, Bihar
UPI: ietacademy@indianbk

OR

Scan QR code for payment using UPI apps



UPI ID: ietacademy@indianbk

Upload payment proof with transaction ID in the registration form.

Registration Link:

<https://forms.gle/yEEz2MeUEr94BH5v8>

• **Registration deadline: 25th Sep 2026**



Contact for queries

Dr. Trilochan Penthia, Assistant Professor,
Dept. of Electrical Engg., NIT Patna
Email: trilochan.ee@nitp.ac.in
Contact: +91-7504812988

Dr. Prangya Parimita Pradhan, Assistant Professor,
Dept. of EEE, CUTM Odisha
Email: prangya.pradhan@cutm.ac.in
Contact: +91-8763834475