

About Electronics & ICT Academy at



PDPM IIITDM Jabalpur

The Ministry of Electronics and Information Technology (MeitY), Government of India has instituted Electronics and ICT Academies in the year 2015. In the second phase, the academy at PDPM IIITDM Jabalpur aims at scalable training programmes in niche areas of Electronics and ICT for the development of the required knowledge base, skills and tools to unleash the talent of the Indian population. The Academy is identified by the MeitY as a hub of activities for capacity building through training, internships, research, and consultancy programmes in fundamental and advanced topics in electronics, information and communication technologies, the Academy conducts customized academic programmes for students, corporate sectors and researchers.

About IIIT Nagpur

Indian Institute of Information Technology, Nagpur (IIITN) is established under the Public-Private Partnership Scheme by the Ministry of Education (erstwhile Ministry of Human Resource Development), Government of India, and is supported by the Department of Higher Education, Government of Maharashtra, and Tata Consultancy Services as Industry Partner. IIITN is recognized as an Institution of National Importance by an Act of Parliament in 2017. IIITN started functioning during the year 2016-17, and shifted to its permanent campus sprawling 100 Acres of land near Butibori, Nagpur.

Faculty Development Programme

On

AI, Energy and 6G: Foundations for the Smart and Sustainable Future

The objective of this workshop is to equip participants with foundational and forward-looking knowledge at the intersection of Artificial Intelligence (AI), next-generation communication systems (6G), and sustainable energy technologies. By fostering interdisciplinary learning, the course aims to explore how AI-driven innovations and ultra-low latency 6G networks can enable smarter, greener energy infrastructures for a sustainable future. Through expert talks, hands-on sessions, and collaborative discussions, participants will gain insights into cutting-edge research, real-world applications, and emerging opportunities in building intelligent, resilient, and sustainable systems.

Who can attend: Suitable for faculty from colleges, universities, and technical and professional institutes can attend. Students, fresh graduates, researchers, and industry personnel working in allied disciplines can also attend.

Important Dates

FDP Dates: September 02 - 11, 2025

Last Date of Online Registration: 30/08/2025

Timings: 10AM to 5.30 PM

Coordinators

Dr. Satish K Tiwari, Assistant Professor, IIITDM Jabalpur, sktiwari@iiitdmj.ac.in

Dr. Kaushlendra Sharma, Assistant Professor, IIIT Nagpur, ksharma@iiitn.ac.in

Dr. Suvra Choudhury, Assistant Professor, IIIT Nagpur, schoudhury@iiitn.ac.in

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(Mr Ashvarya Agrawal)

Faculty Development Programme

On

AI, Energy and 6G: Foundations for the Smart and Sustainable Future

September 02 - 11, 2025 (Online)

Jointly Organized by



and



**Electronics and ICT Academy
IIITDM Jabalpur**

*An Initiative of the Ministry of
Electronics and Information Technology,
Government of India*



Faculty Development Programme On

AI, Energy and 6G: Foundations for the Smart and Sustainable Future

September 02 - 11, 2025 (online)

Resource Persons

- Dr. Anand Nayyar, Duy Tan University Vietnam
 - Dr. Prashanta Majumdar, MNIT Jaipur
 - Dr. Satish K. Tiwari, IIITDM Jabalpur
 - Dr. Deepika Agrawal, NIT Raipur
 - Dr. Vinod Sharma, NIT Calicut
 - Dr. Rahul Semwal, IIIT Nagpur
 - Dr. Kaushlendra sharma, IIIT Nagpur
 - Dr. Suvra Choudhury, IIIT Nagpur
 - Dr. Vaghisha Mishra, IIIT Pune
 - Dr. Sujoy Chatterjee, UPES Dehradun
- Other eminent professionals from reputed institutions

Coordinators

Dr. Satish K Tiwari

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Dr. Suvra Choudhury

Assistant Professor, IIIT Nagpur

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Course Outcomes

- Understand the foundational concepts of AI-driven energy systems and 6G communication technologies.
- Analyze how AI and next-gen networks can be integrated to design smart, sustainable infrastructures.
- Apply machine learning techniques to real-world energy management and communication scenarios.
- Gain exposure to cutting-edge research trends and case studies in AI, energy, and wireless innovation.

Hands-On Sessions

- Hands-on session on OpenAI Gym toolkit for developing and testing Reinforcement Learning algorithms for 6G networks.
- Hands-on sessions on FogSim and Wokwi for simulating fog computing and IoT applications.
- Hands-on session using ANSYS/COMSOL for simulating Green Hydrogen systems.

Programme Features

- Rigorous learning to gain knowledge on AI, Energy and 6G Networks.
- Opportunities to connect with experts in the field.
- Instructor-led rigorous hands-on sessions.
- Certificate on successful completion with full access to the course material.

Registration Details

- **Registration link** – Please fill out registration form using the following link:
<https://forms.gle/S7JmEUCq1cYzLddy7>
- **Registration fee:** INR 500/ for online participation
- **Last Date for Registration:** 30/08/2025

Online Payment Details

- **Internet banking**

Beneficiary Name	PDPM IIITDM Jabalpur
Bank Name	Indian Bank
A/C No.	50018692852
IFSC Code	IDIB000M694

- **UPI ID:** iiitdmj@indianbk

- **QR Code:**

