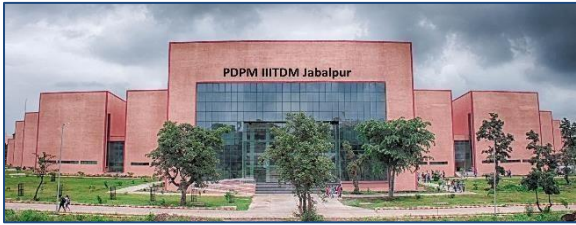


About Electronics & ICT Academy at PDPM IIITDM Jabalpur



The MeitY, Govt of India, instituted Electronics and ICT Academies in the year 2015. In the 2nd 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, the corporate sector, and researchers.

About IIITM Gwalior



ABV-IIITM Gwalior is recognized as an Institute of National Importance. Currently, with a strong academic community comprising around 100 faculty members and approximately 3,500 students, the institute continues to fulfill its mission of developing highly skilled professionals capable of addressing the dynamic and evolving demands of the nation's industries.

Faculty Development Programme

On

Edge AI for Smart Sensors & Secure Autonomous Systems
June 1-10, 2026 (Online)

The Faculty Development Programme (FDP) on “**Edge AI for Smart Sensors & Secure Autonomous Systems**” aims to strengthen faculty expertise in emerging areas of IoT, machine learning, and cybersecurity. It focuses on designing intelligent sensor-based systems, deploying AI models on edge devices, and ensuring secure communication in autonomous environments. The programme integrates theory with hands-on sessions, enabling participants to develop practical skills, enhance research capabilities, and upgrade curriculum aligned with industry needs and next-generation smart technologies.

Who can attend: Faculty from polytechnic, science and engineering colleges, universities, and technical and professional institutes can attend. Researchers, and industry personnel working in allied disciplines can also attend.

Important Dates:

Last Date of Online Registration: **May 30, 2026**

FDP Duration: June 1- 10, 2026

Coordinators:

Dr. Nitish Andola, IIITDM Jabalpur

Dr. Bhanu Chander, IIITM Gwalior

Contact us:

Mr. Durgesh Kushwaha 7898670354

Email: academy@iiitdmj.ac.in, eict@iiitdmj.ac.in

Faculty Development Programme

On

Edge AI for Smart Sensors & Secure Autonomous Systems
June 1-10, 2026 (Online)

Jointly Organized by

**Electronics and ICT Academy
IIITDM Jabalpur**



and

ABV – Indian Institute of Information Technology and Management, Gwalior



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



Faculty Development Programme

on
**Edge AI for Smart Sensors & Secure
Autonomous Systems**
June 1-10, 2026 (Online)

Resource Persons

- Dr. Ajay Pratap, IIT BHU
- Dr. Pranay Saha, IIT Dhanbad
- Dr. Sabarimala Manikandan, IIT Palakkad
- Dr. Tamogna, IIT Dhanbad
- Dr. Narendra Reddy, NIT Calicut
- Dr. Manoj Kumar, NIT Jalandhar
- Dr. Bhanu Chander, IIITM Gwalior
- Dr. Nitish Andola, IIITDM Jabalpur
- Dr. Vijay Pal, IIITM Gwalior
- Dr. Vijay Kumar Yadav, IGDTU

Coordinators

Dr. Nitish Andola
Dept of CSE
IIITDM Jabalpur
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Dr. Bhanu Chander
Dept of IT
IIITM Gwalior
Email: bhanuchander@iiitm.ac.in

Course Contents

- Introduction to Smart Sensors & Edge Intelligence
- Sensor Technologies & Signal Processing
- ESP32, ARM Cortex, Raspberry Pi, Real-time OS basics
- Communication interfaces (I2C, SPI, UART)
- Tiny ML for embedded systems
- Model Deployment on Edge Devices
- IoT Communication Protocols
- IoT & Edge Threat Landscape Hardware security modules
- ML-based anomaly detection
- Edge-based intrusion detection
- Federated learning basics
- Cloud Integration & Advanced Topics
- Latency & performance benchmarking
- Debugging embedded AI models
- Sensors & AI in Autonomous Robotics
- Blockchain & Trust Models for IoT
- Edge intelligence in robotics
- Lightweight Cryptography for IoT
- Post Quantum Cryptography for IoT
- Blockchain in IoT

Hands-On Sessions

- Arduino Programming: Algorithms, Sensor Interfacing, and Real-Time Applications
- Interfacing sensors with ESP32/Raspberry Pi
- Simulation of Cloud/Edge Continuum Scenarios
- Optimization Tools
- Hardware security modules
- Edge-based intrusion detection
- Lightweight Cryptography for IoT
- Post Quantum Cryptography for IoT
- Blockchain in IoT

Programme Features

The programme features expert lectures, hands-on lab sessions, and real-world case studies on Edge AI, IoT, and cybersecurity. It includes interactive discussions, mini-projects, and exposure to modern tools and platforms. Emphasis is placed on practical implementation, research orientation, and industry relevance to enhance teaching, innovation, and skill development.

Participants will be awarded certificates only on successful completion of the course.

Registration Details

- Registration link – Please fill out the registration using the following link:
<https://forms.gle/roqaKPB5keMRXp9CA>
- Registration fee: INR 500/- (Online participation)
- Last Date for Registration: **May 30, 2026**
- **Tentative Time: Session 1- 4:00 PM to 6:00 PM**
Session 2- 6:30 PM to 8:30 PM

Online Payment Details

- **Internet banking**

Beneficiary Name	PDPMIITDM Jabalpur
Bank Name	INDIAN BANK
A/C No.	50018692852
IFSC Code	IDIB000M694
Beneficiary Name	PDPMIITDM Jabalpur

- **UPI ID: iiitdmj@indianbk**

- **QR Code:**

