About Electronics & ICT Academy at PDPM IIITDM Jabalpur

The Ministry of Electronics and Information Technology (MeitY), Government of India, instituted Electronics and ICT Academies in 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, the corporate sector, and researchers.

About PDPM IIITDM Jabalpur

PDPM IIITDM Jabalpur was established in 2005 with a focus on education and research in IT-enabled Design and Manufacturing. Since its inception, PDPM IIITDM Jabalpur has been playing a vital role in producing quality human resources for contribution to India's mission of inclusive and sustainable growth. The Institute offers undergraduate, postgraduate and PhD programmes in Computer Science and Engineering, Electronics and Communication Engineering, Mechanical Engineering, Design and PhD programmes in Mathematics, Physics and Literature. Further, the Institute offers an undergraduate programme in Smart Manufacturing. Under IIIT act, the Institute has been declared as an Institute of National Importance. The Institute campus is developed on 250 acres of land close to Dumna Airport, Jabalpur.

Faculty Development Programme
On
Next Generation IoT Security: Architecture, Threats and Practical Defenses (Online mode)

October 06-16, 2025

The Internet of Things (IoT) is rapidly expanding, connecting billions of devices worldwide. With this growth, new security threats like hacking, botnets, and data breaches are rising. Next Generation IoT Security focuses on a layered architecture with strong defences. Practical measures include authentication, encryption, AI-based threat detection, and zero-trust models. Future advancements like blockchain, quantum-safe cryptography, and global standards will strengthen IoT systems. Secure IoT is the foundation for safe and reliable digital transformation.

Who can attend:

Faculty members from colleges, universities, technical, and professional institutes can attend. Students, fresh graduates, researchers, and industry personnel working in allied disciplines can also attend.

Important Dates:

Last Date of Online Registration: **October 04, 2025**
FDP Dates: **October 06-16, 2025**

Coordinators:

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Organized by

Electronics and ICT Academy IIITDM Jabalpur

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

Digital India
Power To Empower

Faculty Development Programme

On

Next Generation IoT Security: Architecture, Threats and Practical Defenses (Online mode)

October 06-16, 2025

Resource Persons

- **Prof. Sandeep Shukla,** *Director (IIIT Hyderabad)*
- **Prof. Shekhar Verma,** *IIIT Allahabad*
- **Prof. Aparajita Ojha,** *IIITDM Jabalpur*
- **Dr. Gaurav Choudhary,** *DTU Denmark*
- **Dr. S. Venkatesan,** *IIIT Allahabad*
- **Mr. Rohit Negi,** *Chief Executive, Cyber Manthan Center, IIIT Hyderabad*
- **Mr. Munendra Pandey,** *IBM Cloud*
- **Mr. Vinay Mahore,** *Grid dynamics*
- **Dr. Vijay Kumar Yadav,** *IGDTU*
- **Dr. Shishupal Kumar,** *IIIT Nagpur*
- **Dr. Nitish Andola,** *PDPM IIITDM Jabalpur*

Coordinators

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Course Contents

- IoT Architecture
- IoT Security: Challenges and Future Directions
- Advance-Attacks on IoT Devices
- Edge Computing and IoT
- Lightweight Cryptography for Constrained Devices
- Secure Communication Protocols in IoT
- Cloud Security in IoT
- Blockchain Integration for IoT Security
- Lightweight Blockchain Consensus Mechanisms for IoT
- Post Quantum Security for IoT
- Case-Study IoT Security

Hands-On Sessions

- Configuring IoT Fundamentals.
- Secure IoT Communication Setup,
- Cyber Attacks on IoT
- Lightweight Cryptography
- Advance Cryptography
- Cloud Security in IoT
- Blockchain for IoT Lab

Programme Features

- Next Generation IoT Security, Architecture, Threats and Practical Defenses
- Opportunities to connect with experts in the field.
- Instructor-led rigorous hands-on sessions with online (live streaming) sessions.
- Certificate on successful completion with full access to the course material.

Registration Details

- Registration link – Please fill out the registration using the following link:
  https://forms.gle/yD4Fz1pP4jxo822i6

- Registration fee: INR 500/-
- Last Date for Registration: **October 04, 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:**