

## 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. In addition to the faculty development programmes (FDPs) on fundamental and advanced topics in electronics, information and communication technologies, the Academy conducts customized training programmes for students, corporate sectors and research promotion workshops in emerging areas. The Academy is identified by the MeitY as the central hub of activities on training, internships, research, and consultancy programmes.

### 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

### Next-Generation Secure Cyber-Physical Systems

The Cyber-Physical Systems (CPS) are rapidly evolving, integrating computation, communication, and physical processes across domains such as smart cities, healthcare, and industrial automation. With this expansion, new security threats including cyber-attacks, system manipulation, and data breaches are increasing significantly.

Next-Generation CPS Security focuses on a layered and resilient architecture with strong defensive mechanisms across sensing, communication, and control layers. Practical approaches include secure authentication, lightweight and post-quantum cryptography, trusted communication protocols, and AI-based anomaly detection.

**Who can attend:** The Programme is open to faculty from all colleges, universities, and technical and professional institutes. Students, fresh graduates, researchers, and industry personnel working in allied disciplines can also attend.

### Important Dates:

**Last Date of Online Registration: May 17, 2026**

**FDP Dates: May 20-29, 2026**

### Coordinators:

**Dr. Nitish Andola**, Assistant Professor,  
IIITDM Jabalpur

**Prof. S. Venkatesan**, Professor, IT,  
IIIT Allahabad

**Dr. Vijay Kumar Yadav**, Assistant Professor,  
CSE, IGDTUW-Delhi

## Faculty Development Programme

### Next-Generation Secure Cyber-Physical Systems

**May 20-29, 2026 (Online mode)**



### Electronics and ICT Academy, Phase II



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



PDPM Indian Institute of Information  
Technology, Design and Manufacturing, Jabalpur  
Dumna Airport Road, Jabalpur 482005

## RESOURCE PERSONS

- **Prof. Sandeep Shukla**, *Director (IIIT Hyderabad)*
- **Prof. Shekhar Verma**, *IIIT Allahabad*
- **Prof. S. Venkatesan**, *IIIT Allahabad*
- **Mr. Munendra Pandey**, *Microsoft*
- **Dr. Mayank Swarnkar**, *IIT BHU*
- **Dr. T R Reshmi**, *SETS Chennai*
- **Mr. Rohit Negi**, *Chief Executive, Cyber Manthan Center, IIIT Hyderabad*
- **Dr. Vijay Kumar Yadav**, *IGDTUW*

## COURSE COORDINATOR

**Dr. Nitish Andola**,  
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## CO-COORDINATOR'S

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**Dr. Vijay Kumar Yadav**,  
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## Course Contents

- Introduction to Cyber Physical Systems
- CPS Security: Challenges and Future Directions
- Advance-Attacks on CPS Systems
- Communication Protocols for CPS: MQTT, CoAP, DDS
- Advanced Attacks on CPS
- Cloud Security in IoT
- Blockchain Integration for IoT Security
- Post Quantum Security for IoT
- Case-Study IoT Security

## Hands-On Sessions

- CPS Hardware Setup: Interfacing Sensors and Actuators
- Secure IoT Communication Setup
- Simulation of CPS Attacks
- Post Quantum Cryptography for CPS
- Cloud Security in IoT
- Blockchain for IoT Lab

## Programme Features

- Next-Generation Secure Cyber-Physical Systems
- 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 registration using the following link:  
<https://forms.gle/AtgueH5Y7Zs1cL3W8>
- Registration fee: 500 INR/-
- Last Date for Registration: **May 17, 2026**

## Online Payment Details

- **Internet banking**

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

- **UPI ID: [iiitdmj@indianbk](mailto:iiitdmj@indianbk)**



## Contact Us

For any queries, please contact

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