

## 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 IIT 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. The Institute is 10 kms from the main railway station and 5.5 kms from Dumna Airport, Jabalpur.

## Faculty Development Programme Cybersecurity

The course is designed to provide participants with in-depth knowledge of penetration and defense techniques and methodologies in the cybersecurity domain. It aims to equip educators and researchers with tools to analyze, understand and explore the cybersecurity domain.

**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: January 20, 2025**

**FDP Dates: January 21-31, 2025**

### Coordinators:

**Dr. Neelam Dayal, Computer Science and Engineering Discipline, PDPM IIITDM Jabalpur**

**Dr. Pushpa Raikwal, Electronics and Communication Engineering Discipline, PDPM IIITDM Jabalpur**

### Contact us:

[academy@iiitdmj.ac.in](mailto:academy@iiitdmj.ac.in), [eict@iiitdmj.ac.in](mailto:eict@iiitdmj.ac.in)

**Ms A Pandey, Managing Associate: 7999863597**

## Faculty Development Programme Cybersecurity

**January 21-31, 2025 (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

## Faculty Development Programme Cybersecurity

**January 21-31, 2025 (Online mode)**

### RESOURCE PERSONS

- Dr. S. Venkateshan, IIT Allahabad
- Dr. Shashank Srivastava, MNNIT Allahabad
- Dr. Mayank Swarnakar, IIT BHU
- Dr. Ankit Jain, NIT Kurukshetra
- Er. Amrendra Sharan, NITTTR Chandigarh
- Dr. Pushpa Raikwal, PDPM IIITDM Jabalpur
- Dr. Neelam Dayal, PDPM IIITDM Jabalpur

### COURSE COORDINATORS

Dr. Neelam Dayal,  
Assistant Professor, CSE  
PDPM IIITDM Jabalpur  
Email: neelam.dayal@iiitdmj.ac.in  
Phone: +91-761-2794232  
Mobile: +91-9473619501

Dr. Pushpa Raikwal,  
Assistant Professor, ECE,  
PDPM IIITDM Jabalpur  
Email: praikwal@iiitdmj.ac.in  
Mobile: +91-7566961114

## Course Contents

- Software Security - Buffer overflow, Integer overflow, Format string vulnerabilities Web Security – SQL injection, XSS, CSRF, etc
- Web App Penetration Testing,
- Network Security - DNS, ICMP, ARP attacks, IP Sec, BGP Sec, etc., Browser based attacks
- Wireless Vulnerabilities - 802.11 Wireless Vulnerabilities, Hacking Wi-Fi networks By Passing Windows logon system
- Security Tools - DVWA, Snort, Metasploit, Wireshark, NMAP, Nessus, Openssl, etc.
- Security in IoT, Tools for cyber security
- Basic Cryptography and its importance in Cyber security, Cryptographic Hash functions
- Blockchain based Security
- IDS- Intrusion Detection System
- Cyber Security Assurance and Law, Cyber Forensics

### Hands-On Sessions

- Vulnerability assessment and penetration testing
- Understanding software exploits and preventions
- Exploring SET tool for social engineering attacks
- Ettercap usage for network exploits
- Designing of intrusion detection system
- Static and dynamic malware analysis
- Hacking WiFi network and security
- Exploring IoT Security tools

## Programme Features

- Hands-on experience on fundamentals of penetration testing and ethical hacking.
- 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/tJUVPvWgW9Lh15S48>
- Registration fee: 500 INR/-
- Last Date for Registration: **January 20, 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**

