

About Electronics & ICT Academy at PDPM IIITDM Jabalpur



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

About ABV-IIITM Gwalior



Atal Bihari Vajpayee-Indian Institute of Information Technology and Management, Gwalior, is a premier institution for higher education and research in the fields of information technology and management. Established by the Govt of India, it focuses on grooming professionals with a blend of technical expertise and managerial skills. The institute offers undergraduate, postgraduate, and doctoral programs, fostering innovation and entrepreneurship among its students. With state-of-the-art facilities, experienced faculty, and industry collaborations, ABV-IIITM Gwalior aims to produce leaders capable of addressing contemporary challenges in technology and management domains.

Faculty Development Programme On Emerging Trends in Offensive and Defensive Cybersecurity for a Secure Digital Ecosystem

The FDP is designed to equip participants with the theoretical foundations and practical skills required to address contemporary cybersecurity challenges. The program provides comprehensive coverage of modern offensive and defensive security techniques, spanning cryptography, network and web security, hardware and IoT security, malware analysis, secure software development, digital forensics, post-quantum cryptography, data privacy, and AI-driven cybersecurity. Through expert lectures and hands-on laboratory sessions, participants will gain insights into identifying and responding to cyber threats.

Who can attend: Suitable for faculty from 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: **29-July-2026**
- FDP Dates: **01 August to 10 August, 2026**

Coordinators

Dr. Debanjan Sadhya
ABV-IIITM Gwalior
debanjan@iiitm.ac.in

Dr. Vijaypal Singh Rathor
ABV-IIITM Gwalior
vsrathore@iiitm.ac.in

Dr. Nitish Andola
IIITDM Jabalpur
nitish.andola@iiitdmj.ac.in

Faculty Development Programme On Emerging Trends in Offensive and Defensive Cybersecurity for a Secure Digital Ecosystem

(Online Mode)

Jointly Organized by
ABV-IIITM Gwalior



and

**Electronics and ICT Academy
IIITDM Jabalpur**



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



Faculty Development Programme

On

Emerging Trends in Offensive and Defensive Cybersecurity for a Secure Digital Ecosystem

Date: 01-August to 10-August-2026 (Online)

Resource Persons (Tentative)

- Dr. Mayank Swarnkar (IIT-BHU)
- Dr. Mriganka Mandal (R. C. Bose Center for Cryptology and Security, ISI Kolkata)
- Dr. Debanjan Sadhya (ABV-IIITM Gwalior)
- Dr. Vijaypal Singh Rathor (ABV-IIITM Gwalior)
- Dr. Saumya Bhaduria (ABV-IIITM Gwalior)
- Dr. Nitish Andola (IIITDM Jabalpur)
- Dr. Bodhi Chakraborty (Adamas University)
- Mr. Ajinkya Lohakare (Ditto Security Innovations, Mumbai)
- Mr. Nikhil Rathor (Scientist C, C-DoT, Delhi)
- Mr. Anshu Sahu (HP, Bangalore)
- Other faculty members from IITs, IIITs, NITs, and Industry experts.

FDP Coordinators

- **Dr. Debanjan Sadhya**, ABV-IIITM Gwalior, Email: debanjan@iiitm.ac.in
- **Dr. Vijaypal Singh Rathor**, ABV-IIITM Gwalior, Email: vsrathore@iiitm.ac.in
- **Dr. Nitish Andola**, IIITDM Jabalpur, Email: nitish.andola@iiitdmj.ac.in

Contact Us:

Email: debanjan@iiitm.ac.in, vsrathore@iiitm.ac.in
Mr. Pankaj Gugnani: 9300594525
Mr. Shubham Jain: 9639640457

Course Contents

- Cryptography Fundamentals & Security Notions (Confidentiality, Integrity, Authentication).
- Advanced Cryptography & Secure Protocols (Diffie-Hellman, RSA, SSL/TLS Analysis)
- Network Security & Zero Trust Architecture
- Web & Network Penetration Testing (SQL Injection, XSS, CSRF, etc)
- Hardware & IoT Security: Hardware Security Concepts, TPM, Secure Boot, Trusted Execution, IoT Threat Landscape
- Malware Analysis: Threat Models, Static & Dynamic Analysis Techniques
- Secure Software Development & Vulnerability Analysis (OWASP Top 10)
- Digital Forensics & Incident Response (Disk, Memory, Network)
- Data Privacy & AI in Cybersecurity.

Hands-On Sessions

- Implement basic cryptographic primitives.
- TLS Handshake & Traffic Analysis
- Network Scanning and Enumeration
- Web Application Penetration Testing
- IoT Device Configuration & Security Hardening
- Malware Analysis (Static & Dynamic Analysis)
- Digital Forensics & Incident Response Tools

Programme Features

- Lectures and demonstrations by domain experts covering real-world challenges.
- 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 using the following link:
<https://forms.gle/kqXKwhxyL94fxEVL7>
- **Registration fee:** INR 500 for all participants
- Last Date for Registration: **29-July-2026**

Online Payment Details

- **Internet banking**

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|------------------|-----------------------|
| Beneficiary Name | ABVIIIITM FDP ACCOUNT |
| Bank Name | Bank of India |
| A/C No. | 945210110009380 |
| IFSC Code | BKID0009462 |

- **UPI ID:** boim-945263969380@boi
- **QR Code:**

