

About Electronics & ICT Academy at PDPM IITDM 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 IITDM 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, corporate sectors and researchers.

About ABV-IIITM Gwalior

ABV-IIITM, Gwalior, is a premier institution for higher education and research in the fields of information technology and management. Established by the Government 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

Securing the Digital World: Recent Advances in Cybersecurity and Computer Vision

The FDP is designed to provide participants with a comprehensive understanding of emerging technologies, research trends, and practical challenges in the domains of cybersecurity and intelligent vision systems. The program aims to bridge the gap between theoretical foundations and real-world applications by covering contemporary topics such as cryptography, network and system security, digital forensics, privacy preservation, deepfake detection, image analysis, and AI-driven security solutions.

Who can attend: Suitable for faculty from colleges, universities, and 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: 08 July 2026

FDP Dates: 10 – 19 July 2026

Coordinators:

Dr. Durgesh Singh, IITDM Jabalpur

Dr. Debanjan Sadhya, ABV-IIITM Gwalior

Dr. Santosh Singh Rathore, ABV-IIITM Gwalior

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Faculty Development Programme On

Securing the Digital World: Recent Advances in Cybersecurity and Computer Vision

(Online Mode)

Jointly Organized by
**Electronics and ICT Academy
IITDM Jabalpur**



and
ABV-IIITM Gwalior



विश्वजीवनामत्तं ज्ञानम्

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



Faculty Development Programme On

Securing the Digital World: Recent Advances in Cybersecurity and Computer Vision

Date: 10 – 19 July 2026 (online)

Resource Persons

- Prof. Sanjay Kumar Singh (IIT(BHU) Varanasi)
- Dr. Debanjan Sadhya (ABV-IIITM Gwalior)
- Dr. Santosh Singh Rathore (ABV-IIITM Gwalior)
- Dr. Durgesh Singh (IIITDM Jabalpur)
- Dr. Amrendra Singh Yadav (ABV-IIITM Gwalior)
- Dr. Vibhav Prakash Singh (MNNIT Allahabad)
- Dr. Bodhi Chakraborty (Adamas University)
- Dr. Ayan Seal (IIITDM Jabalpur)
- Dr. Sandeep S. Udmale (VJTI Mumbai)
- Dr. Shaheen Usmani (Thapar University)
- Other faculty members from IITs, IIITs, NITs, and Industry experts.

Coordinators

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Course Contents

- Cybersecurity Foundations: CIA triad, Threats, cryptography, secure communication, intrusion detection and digital forensics.
- Computer Vision Fundamentals: Basics of image processing, feature extraction, CNNs, transformers, object detection and recognition.
- Data Privacy Schemes: Anonymization techniques, sanitization and perturbation, differential privacy and its applications.
- Biometrics & Surveillance Systems: Face, iris, gait recognition, and smart city applications using computer vision.
- Convergence of Cybersecurity & Vision: Deepfake detection, adversarial robustness, vision-based intrusion detection.
- Generative AI and Cybersecurity: LLM prompt injection, jailbreaking, and LLM guardrails.

Hands-On Sessions

- Implement basic cryptographic primitives.
- Evidence acquisition and forensic analysis.
- Image Processing and Feature Extraction using OpenCV.
- Detect real-world objects in images/video.
- Build and train a convolutional neural network.
- Differential Privacy Implementation.
- Deepfake detection using deep learning.

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/JcrNeavL7GygdqVc6>
- Registration fee: INR 500 for online participation
- Last Date for Registration: **08-July-2026**

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:

