

E&ICT Academy, PDPM IIITDM Jabalpur

Online Winter Faculty Development Programme **Biometrics Security in the Generative AI Era**

March 1 - 12, 2025 (2:30 PM - 4:30 PM & 6 PM - 8 PM) live streaming

Jointly Organized by

IIITDM Jabalpur



NIT Warangal



IIT Roorkee



NIT Patna



MNIT Jaipur



and hosted by

Indian Institute of Information Technology, Nagpur



Schedule and Course Contents

- Introduction to Biometric Systems, Biometric System Evaluation, Machine Learning and Deep Learning Models for Biometric Recognition
- Introduction to Generative AI, Variational Autoencoders, Generative Adversarial Networks (GANs), Attack Landscape on Biometric Recognition, Deepfake Generation and Detection
- Biometric Template Protection Techniques, Countermeasures against Attacks using AI, Vision Transformers for Biometric Recognition, Explainable AI and Biometric Signal Processing
- Regulatory, Ethical, and Privacy Challenges for Biometric Systems
- Hands-on sessions on Biometric Authentication, attack detection, and Deepfake Generation and Detection

Coordinators

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RESOURCE PERSONS

- Prof. Phalguni Gupta, IIT Kanpur
- Prof. Vijay Laxmi, MNIT Jaipur
- Prof. Pritee Khanna, IIITDM Jabalpur
- Prof. Surya Prakash, IIT Indore
- Dr. Sambit Bakshi, NIT Rourkela
- Dr. Kiran Raja, NTNU Norway
- Dr. Shiv Ram Dubey, IIIT Allahabad
- Dr. Harkeerat Kaur, IIT Jammu
- Dr. Avantika Singh, IIIT Naya Raipur
- Dr. Karnati Mohan, NIT Raipur

Registration Details

Registration link – Please fill in the registration form using the following link:

<https://forms.gle/5zfKC5N8gjr7Nsc9>

Registration fee: INR 500/-

Last Date for Registration: February 28, 2025

Online payment details:

• Internet Banking:
Beneficiary Name: Indian Institute of Information Technology, Nagpur General
Bank Name: SBI, VRCE Branch
A/C No. : 41759739179
IFSC Code: SBIN0006702

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