	E	Biometrics Security in	the Generative Al Era (March	1 -12, 2025, Online Mode)	
Date	Day	2:00 PM - 4:00 PM (only on March 1, 2025)		6 PM - 8 PM	
March 1, 2025	Saturday	2:00 PM - 2:30 PM	2:30 PM - 4:00 PM	Lab 1: Brief introduction to Python, Jupyter Noteb	ook, Google
		Inaugural	Lec 1: Introduction to Biometric	Colab, Keras, and Pytorch: Dr. Samir Jain, alfaTK	G Integrated
			Systems: Prof. Phalguni Gupta,	Sol. Pvt Ltd.	
			Former Professor, IIT Kanpur		
		2:30 PM - 4:30 PM (March 3 - 12, 2025)		6 PM - 8 PM	
March 3, 2025	Monday	Lec 2: Biometric System Lec 3: Fingerprint Recognition		Lab 2: Training a machine learning model for fingerprint/face-	
		Evaluation: Prof. Pritee	Dr. Sambit Bakshi, NIT	based Biometric Authentication System: Dr. Sam	nbit Bakshi,
		Khanna, IIITDM	Rourkela	NIT Rourkela	
		Jabalpur			
March 4, 2025	Tuesday	Lec 4: Machine Learning and Deep Learning Models for Biometric Recognition: Dr. Rahul Raman, IIITDM		Lab 3: Training a neural network for face/fingerprint-based	
				Biometric Authentication System: Dr. Samir Jain, alfaTKG	
		Kancheepuram		Integrated Sol. Pvt Ltd.	
March 5, 2025	Wednesday	Lec 5: Attack Landscape on Biometric Recognition and Countermeasures against Attacks using AI: Dr. Rahul		Lab 4: Siamese network for face biometric recognition:	
				Dr. Avantika Singh, IIIT Naya Raipur	
		Raman, IIITDM Kancheepuram			
March 6, 2025	Thursday	Lec 6: Vision Transformers for Biometric Recognition:		Lab 5: Biometric Recognition with Vision Transformers	
		Overview and Case Studies on Vision Transformers based		Dr. Poornima Singh Thakur, ABV IIITM Gwalior	
		Biometric Recognition: Dr. Shiv Ram Dubey, IIIT Allahabad			
March 7, 2025	Friday	Lec 7: Biometric Template Protection Techniques:		Lec 8: Autoencoder, Variational Autoencoders (VAEs),	
		Dr. Harkeerat Kaur, IIT Jammu		Applications of Generative AI in Biometrics:	
				Prof. Aparajita Ojha, IIITDM Jabalpur	
March 8, 2025	Saturday	Lec 9: Template Generation with Generative Models: Basics of GAN and its usage in Biometrics: Prof. Surya		Lab 6*: Implementation of Autoencoder to Generate	
				Biometric Data:	
		Prakash, IIT Indore		Dr. Samir Jain, alfaTKG Integrated Sol. Pvt Ltd	
March 10, 2025	Monday	Lec 10: Deepfake Generation and Detection: Prof. Pritee		Lec 11: Regulatory, Ethical, and Privacy Challenges:	
		Khanna, IIITDM Jabalpur		Prof. Mayank Vatsa, IIT Jodhpur	
March 11, 2025	Tuesday	Lab 7: Implementation of GAN to Generate Biometric Data:		Lab 8: Explainable AI and Biometric Signal Processing:	
		Dr. Poornima Singh Thakur, ABV IIITM Gwalior		Dr. Kiran Raja, NTNU Norway	
March 12, 2025	Wednesday	Lab 9: Al-based deepfake detection model		Lec 12: Future Trends and Research Directions:	7:30 PM -
		Dr. Mohan Karnati, NIT R	aipur	Dr. Prem Sewak Sudhish, Dayalbagh	8:00 PM
				Educational Institute, Agra	Valedictory