Electronics & ICT Academy

(Under Ministry of Electronics and Information Technology (MeitY), Govt. of India)
Indian Institute of Technology Guwahati, Assam, Pin 781039
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One - Week Faculty Development Programme in offline Mode on

"Emerging Trends in Artificial Intelligence and Generative AI: Concepts, Tools, Applications and Future Directions"

(30th November – 04th December 2026)

In association with Muthoot Institute of Technology and Science (Autonomous), Kerela

Schedule

Date	Time	Topic	Expert
Day-1 30-11-2026	09:30 am - 10:15 am	**Inaugural session**	
	10:15 am - 10:30 am	**Tea Break**	
	10:30 am - 11:30 am	Introduction to AI, ML and Deep Learning: Challenges in Engineering Education, Research and Career Opportunities	**Prof. M.K. Bhuyan** IIT Guwahati
	11:30 am - 01:00 pm	Artificial Neural Networks: From Basic Neurons to Deep Architectures	**Prof. M.K. Bhuyan** IIT Guwahati
	01:00 pm - 02:00 pm	**Lunch Break**	
	02:00 pm - 03:30 pm	Deep Learning Architectures for Image Analysis - I	**Prof. M.K. Bhuyan** IIT Guwahati
	03:30 pm - 03:45 pm	**Tea Break**	
	03:45 pm - 05:30 pm	Deep Learning Architectures for Image Analysis - II	**Prof. M.K. Bhuyan** IIT Guwahati
Day-2 01-12-2026	09:30 am - 11:15 am	Beyond RNNs and CNNs: Transformers and Emerging Trends in Language and Vision	**Prof. M.K. Bhuyan** IIT Guwahati
	11:15 am - 11:30 am	**Tea Break**	
	11:30 am - 01:00 pm	From Vision Transformers to Swin Transformers: Modern Architectures for Computer Vision and Beyond	**Prof. M.K. Bhuyan** IIT Guwahati
	01:00 pm - 02:00 pm	**Lunch Break**	
	02:00 pm - 03:30 pm	Exploring Autoencoders: From Unsupervised Learning to Visual Intelligence	**Prof. M.K. Bhuyan** IIT Guwahati
	03:30 pm - 03:45 pm	**Tea Break**	
	03:45 pm - 05:30 pm	From Idea to Funding: Writing Successful Research Grant Proposals with Digital Tools	**Prof. M.K. Bhuyan** IIT Guwahati
Day-3 02-12-2026	09:30 am - 11:15 am	Generative Adverserial Networks and it's Variants	**Dr. Prashant W Patil** IIT Guwahati
	11:15 am - 11:30 am	**Tea Break**	
	11:30 am - 01:00 pm	Importance of Multimodal Learning	**Dr. Prashant W Patil** IIT Guwahati
	01:00 pm - 02:00 pm	**Lunch Break**	
	02:00 pm - 03:30 pm	Vision Language Models	**Dr. Prashant W Patil** IIT Guwahati

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	03:30 pm - 03:45 pm	**Tea Break**	
	03:45 pm - 05:30 pm	Hands on Multimodal Applications	**Dr. Prashant W Patil** IIT Guwahati
Day-4 03-12-2026	09:30 am - 11:15 am	Agentic AI	**Dr. Prashant W Patil** IIT Guwahati
	11:15 am - 11:30 am	**Tea Break**	
	11:30 am - 01:00 pm	Modern Vision Trends	**Dr. Prashant W Patil** IIT Guwahati
	01:00 pm - 02:00 pm	**Lunch Break**	
	02:00 pm - 03:30 pm	Introduction Generative AI and SLMs	**Dr. Deepak Mishra** IIST, Trivandrum
	03:30 pm - 03:45 pm	**Tea Break**	
	03:45 pm - 05:30 pm	Hands on Generative AI	**Dr. Deepak Mishra** IIST, Trivandrum
Day-5 04-12-2026	09:30 am - 11:15 am	Graph Neural Network and its applications	**Dr. Deepak Mishra** IIST, Trivandrum
	11:15 am - 11:30 am	**Tea Break**	
	11:30 am - 01:00 pm	Beyond Transformers: Structured state space Neural Network Models	**Dr. Deepak Mishra** IIST, Trivandrum
	01:00 pm - 02:00 pm	**Lunch Break**	
	02:00 pm - 03:30 pm	Spiking Neural Network models for Neuromorphic Computing	**Dr. Deepak Mishra** IIST, Trivandrum
	03:30 pm - 03:45 pm	**Tea Break**	
	03:45 pm - 04:45 pm	Hands on GNN and spiking models	**Dr. Deepak Mishra** IIST, Trivandrum
	04:45 pm - 06:00 pm	**MCQ & Valedictory**	

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