

Faculty Development Programme on			
Artificial Intelligence, Machine Learning and Deep Learning: Concepts and Applications in Education, Healthcare, Robotics and Engineering			
Date: 24th to 28th August 2026			
In Association with: JSS Science and Technology University, Mysuru			
Mode: Offline			
Date	Time	Topic	Expert
Day-1	09:00 am - 09:30 am	<i>Inauguration</i>	
	09:30 am - 11:15 am	AI in Higher Education: Expectations, Challenges, and Emerging Career Opportunities	M.K. Bhuyan IIT Guwahati
	11:15 am - 11:30 am	Tea Break	
	11:30 am - 01:00 pm	Deep Learning Architectures for Image Analysis - I	
	01:00 pm - 02:00 pm	Lunch	
	02:00 pm - 03:30 pm	Deep Learning Architectures for Biomedical Image Analysis - II	
	03:30 pm - 03:45 pm	Tea Break	
	03:45 pm - 05:30 pm	Autoencoders for Medical Image Analysis: Denoising, Reconstruction, Segmentation, and Diagnosis	
Day-2	09:30 am - 11:15 am	Building Blocks of Transformers	M.K. Bhuyan IIT Guwahati
	11:15 am - 11:30 am	Tea Break	
	11:30 am - 01:00 pm	Transformers Beyond Language: The Rise of Vision Transformers	
	01:00 pm - 02:00 pm	Lunch	
	02:00 pm - 03:30 pm	Hands-on sessions	
	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	

Day-3	09:30 am - 11:15 am	Introduction to AI	Deepak Mishra IIST Thiruvananthapuram
	11:15 am - 11:30 am	Tea Break	
	11:30 am - 01:00 pm	Generative AI (GANs, Diffusion Model etc.) and Its application in Computer vision	
	01:00 pm - 02:00 pm	Lunch	
	02:00 pm - 03:30 pm	State space models for computer vision and signal processing	
	03:30 pm - 03:45 pm	Tea Break	
	03:45 pm - 05:30 pm	RAG and LLMs basics (hands-on session)	
Day-4	09:30 am - 11:15 am	Generative AI for Geospatial Data Analytics (hands-on)	Deepak Mishra IIST Thiruvananthapuram
	11:15 am - 11:30 am	Tea Break	Prashant W Patil IIT Guwahati
	11:30 am - 01:00 pm	Importance of Multimodal Learning	
	01:00 pm - 02:00 pm	Lunch	
	02:00 pm - 03:30 pm	Vision Language Models	
	03:30 pm - 03:45 pm	Tea Break	
	03:45 pm - 05:30 pm	Multimodal Learning for Healthcare Applications	
Day-5	09:30 am - 11:15 am	Agentic AI for Recent Multimodal Applications	Prashant W Patil IIT Guwahati
	11:15 am - 11:30 am	Tea Break	
	11:30 am - 01:00 pm	Edge AI for Vision Applications	
	01:00 pm - 02:00 pm	Lunch	
	02:00 pm - 03:00 pm	General Awareness on IPR	Dr. Pankaj Kumar IIT Guwahati
	03:00 pm - 03:30 pm	MCQ and Feedback	
	03:30 pm - 03:45 pm	Tea Break	
	03:45 pm - 05:30 pm	Valedictory	

