Transforming Teaching Practices in School Education: NEP 2020, Digital Pedagogy, and GenAI
Organized by: Centre for Interdisciplinary and Convergent Technologies (CIDCT), Indian Institute of Technology Kharagpur
2-6 November 2026
Programme Schedule for PGT Computer Science

Day &Theme	Time Slot	
Day-1 **Program Induction & Machine Learning Foundations**	9:00 AM – 9:30 AM	Registration
	9:30 AM – 11:00 AM	**Program Induction & Environment Setup** Dr. Vishwanath Shukla / Dr. K. K. Bhagat / Dr. Mainack Mondal
	11:00 AM – 11:30 AM	Tea
	11:30 AM – 1:00 PM	**Supervised Learning: Decision Trees & Linear Regression** Dr. Soumen Basu
	1:00 PM – 2:00 PM	Lunch
	2:00 PM – 3:30 PM	**Model Evaluation: A Medical Screening Case Study** Dr. Soumen Basu
	3:30 PM – 4:00 PM	Tea
	4:00 PM – 5:30 PM	**Advanced Algorithms: Ensembles, Tuning & Explainability** Dr. Soumen Basu
Day-2 **Unsupervised Learning, No-Code AI, AI Tools & Responsible AI**	9:30 AM – 11:00 AM	**Unsupervised Learning: Clustering & Association Rules** Dr. Mainack Mondal
	11:00 AM – 11:30 AM	Tea
	11:30 AM – 1:00 PM	**No-Code & Low-Code AI** Dr. Mainack Mondal
	1:00 PM – 2:00 PM	Lunch
	2:00 PM – 3:30 PM	**AI Tools: LLMs for Teaching – Prompt Design & Structured Output** Dr. Mainack Mondal
	3:30 PM – 4:00 PM	Tea
	4:00 PM – 5:30 PM	**AI Project Cycle & Ethics: Bias Audit and Project Scoping** Dr. Mainack Mondal
Day-3 **Deep Learning & AI Model Deployment**	9:30 AM – 11:00 AM	**Deep Learning: Neural Networks from Scratch** Dr. Debanjan Das
	11:00 AM – 11:30 AM	Tea
	11:30 AM – 1:00 PM	**Convolutional Neural Networks: Plant Disease Detection** Dr. Debanjan Das

	1:00 PM – 2:00 PM	Lunch
	2:00 PM – 3:30 PM	**AI Modelling: Transfer Learning with Pre-trained Models** Dr. Debanjan Das
	3:30 PM – 4:00 PM	Tea
	4:00 PM – 5:30 PM	**AI Implementation: Deploying the Model as a Web App** Dr. Debanjan Das
Day-4 **Natural Language Processing, LLMs & Agentic AI**	9:30 AM – 11:00 AM	**NLP: Text Processing & Spam Filtering** Dr. Ritesh Sarkhel
	11:00 AM – 11:30 AM	Tea
	11:30 AM – 1:00 PM	**LLMs: Classic ML, Transformers and LLMs Compared** Dr. Ritesh Sarkhel
	1:00 PM – 2:00 PM	Lunch
	2:00 PM – 3:30 PM	**Agentic AI** Dr. Ritesh Sarkhel
	3:30 PM – 4:00 PM	Tea
	4:00 PM – 5:30 PM	**Hands on: Agentic AI** Dr. Ritesh Sarkhel
Day-5 **RAG, AI Agents & Project Presentations**	9:30 AM – 11:00 AM	**Retrieval-Augmented Generation (RAG): Building a Textbook Chatbot** Dr. Vishwanath Shukla / Dr. K. K. Bhagat
	11:00 AM – 11:30 AM	Tea
	11:30 AM – 1:00 PM	**Introduction to AI Agents: Building Agents from Scratch** Dr. Vishwanath Shukla / Dr. K. K. Bhagat
	1:00 PM – 2:00 PM	Lunch
	2:00 PM – 3:30 PM	**Implementation: Team Project Build** Dr. Vishwanath Shukla / Dr. K. K. Bhagat
	3:30 PM – 4:00 PM	Tea
	4:00 PM – 5:30 PM	**Project Presentations (TOPs) & Closing Ceremony** Dr. Vishwanath Shukla / Dr. K. K. Bhagat