



ONE WEEK
SHORT TERM TRAINING PROGRAM (STTP) in (HYBRID MODE)
on
AI IN INSTRUMENTATION & CONTROL
(24th to 28th Feb 2025)

STTP Schedule

VENUE: Committee Room , New EIE Block (1st Floor)

Dates & Timings	Session 1 (10:00 AM-11:30 AM)	Session 2 (11:45 AM-13:15 PM)	Lunch	Session 3 (2:30 PM- 4:00 PM)
Day 1 24-02-2025	Inauguration* *(9:30 AM to 10:30 AM)	Dr. Sumantra D. Roy IIT Delhi Topic : Introduction to neural networks		Dr. Manpreet Kaur SLIET, Longowal Topic: LSTM and it's applications
Day 2 25-02-2025	Sh. Vijay Kumar Roy Deputy Director General (S.R.I.) Ministry of Communications Topic: Smart sensor network, Industrial communication devices and IoT integration	Dr. Sunil Kumar Thapar University, Patiala Topic: Optimizing the ALIGNMENT of Reference and Query images using Genetic algorithm for Fingerprint Biometric authentication		Mr. Bhavin Darji Trident Tech labs Topic: Artificial Intelligence of Things (AIoT: AI + IoT) with Deep Learning (DL) / Machine Learning (ML)
Day 3 26-02-2025	Dr. Santosh Kumar Vipparthi IIT Ropar Topic: Conventional and Aerial Surveillance using Deep Learning	Dr. Birmohan Singh SLIET, Longowal Topic: Feature selection and reduction techniques for AI		Dr. Subrahmanyam Murala Trinity College Dublin, Ireland Topic: Deep Generative Models for Image/Video Restoration
Day 4 27-02-2025	Dr. Ram Bilas Pachori IIT Indore Topic: AI-based multi-sensor data processing	Dr. Manoj Badoni Thapar University, Patiala Topic: Grid Integration of Renewable Energy Sources with EV Charging Infrastructure		Dr. AS Arora SLIET Longowal Topic: Role of AI in Biomedical signal analysis
Day 5 28-02-2025	Dr. Rajeev Kumar Ranjan, IIT, Dhanbad Topic: Memristor Emulators and Neuromorphic Applications for AI in Instrumentation and Control	Dr. Farheen Chisti Lead Control and Protection Engineer, GE Vernova Topic: AI for Microgrid Control		Dr. Asim Ali Khan SLIET Longowal Topic: AI in Medical Diagnosis

Note: ****Valedictory Session**** (4:00 PM onwards)