



# Training Program on Intelligent Power Transmission & Distribution Systems

18-22 May, 2022

Venue: PBCEC Classroom, Visitors' Hostel, IIT Kanpur

Course program



Day 1: 18 <sup>th</sup> May 2022	
08:30 AM - 09:00 AM	Registration in front of PBCEC Classroom
09:00 AM - 09:45 AM	Inauguration
09:45 AM - 10:45 AM	Smart Grid Overview - Dr. S. C. Srivastava, Director IIT Kanpur-La Trobe Research Academy
10:45 AM - 11:45 AM	Overview of Synchrophasor Technology - Dr. S. Chakrabarti, IIT Kanpur
11:45 AM - 12:00 PM	Tea Break
12:00 PM - 01:15 PM	Overview of Electricity Market - Dr. Swathi Battulla, IIT Kanpur
01:15 PM - 02:15 PM	Lunch
02:15 PM - 03:30 PM	Cyber Physical Analytics of Smart Grids - Dr. Vignesh V, IIT Tirupati
03:30 PM - 03:45 PM	Tea Break
03:45 PM - 05:00 PM	Ambient data analysis for modes identification and its challenges - Dr. Praveen Tripathy, IIT Guwahati
Day 2: 19 <sup>th</sup> May 2022	
09:15 AM - 10:30 AM	Effect of Ambient Temperature variations on Estimation of Proximity of Voltage Collapse - Dr. Bhaskara Reddy, AU, VSP
10:30 AM - 11:45 AM	EV integration challenges to Power Systems - Dr. Gururaj M Vishwanath, IIT Kanpur
11:45 AM - 12:00 AM	Tea Break
12:00 PM - 01: 15 PM	Internet of Things in Smart Grid - Dr. Amey Karkare, IIT Kanpur
01:15 PM - 02:15 PM	Lunch
02:15 PM - 03:30 PM	Visit to Smart Grid Control Centre
03:30 PM - 03:45 PM	Tea Break
03:45 PM - 05:00 PM	Visit to Smart Grid Control Centre
Day 3: 20 <sup>th</sup> May 2022	
09:15 AM - 10:30 AM	Unified Power flow analysis with grid integrated wind farms - Dr. B. Kalyan Kumar, IIT Madras
10:30 AM - 11:45 AM	WBG shaping the future of power systems - Dr. Sandeep Anand, IIT Bombay
11:45 AM - 12:00 AM	Tea Break
12:00 PM - 01: 15 PM	Wireless Power Transfer for Transportation - Dr. Suvendu Samanta, IIT Kanpur
01:15 PM - 02:15 PM	Lunch
02:15 PM - 03:30 PM	UI-ASSIST Pilot 1 Visit- Batch 1/ UI-ASSIST Pilot 2 Visit Batch 2
03:30 PM - 03:45 PM	Tea Break
03:45 PM - 05:00 PM	UI-ASSIST Pilot 1 Visit- Batch 2/ UI-ASSIST Pilot 2 Visit Batch 1
Day 4: 21 <sup>st</sup> May 2022	
08:00 AM - 01:30 PM	UI-ASSIST Rural Pilot Visit
01:30 PM - 02:30 PM	Lunch
02:45 PM - 03:45 PM	Lab Visit
03:45 PM - 04:00 PM	Tea Break
04:00 PM - 05:00 PM	Discussion on IIT Kanpur Field Pilots
07:30 PM - 09:00 PM	Course Dinner
Day 5: 22 <sup>nd</sup> May 2022	
09:15 AM - 10:30 AM	Framework for resilient operation of overhead power distribution network - Dr. Prabodh Bajpai, IIT Kharagpur
10:30 AM - 11:45 AM	Development of WADC for Eastern Regional Grid of Indian Power System - Dr. Sanjoy K. Parida, IIT Patna
11:45 AM - 12:00 AM	Tea Break
12:00 AM - 01: 15 PM	New Control Technique Based on TRFT For AC Loads Integration to Smart DC Microgrid - Dr. Mahesh Kumar, Amity University
01:15 PM - 02:15 PM	Lunch
02:15 PM - 03:15 PM	Open Discussion
03:15 PM - 03:30 PM	Valedictory / Closing
03:30 PM - 04:30 PM	High Tea