

A QIP Course on Smart Grid Technology

IIT Kanpur, 9-13 May 2019

Venue: PBCEC Seminar Hall, Visitors' Hostel, IIT Kanpur

Course program



Day 1: 9 May	
08:15 AM - 08:45 AM	Registration (In front of PBCEC Seminar Hall)
08:45 AM - 09:30 AM	Inauguration, following with Inaugural Tea
09:30 AM - 10:45 AM	Smart Grid Overview - Dr. S. C. Srivastava, IIT Kanpur
10 :45 AM - 12:00 PM	Smart Grid Architecture - Dr. Ankush Sharma, IIT Kanpur
12:00 PM - 12: 15 PM	Tea Break
12:15 PM - 01:30 PM	Smart Grid Measurements – Dr. Saikat Chakrabarti, IIT Kanpur
01:30 PM - 02:30 PM	Lunch
02:30 PM - 03:45 PM	Smart Grid Communication – Dr. Ketan Rajawat, IIT Kanpur
03:45 PM - 4:00 PM	Tea Break
4 PM - 5:15 PM	Advanced Distribution Management System – Dr. Abheejeet Mohapatra, IIT Kanpur
Day 2: 10 May	
09:15 AM - 10:30 AM	Wide Area Monitoring and Control – Dr. S C Srivastava, IIT Kanpur
10:30 AM - 11:45 AM	Renewables Operation, Planning & Demand Response - Dr. Abheejeet Mohapatra, IIT Kanpur
11:45 AM - 12:00 PM	Tea Break
12:00 PM - 01: 15 PM	Renewable Integration and Microgrid - Dr. Sandeep Anand, IIT Kanpur
01:15 PM - 02:15 PM	Lunch
02:15 PM - 3:30 PM	Role of Energy Storage in Smart Grid – Mr. Alekhya Datta, TERI
3:30 PM - 3:45 PM	Tea Break
03:45 PM - 5:00 PM	Smart City and Smart Home Visit – Shiv Kumar Singh, IIT Kanpur
Day 3: 11 May	
09:15 AM - 10:30 AM	Analytics - State Estimation, Load Modelling and more - Dr. Saikat Chakrabarti, IIT Kanpur
10:30 AM - 11:45 AM	IoT in Smart Grid - Dr. Amey Karkare, IIT Kanpur
11:45 AM - 12:00 PM	Tea Break
12:00 PM - 01: 15 PM	EV and its Infrastructure – Dr. Santanu Mishra, IIT Kanpur
01:15 PM - 02:15 PM	Lunch
02:15 PM - 3:30 PM	RTDS / Typhoon HIL Simulation Batch 1 - J Sreenath, IIT Kanpur/ Dr. Anju Meghwani, IIT Kanpur
3:30 PM - 3:45 PM	Tea Break
03:45 PM - 5:00 PM	RTDS / Typhoon HIL Simulation Batch 2 - J Sreenath, IIT Kanpur/ Dr. Anju Meghwani, IIT Kanpur
7:30 PM Onwards	Course Dinner
Day 4: 12 May	
09:15 AM - 10:30 AM	Smart Grid protocols - Dr. Ankush Sharma, IIT Kanpur
10:30 AM - 11:45 AM	Smart Grid Regulatory Challenges – Dr. Anoop Singh, IIT Kanpur
11:45 AM - 12:00 PM	Tea Break
12:00 PM - 01: 15 PM	Energy Market in Smart Grid – Dr. Prabodh Bajpai, IIT Kharagpur
01:15 PM - 02:15 PM	Lunch
02:15 PM - 3:30 PM	RTDS / Typhoon HIL Simulation Batch 2- J Sreenath, IIT Kanpur/Dr. Anju Meghwani, IIT Kanpur
3:30 PM - 3:45 PM	Tea Break
03:45 PM - 5:00 PM	RTDS / Typhoon HIL Simulation Batch 1- J Sreenath, IIT Kanpur/ Dr. Anju Meghwani, IIT Kanpur
Day-5: 13 May	
09:15 AM - 10:30 AM	Smart Grid Security- Dr. Sandeep Shukla
10:30 AM - 11:45 AM	Smart Grid experience in CESC- Mr. Rajib Das, CESC
11:45 AM - 12:00 PM	Tea Break
12:00 AM - 01: 15 PM	Smart Grid Interoperability - Dr. Ankush Sharma, IIT Kanpur
01:15 PM - 02 :00 PM	Valedictory / Closing
02:00 PM – 03:00 PM	Lunch
03:00 PM - 05:00 PM	Lab Visits and Discussions