

ICT Academy Short Term Training Programme (STTP) for "Power Electronics for Smart Grid and Renewable Energy Control" from 15/05/2017 to 19/05/2017

Principle Advisor: Prof. RA Gupta,

Course Coordinators: Dr. Arun Kumar Verma & Dr. Vijayakumar K

Program Schedule

Venue: Malaviya Sabhagar(First Floor) and Lab-1, Prabha Bhawan, MNIT Jaipur.

Day/Time	09.00 -10.30	10.30 - 10.45	10.45-12.15	12.15 - 13.45	13.45-15.45	15.45 - 16.00	16.00-19.00
15/05/17	Inaugural Talk on Renewable energy and smartgrid	Tea Break	Introduction to PV Systems	Lunch	Power electronic converters for PV system	Tea Break	Grid connected and stand alone PV system and associated control techniques
16/05/17	Introduction to Wind Systems		Power electronic converters for Wind system		Grid connected Wind system and associated control techniques		Stand alone Wind system and associated control techniques
17/05/17	Hybrid Wind-PV system and their control		Energy management system in Microgrid		Power Quality Issues, mitigation and Control		MATLAB Simulation Lab for Renewable Energy system - Part 1
18/05/17	Electric vehicles (V2G & G2V) and their present scenario in smart grid		Hydro Energy and their power electronic converters		Observer based coordinated control for multiple photovoltaic systems		MATLAB Simulation Lab for Renewable Energy system - Part 2
19/05/17	Hardware design of converters and controllers		Power System Operation in Uncertain and smart grid Environment		Soft Skills		Mini project

**Course Instructors (tentative) :** Prof. Bhim Singh IIT-Delhi; Dr. Sandeep Anand, IIT Kanpur; Prof. Udaykumar Y Director, MNIT-J; Prof. RA Gupta, MNIT-J; Dr. Rajesh Kumar, MNIT-J; Dr. Arun Kumar Verma, MNIT-J; Dr. Vijayakumar K, MNIT-J; Dr. Rohit Bhakar, MNIT-J; Dr. Prerna Jain, MNIT-J; Dr. Neeli Satyanarayana, MNIT-J; Dr. Nitin Gupta, MNIT-J.