WORKSHOP ON

PROTECTION AND STABILITY OF RENEWABLE DOMINATED POWER GRIDS

भारतीय विज्ञान संस्थान

Education Centre for Continuing

2-4 January, 2023,
Dept: of Electrical Engineering,
IISc Bangalore, India

Who will benefit from the course ?
This workshop is intended for students, researchers, faculty from academic and technical education; staff from private and government industries

SPEAKERS


Prof. Sukumar Brahma
Clemson University, USA


Prof. Prasad Enjeti
Texas A&M University, USA


Prof. Vinod John
IISc


Prof. Kaushik Basu
IISc


Prof. Gurunath Gurrala
IISc


Dr. Ritwik Majumder
Mathworks


Dr. Vishnu Mahadeva Iyer
IISc


Prof. Sarasij Das
IISc

OBJECTIVE

Inverter-based resource technologies are rapidly replacing synchronous ac rotating machinery in electrical power grids all over the world. Power electronic converters are used for interfacing these renewables with the grid. This introduces multiple technical challenges to the power systems. The objective of this workshop is to discuss various stability and protection aspects of grid integration of renewables.

TOPICS COVERED

- ***Overview of Photovoltaic and Wind Generations***
- ***Converter Controls for Renewables***
- ***Grid Connection Requirements***
- ***Impact of Renewables on Fault Analysis and Protection***
- ***Impact of Renewables on System Stability***
- ***Case Studies***
- ***Training on Renewable Modelling in PSCAD***
- ***AC Microgrids***
- ***DC Microgrids***

Registration

This course can be attended only by registration. Registration will be accepted on first-come first-serve basis.

Registration Fee
Academia : INR 2500+ GST
Industry : INR 5000+ GST

Registration Deadline: 4th December, 2022
Registration link
Click here

Limited guest house accommodations available on additional payment basis