



WORKSHOP ON

PROTECTION AND STABILITY OF RENEWABLE DOMINATED POWER GRIDS



**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



Dr. Ritwik Majumder
Mathworks



Prof. Vinod John
IISc



Prof. Kaushik Basu
IISc



Prof. Gurunath Gurrala
IISc



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

<https://iisc.online/shortterm/home.html>

*Limited guest house accommodations
available on additional payment basis*