

STABILITY AND PROTECTION OF RENEWABLE DOMINATED POWER GRIDS

COURSE CO-ORDINATOR

PROF. SARASIJ DAS, IISC



Venue:

Department of Electrical Engineering
Indian Institute of Science (IISc) Bangalore

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

Course Schedule

6th to 9th January, 2025

Registration Deadline; 8th Dec 2024

Course Mode: Offline



भारतीय विज्ञान संस्थान

Who will benefit from the course?

This workshop is intended for students, researchers, faculty from academic and technical institutions, staffs from private and government industries and institutions. Hands-on sessions will be provided on the Matlab Simulations of Grid-Following Inverters.

Featured Speakers:

Prof. Sukumar Kamalasan

Duke Energy Distinguished Professor of Electric Power Engineering, University of North Carolina at Charlotte (UNCC)



Prof. Nilanjan Ray Chaudhuri

Associate Professor, Pennsylvania State University (Penn State)



List of Speakers:

Prof Sukumar Kamalasan,

University of North Carolina at Charlotte, USA

Prof Nilanjan Ray Chaudhuri,

Pennsylvania State University, USA

Prof Animesh Sahoo, IIT Dharwad

Prof Vinod John, IISc

Prof Kaushik Basu, IISc

Prof Vishnu Mahadev Iyer, IISc

Prof Sarasij Das, IISc

Industry Speakers: TBD

List of Topics Covered:

Overview of Photovoltaic and Wind Generations; Grid Code Requirements; Introduction to Grid Following and Grid Forming IBRs; Small Signal Stability of IBRs: Modelling Adequacy; Transient Stability of Grid Following IBRs; Frequency Support from Grid Forming IBRs; Reactive Power Management in Inverter Dominated Systems; Fault Analysis of Power Systems with Grid Following Inverters; Protection Issues in Renewable Dominated Power Grids; Power Quality Issues in Inverter Dominated Systems; Energy Storage for Renewable Dominated Power Grids; Microgrids; Transition Control of Dual-mode Inverters in Microgrids; Case Studies; Hands on Training of Inverter Modelling in MATLAB.

Limited accommodations (non-AC) available at a hotel with 1200 INR/night rate near IISc on the first come first serve basis against payment by the attendees.



Registration Fee:

Student/Project Assistants: INR 5000+18% GST

Post-Docs: INR 6000+18% GST

Faculty of College/University: INR 10000+18% GST

Industry: INR 15000+18% GST

Contact Us

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