



Workshop on Control Strategies for Wind Energy Conversion Systems August 30 – September 1, 2025

Organized by: Department of Electrical Engineering, National Institute of Technology Silchar

Sponsored by:



Scheme for Promotion of Academic and Research Collaboration

Scheme for Promotion of Academic and Research Collaboration (SPARC), Ministry of Education, Govt. of India

Control Strategies for Wind Energy Conversion Systems

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ABOUT THE WORKSHOP

In wind energy conversion systems, controlled power generation is essential for efficient power generation and the safety of the personnel, plant, and environment. The power control of a wind power plant (WPP) limits the share of available wind power using aerodynamic and generator control. Generator control utilizes the power electronics converter control. The goal of this workshop is to provide details of various modern control strategies employed in WPPs.

RESOURCE PERSONS

Speakers from the University of New South Wales (UNSW), Australia and NITs will be handling the session.

COORDINATORS

Dr. Rukmi Dutta

(Professor)

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ABOUT SPARC

Scheme for Promotion of Academic and Research Collaboration (SPARC) aims at improving the research ecosystem of India's Higher Educational Institutions by facilitating academic and research collaborations between Indian Institutions and the best institutions in the world from 28 selected nations to jointly solve problems of national and/or international relevance.

ABOUT EE DEPARTMENT, NIT SILCHAR

The Department of Electrical Engineering, NIT Silchar offers B.Tech in Electrical Engineering and M.Tech in two specializations: (i) Power and Energy Systems Engineering and (ii) Control and Industrial Automation. It also offers well integrated Ph.D. programme in the frontire areas of Electrical Engineering. The department has state-of-the-art lab facilities, including the Machine Lab, Power Systems Lab, Advanced Control Lab, Microprocessor & Embedded Systems Lab, and Computational Lab. It regularly organizes seminars, workshops, and conferences at national and international levels. The faculty members specialize in diverse fields, fostering a strong research environment.

ORGANIZER

Chief Patron:

Prof. Dilip Kumar Baidya
Director, NIT Silchar

Patrons:

Prof. N. B. Dev Choudhury
Dean (R&C), NIT Silchar

Dr. Tanmoy Malakar
HOD, EE Department

Organizing Committee Members:

All faculty members of the Electrical Engineering
Department

WORKSHOP VENUE

Seminar Hall

Department of Electrical Engineering
National Institute of Technology Silchar, Assam

TARGET AUDIENCE

Faculty members, Research Scholars, PG and UG Students, Persons from Industries, and Research Institutes (Applicable for all disciplines of Engineering and Basic Science). The entry is restricted to 60 participants and it will be on a first come first serve basis. Shortlisted participants of the workshop will be intimated via email.

REGISTRATION

Registration fee: NIL
Mode of Workshop: Hybrid
Last date of registration: 24/08/2025
Registration Link:

<https://forms.gle/KK1ddBgVM67UM7Y>



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*“Upon successful completion, participants will
be awarded certificates”*