

Committee

Chief-Patron	Prof. Dilip Kumar Baidya Director, NIT Silchar
Patrons	Prof. Nalin B. Dev Choudhury Dean (Research & Consultancy)
	Prof. B.K Roy
	Prof. Nidul Sinha
Chairman	Dr Tanmoy Malakar HOD, EED, NIT Silchar

Advisory Committee

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Prof. A. K. Goswami	Prof. J. P. Mishra
Dr. D. C. Das	Dr. C. Bhattacharjee
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Dr. Sreejith. S	Dr. S. Mansani
Dr. Ashish Paramane	Dr. Vivekanandan S
Dr. M. Balimidi	Dr. Debayan Sarkar
Dr. B. Ganguly	Dr Biswajit Sahoo

Important Dates

Last Date of Registration: 31-Aug-2025
Workshop Dates: 6th to 10th Sept 2025

Registration

Registration Fee for external participants INR 250/-

Scan and upload the signed application form using the below google form. Scan the QR code to pay the registration fees



<https://forms.gle/dWoHf133L6FNjrzW8>

Eligibility of Participation

This program is open to Faculty Members, Research Scholars, and M.Tech. /M.Sc. and B.Tech. Students of technical institutions, engineering colleges, polytechnics, Universities and other recognized institutions. The number of external participants is limited to 25. Shortlisted candidate will be communicated through email. Certificate will be issued to all participants having attendance above 90%.

Accommodation and Travel

Please note that TA/DA or accommodation will not be provided to the participants. However, refreshments will be arranged for all participants during the workshop. Lunch will be arranged for external participants in the institute guest house.

Conveners

Dr. Ambrish Devanshu
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Co-Convenor

Dr. Sreenu Sreekumar
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अनुसंधान नेशनल रिसर्च फाउंडेशन
**Anusandhan National Research Foundation
(ANRF) Govt. of India
Funded One Week Workshop**

**On
Next Generation Technology for Energy
Sustainability & Climate Resilience**

(NGT-ESCR-2025)

6th to 10th Sept. 2025

Organized By:



**Electrical Engineering Department,
National Institute of Technology Silchar**

About the Department

The Department offers B.Tech. in Electrical Engineering and M.Tech. in two specializations (i) Power and Energy Systems Engineering & (ii) Control and Automation. The department also offers Ph.D in Electrical Engineering. The department is equipped with state of art laboratories to train the UG, PG and Ph. D scholars to cater research in the frontier research areas of Electrical Engineering. The faculty members are specialized in diverse fields and there is commendable research ambience in the department. Department of Electrical Engineering takes up sponsored R & D projects by various funding agencies.

About NIT Silchar

National Institute of Technology, Silchar is one of the 31 National Institutes of Technology of India and was established in 1967 as a Regional Engineering College in Assam. In 2002, it was upgraded to the status of National Institute of Technology and was declared as Institute of National Importance under the National Institutes of Technology Act, 2007. NIT Silchar is a fully residential campus situated on the banks of river Barak and on a sprawling campus spread over 625 acres of land surrounded by scenic tea gardens on the outskirts of Silchar. NIT Silchar is a teaching and research institute which reflects in the top NIRF rankings.

About the Course

The workshop on Next-Generation Technology for Energy Sustainability & Climate Resilience aims to highlight the critical importance of advancing sustainable energy systems to address pressing global

and national challenges. With the increasing demand for clean energy and climate-resilient infrastructure, this event will focus on cutting-edge solutions like renewable energy integration, smart grids, power electronics, and electric vehicles (EVs). It promotes interdisciplinary collaboration, research, and innovation to reduce carbon emissions, enhance energy efficiency, and create adaptive strategies for global environmental and energy transitions. The workshop targets to bring together experts, researchers, and professionals to explore cutting-edge innovations and strategies in sustainable energy systems and climate-resilient technologies. Participants will gain insights into the present status of these technologies, their practical applications, and the prospects for future research and development.

Course Objective

- Explore renewable generation, green hydrogen technologies, and EV technologies for sustainable energy systems.
- Address challenges and the use of artificial intelligence in energy management and power system operations in integrating renewable energy sources for achieving energy efficiency and grid stability.
- Foster climate-resilient infrastructure and technologies to combat environmental changes.
- Advance research on power electronics and motor control for energy-efficient and fault-tolerant systems.
- Explore, address and promote power electronics solution, smart grid technologies thermal management for sustainable EV adoption
- Facilitate interdisciplinary collaboration among academia, industry, and policymakers to advance sustainable development
- Promote knowledge-sharing on emerging solutions for reducing carbon emissions and enhancing climate adaptability globally.

REGISTRATION FORM

ANRF Funded Workshop on

Next-Generation Technology for Energy Sustainability & Climate Resilience

[NGT-ESCR-2025, 6th to 10th Sept 2025]

1. Name (block letter): _____

2. Designation: _____

3. Organization and Department: _____

4. Address for communication: _____

_____ Pin code: _____

5. Ph. No.: _____

6. E-mail: _____

7. Educational Qualification: _____

Place:

Date:

Signature of the applicant