

## Committee

<b>Chief-Patron</b>	<b>Prof. Dilip Kumar Baidya</b> Director, NIT Silchar
<b>Patrons</b>	<b>Prof. (Mrs.) Brinda Bhowmick</b> Dean (Academic)
	<b>Prof. Nalin B. Dev Choudhury</b> Dean (Research & Consultancy)
	<b>Prof. Parthasarathi Choudhury</b> Dean (Faculty Welfare)
<b>Chairman</b>	<b>Prof. Arup Kumar Goswami</b> HOD, EED, NIT Silchar

## Advisory Committee

Prof. Nidul Sinha	Prof. B. K. Roy
Prof. S. Chaudhury	Prof. L. C. Saikia
Dr. T. Malakar	Prof. J. P. Mishra
Dr. D. C. Das	Dr. C. Bhattacharjee
Dr. Prasanta Roy	Dr. Rajeeb Dey
Dr. R. K. Biswas	Dr. Saheli Ray
Dr. A. Kumar	Dr. D. K. Raju
Dr. Partha Kayal	Dr. N. Adhikary
Dr. Tapan Pradhan	Dr. Avadh Pati
Dr. Asha Rani M A	Dr. Sreejith. S
Dr. S. Mansani	Dr. Ashish Paramane
Dr. S. Sreekumar	Dr. M. Balimidi
Dr. Vivekanandan S	Dr. B. Ganguly

## Important Dates

Last Date of Registration: 08-Sept-2024

FDP Dates: 12<sup>th</sup> to 16<sup>th</sup> Sept. 2024

## Registration

**Registration Fee: Nil**

Register Online through the below link:

<https://forms.gle/ZKxgd8YCQ8PEPgu6A>

**Note:** *Certificates will be issued only to the registered participants with a minimum of 80% attendance throughout the program.*

## Eligibility of Participation

Students and teachers from AICTE recognized engineering colleges/Institutions; practicing engineers from public/private organizations with minimum qualification of Bachelor's Degree in any branch of Engineering/ or its equivalent. Research scholars are eligible for registration.

## Contact Details

**Dr. Ambrish Devanshu**

Assistant Professor

Dept. of Electrical Engineering, NIT Silchar

Email: [ambrish@ee.nits.ac.in](mailto:ambrish@ee.nits.ac.in)

Mobile: 9599755664

**Dr. Srikanth Allamsetty**

Assistant Professor

Dept. of Electrical Engineering, NIT Silchar

Email: [srikanth@ee.nits.ac.in](mailto:srikanth@ee.nits.ac.in)

Mobile: 9581175299

**Dr. Debayan Sarkar**

Assistant Professor

Dept. of Electrical Engineering, NIT Silchar

Email: [debayan@ee.nits.ac.in](mailto:debayan@ee.nits.ac.in)

Mobile: 7602995170

**Dr. Biswajit Sahoo**

Assistant Professor

Dept. of Electrical Engineering, NIT Silchar

Email: [biswajitsahoo@ee.nits.ac.in](mailto:biswajitsahoo@ee.nits.ac.in)

Mobile: 7978752395



**One Week  
Online Faculty Development  
Program  
On**

**Sustainable Energy Technologies and  
Green Mobility: Present Status and  
Future Prospects  
(SETGM 2024)**

**12<sup>th</sup> to 16 Sept. 2024**

## Conveners

Dr. Ambrish Devanshu

Dr. Srikanth Allamsetty

## Coordinators

Dr. Debayan Sarkar

Dr. Biswajit Sahoo

## 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

This online FDP, titled “**Sustainable Energy Technologies and Green Mobility: Present Status and Future Prospects,**” aims to offer an in-depth understanding of the current advancements and future trends in these critical areas. The program will explore a variety of topics, including the latest innovations in renewable energy sources, sustainable energy systems, energy storage solutions, and the development of green mobility technologies.

The concept of sustainable technologies, exploring advancements in areas such as solar, wind, and bioenergy, as well as smart grid and microgrid systems, sustainable buildings, and energy-efficient practices will be taken care of. This program will also emphasize on green mobility, exploring advancements in electric vehicles, hybrid systems, hydrogen fuel cells, and sustainable transportation infrastructure. Participants will gain insights into the present status of these technologies, their practical applications, and the prospects for future research and development.

This FDP is designed for faculty members, industry professionals, and researchers from AICTE/UGC-recognized institutions and universities, providing them with the knowledge and skills necessary to contribute to the advancement of renewable energy and sustainable mobility solutions.

## Course Objectives

To enrich the participants with

- ✚ Power Electronics Converter for EV Charging Application
- ✚ Designing of Switching Converters for Microgrid Application
- ✚ Mitigation of Cross-Coupling Effects in PV Systems
- ✚ Co-ordinated Control Strategy for Long-Term Sustainability of Microgrid
- ✚ Design of Power Converters Based on Wide Band Gap Devices
- ✚ Effect of Temperature on Dielectric Response of Power Transformer Insulation System
- ✚ Kalman Filtering for Target Tracking Applications
- ✚ Radio Frequency Energy Harvesting (RFEH)
- ✚ Electric Vehicle Charging Infrastructure
- ✚ Power Electronic Converters, Multilevel Inverters.

## Resource Persons

- ✚ Dr. Piyush Kant, IIT Kanpur
- ✚ Dr. Abhinoy Kumar Singh, IIT Patna
- ✚ Dr. Taimoor Khan, NIT Silchar
- ✚ Dr. Arnab Ghosh, NIT Rourkela
- ✚ Dr. Susmita Kar, NIT Rourkela
- ✚ Dr. Suneel Raju Pendem, MNNIT Allahabad
- ✚ Dr. Narendrababu A, VNIT Nagpur
- ✚ Dr Vijay Kumar Singh, RGIPT Amethi
- ✚ Dr. Saurabh Dutta, Post-Doctoral Research Fellow, University of Malaya, Malaysia
- ✚ Dr. Nikhil Kumar Sharma, Lead Systems Engineer, General Electric (GE)