

Two Weeks National Workshop

On

Emerging Trends in Smart Grid and Sustainable Energy Technology

3rd – 12th Sept 2021



Organized by

Department of CS, EC and EE

**National Institute of Technology Meghalaya
Bijni Complex, Laitumkrah, Shillong, -793003**



Chief Patron

Prof. B. B. Biswal, Director, NIT Meghalaya

Organising Chair

Prof. Gayadhar Panda, Dean(AA), NIT Meghalaya

Convenors

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Experts/Resource Persons

Faculties from various IITs, NITs, Industry personnel and in-house faculties

Who Can Register

Faculty member, Industry Expert, Engineers from R&D organization and Research Scholars

How to Register

- Interested participants may apply through online registration link: http://nitm.ac.in/events/Workshop_On_Smart_Grid on or before 29th Aug 2021
- The number of participants is limited to 60.
- Participant's registration will be confirmed on first come first serve basis.
- Certificate will be issued to those participants who attend all the sessions online.

About the Workshop

This workshop is designed to address recent advancements in the area of Smart Grid. Smart Grid is a cutting edge technology undergoing a significant transition with increasing penetration of renewables and advent of new sensing, computing, control and communication technology. The course will offer a unique platform to the scientists of R&D sectors, practicing engineers, academicians and research scholars working in the relevant areas through detailed expert talk. The expert talk will include blend of recent advancements, challenges and solutions in smart electric grid technologies.

Program Contents

- ❖ Potential application of signal processing in smart Microgrid
- ❖ Machine Learning techniques used for Smart Microgrid
- ❖ Advanced control techniques for Microgrid operation
- ❖ Advanced power converters used for integration of RES
- ❖ Protection schemes for micro grid
- ❖ Intelligent communication and Big data analytics for Smart Grid operation
- ❖ Cyber security in smart grid

Important Dates

Last date of application received	29 th Aug 2021
Intimation of participation	31 st Aug 2021

Registration Fee

PG, PhD, Research scholar	Rs. 500/-
Faculty	Rs. 800/-
Industry and R&D Organization Personal	Rs. 1500/-

About NIT Meghalaya

National Institute of Technology Meghalaya is one among the thirty NITs in India established under the NIT Act 2007 (Amended 2012) of the Parliament of India as Institutes of National Importance with full funding support from the Ministry of Human Resource Development, Government of India. NIT Meghalaya was established in the year 2010 as joint venture of Govt. of India and Govt. of Meghalaya with granted permanent campus of around 450 acres at Sohra, Cherrapunjee. The institute is functioning in its temporary campus at Shillong in East Khasi Hills district of Meghalaya and is about 2 kms from the main bus stand of Shillong on Police bazaar – Laitumkhrah roadway. The city of Shillong is well connected with rest of country by road. The nearest railway station is at Guwahati (Assam), at a distance of 90 kms from Shillong. The nearest airport is within city (15 kms). The place has healthy climate with temperature ranging from 07°C to 16°C during December and is at an altitude of 1520 meters.

The Vision: A Centre of Excellence vibrant with academic activities and bubbling with youthful creative energy, making significant contribution to the World of Knowledge and Technology and to the Development of the State, the Region and the Nation.



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