

3rd International Symposium

On

Sustainable Energy and Technological Advancements (ISSETA 2024)

Hybrid Mode Event: 24-25 February 2024

Department of Electrical Engineering

National Institute of Technology Meghalaya, Shillong, India



Theme of Symposium

ISSETA 2024 is the 3rd International Symposium on Sustainable Energy and Technological Advancements, which is being organized by the Department of Electrical Engineering, NIT Meghalaya, Shillong, India during 24th – 25th February 2024 Hybrid Mode Event. This symposium will provide an opportunity to the practicing engineers, academicians and researchers to meet in a common forum to discuss various issues and its future direction in the field of sustainable energy developments. The different tracks in the symposium mainly focus on the sustainable energy, power technologies and computing. This symposium will be an interdisciplinary platform for the researchers to contribute their research works that address development and methodologies for the futuristic sustainable smart energy system.

About NIT Meghalaya

National Institute of Technology Meghalaya (established in 2010 under the NIT Act 2007 as an Institute of National Importance) is one among the 31 NITs in India. NIT Meghalaya is ranked 60th position by NIRF, 56th position by Business World and 26th position under Top 35 Government Engineering Colleges by India Today in 2022. The Institute has five Engineering Departments: Mechanical, Civil, Electrical, Electronics & Communication and Computer Science & Engineering; three Basic Science Departments and Humanities & Social Sciences. Its permanent campus is being set-up at Sohra (Cherrapunjee), Meghalaya which is endowed with pristine beauty and greenery.

Currently, 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 100 kms from Shillong. The nearest airport is within city (25 kms). The place has healthy climate with temperature ranging from 15°C to 25°C during March and is at an average altitude of 1496 m above sea level.

About Department

The Department of Electrical Engineering was established in the year 2010. The Department offers B.Tech with intake capacity of 30, M.Tech with intake capacity of 20, and PhD programmes. The department is well equipped with laboratories; computers, latest simulation software's and our students are exposed to recent technologies and techniques. The department has well experienced and dedicated faculty members with different specializations.

Important Dates

Submission Deadline: 15th Nov, 2023
Acceptance: 25th Jan, 2024
Registration: 10th Feb, 2024

Contact Information

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Symposium Tracks

Track-1 (Modern Power Systems)

Sustainable energy technologies for power generation, transmission, distribution, energy conversion, and storage, Power quality and harmonic analysis, Advanced microgrid and smart grid technologies, Protection schemes, Power system monitoring, Control and energy management, Islanding detection and control

Track-2 (Renewable Energy Sources)

Renewable energy sources and Technology, Solar/Wind energy systems and its integration, Solar/Wind forecasting and monitoring, Distributed generation and its application in Standalone/Grid systems, Integration of energy storage systems, Biomass, Hydrogen based sources, Energy Harvesting, Green energy issue, Integration of multiple energy sources

Track-3 (Advanced Power Converters)

Advanced power converter topologies, Modulation techniques & control, Application of power converters for renewable energy systems, traction, aircraft/space applications biomedical and industrial application, High-power and high-gain converters

Track 4 (Smart Grid Technologies)

HV techniques in smart grids and renewable energy integration, Smart Energy Prosumers, Battery technology, Battery Management System, Demand Side Management, Electric Vehicles, G2V and V2G applications, Smart building technology, HVDC and FACTS, Diagnostics, maintenance, reliability, and self-healing of smart/micro grids, Uncertainty management in smart grid planning, Smart grid impacts on electricity markets, pricing and incentive/penalty schemes.

Track-5 (Communication and Networking)

Standards and codes for smart grids, Information and communication technologies for smart grids, Cyber-security, IoT, Machine learning techniques and Data analytics for smart/micro-grids, Robotics, Control, Instrumentation and Automation.

Registration (Hybrid Mode ISSETA)

Author Category	Indian Delegates	Foreign Delegates
Delegates from Industry/Academia	₹ 6000	\$ 200
Students	₹ 3500	\$ 100

Publication

All accepted, registered and presented papers in the symposium will be published in the Springer Book Series Lecture Notes in Electrical Engineering. This series is indexed by EI Compindex and Scopus databases.(Subject to approval).

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