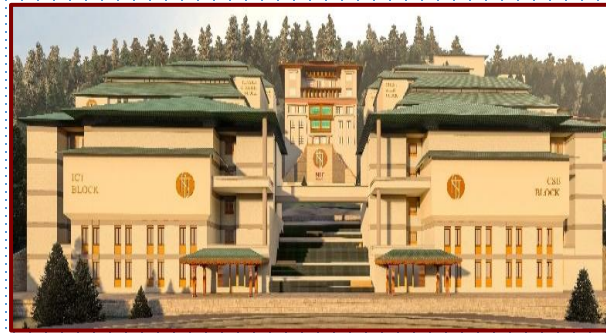


About the Institute, NIT Sikkim

The National Institute of Technology Sikkim is a public technical and research institute located in Ravangla. Established in 2010 by the Government of India, it is one of the 31 National Institutes of Technology and is recognized as an Institute of National Importance. The institute offers undergraduate, postgraduate, and doctoral programs in engineering, science, and humanities, including B.Tech, M.Tech, M.Sc., and Ph.D. degrees. Admission to the B.Tech program is based on JEE Main followed by JoSAA counseling, while M. Tech admissions are primarily through GATE. The institute currently operates from its campus in Ravangla and is developing a permanent campus at Khamdong in Sikkim. Known for its scenic Himalayan surroundings and growing research activities, NIT Sikkim is gradually strengthening its academic reputation, infrastructure, and placement opportunities in India's engineering education system.

About Sikkim

Sikkim, a small but picturesque state nestled in the northeastern part of India, is known for its breathtaking landscapes, rich biodiversity, and vibrant cultural heritage. Bordered by Bhutan, Tibet, and Nepal, it is home to the majestic Kanchenjunga, the third-highest mountain in the world. Sikkim boasts a unique blend of ethnic communities, including Lepchas, Bhutias, and Nepalese, each contributing to its diverse traditions and festivals. The state is also noted for its environmental consciousness, being the first fully organic state in India.



Program outcomes

- Participants will gain fundamental knowledge of digital transformation concepts in modern power systems.
- Develop insights into smart grid architecture, automation, and intelligent monitoring systems.
- Understand AI-based approaches for efficient integration and management of renewable energy resources.
- Gain knowledge of cybersecurity challenges and AI-driven solutions in digital power networks.
- Enhance the capability to solve complex power system problems using AI and computational techniques.
- Promote sustainable and energy-efficient solutions through intelligent system design.

Target Participants

- Faculty members, Research scholars, students, and staff from the institution

Key Focus Areas

- AI & Machine Learning in Power Systems
- Smart Grid & Intelligent Automation
- Data Analytics & Digital Technologies
- Renewable Energy Integration
- Cybersecurity & System Resilience
- Advanced Control & Optimization Techniques



राष्ट्रीय प्रौद्योगिकी संस्थान सिक्किम
NATIONAL INSTITUTE OF TECHNOLOGY SIKKIM

(An Institute of National Importance, Ministry of Education, Govt. of India)

Online Workshop on “Digital Transformation in Modern Power Systems: Application of AI in Intelligent Power Systems.”

05th May to 09th May 2026



Organized by

Electrical and Electronics
Engineering Department, NIT
Sikkim



National Institute of Technology Sikkim
Ravangla, Barfung Block
South Sikkim- 737139 (India).

(An autonomous Institute under the aegis of the Ministry
of Education, Govt. of India)
website: <https://nitsikkim.ac.in/>

Resource persons

Experts from IITs, NITs and top Indian universities.

Who can attend?

The students, research scholar faculty members, and staff

Objectives of the workshop:

- To introduce digital transformation.
- To provide knowledge of AI and machine learning techniques.
- To enhance understanding of smart grids and intelligent automation.
- To develop skills in data analytics and real-time decision-making.
- To explore challenges and solutions in renewable energy integration.
- To create awareness of cybersecurity, resilience, and sustainability.

Background / Rationale

The power sector is undergoing rapid transformation as it integrates renewable energy and digital technologies. Traditional grids are evolving into intelligent, data-driven systems requiring real-time monitoring, automation, and smart decision-making. Technologies like AI, ML, IoT, and data analytics are essential for improving efficiency, reliability, and resilience. This workshop aims to equip participants with the knowledge and skills needed to apply these technologies in modern power systems and support sustainable energy development. In this context, the proposed workshop aims to bridge the gap between conventional power system practices and emerging digital technologies.



Patron

Prof. Mahesh Chandra Govil,
Director, NIT Sikkim

Convener (s)

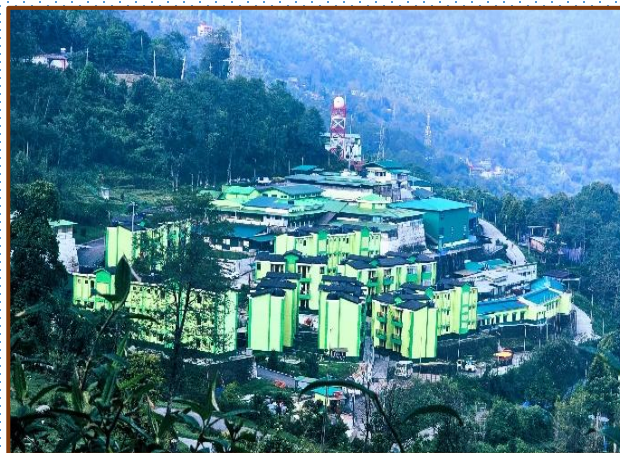
Dr. Nimai Charan Patel
Assistant Professor, EEE

Dr. Vivek Kumar
Assistant Professor, EEE

Co-ordinator

Dr. Abhishek Rajan,
Assistant Professor, EEE

Dr. Bam Bahadur Sinha
Assistant Professor, CSE



Advisory committee

Dr. Anjan Kumar Ray,
Associate Professor, EEE

Dr. Sourav Mallick,
Associate Professor, EEE

Dr. Aurobindo Panda,
Assistant Professor, EEE

Dr. Molay Roy,
Assistant Professor, EEE

Dr. Pradeep Kumar,
Assistant Professor, EEE

Dr. Shakti Vashisth
Assistant Professor, EEE

Registration Link:

[The initial 100 participants will be selected to take part in this workshop](https://docs.google.com/forms/d/e/1FAIpQLScJLVlarfddfdcnfZCFuUeF20NNQtWxOxQGVB5guX8QQvdR0Q/viewform?usp=header)

<https://docs.google.com/forms/d/e/1FAIpQLScJLVlarfddfdcnfZCFuUeF20NNQtWxOxQGVB5guX8QQvdR0Q/viewform?usp=header>



There is no registration Fee for participation

Contact us

Dr. Abhishek Rajan,

Email: rajan@nitsikkim.ac.in

Mobile: +91-9046227913

Dr. Bam Bahadur Sinha

Email:

bambahadursinha@nitsikkim.ac.in,

Mobile: +91-9199610251