

REGISTRATION DETAILS

The participants need to be nominated by the Principal/Head of the institution/ department. Research scholars may also apply based on self-nomination. There is no registration fee. The number of participants is limited to 25. The candidate will be selected on a first-come, first-served basis. The participants need to make their own arrangements for travel. Limited hostel accommodation will be provided by the institute. No TA/DA will be paid by NIT Meghalaya for attending the workshop. The workshop will be conducted in offline mode.



IMPORTANT DATES

Registration Deadline	Nov 14, 2025
Notification of confirmation of participation	Nov 17, 2025

ORGANIZING COMMITTEE

Patron

Prof. Pinakeswar Mahanta, Director, NIT Meghalaya

Chairman

Dr. Koushik Das, Associate Professor, ME

Convenor

Dr. Rubi Chakraborty, Assistant Professor, CE

Coordinators

Dr. Hriday Mani Kalita, Associate Professor, CE

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Dr. Sambit Majumder, Assistant Professor, ME

Dr. Moumita Tewary, Assistant Professor, ME

Dr. N. Johny Singh, Assistant Professor, CS

Members

Souradeep Bhowmick, ME

Bidyut Bikash Atryea, ME

Advisory Committee

Prof. Deba Kumar Sarma, ME

Prof. Ayon Bhattacharjee, PH

Prof. Comingstarul Marthong, CE

Dr. Prabir Kumar Saha, EC

CONTACT US

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Workshop on Design & Innovation in Pedagogies using AI & ML

An empowering approach for educators

November 24-28, 2025

Organized
by

Design Innovation Centre
NIT Meghalaya



राष्ट्रीय प्रौद्योगिकी संस्थान मेघालय

National Institute of Technology Meghalaya
Saitsohpen, Sohra-793108, Meghalaya
India

ABOUT THE WORKSHOP

The workshop is designed to equip the current and budding educators with essential skills to integrate artificial intelligence (AI) and machine learning (ML) into modern teaching practices. This program, aligned with the National Education Policy (NEP) 2020, aims to foster innovative approaches in education. Faculty members from degree colleges across Meghalaya will be the primary participants, making this a significant initiative for the North East region. The workshop will offer hands-on sessions, giving participants practical exposure to AI-ML tools relevant to education. Through expert talks and interactive workshops, attendees will explore how these technologies can enhance student engagement and learning outcomes. This initiative is expected to have a transformative effect on the teaching and learning ecosystem in Meghalaya. It will prepare educators to meet the evolving demands of the 21st-century education landscape. The program also aims to foster a culture of lifelong learning and technological adaptability among faculty. The workshop will contribute to raising the overall quality of higher education in the region.

ABOUT NIT MEGHALAYA

The National Institute of Technology Meghalaya is one among the 31 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 Education, Government of India. The Institute is situated at Saitsohpen, Sohra, Meghalaya, India. The Institute has five engineering departments as Mechanical Engineering, Civil Engineering, Electrical Engineering, Electronics and Communication Engineering and Computer Science and Engineering, four science departments Physics, Chemical & Biological Sciences, Mathematics and Humanity & Social Sciences. The institute offers B.Tech, M.Sc., M.Tech and Ph.D. Programs. With around 1000 students and 70 highly qualified faculties across various programs and streams, NIT Meghalaya secured 68th rank in NIRF. The B.Tech programs in the departments of Mechanical Engineering and Electrical Engineering are NBA accredited.

ABOUT DIC

The Design Innovation Centre (DIC) at NIT Meghalaya, established in 2018 under the hub-and-spoke model with IIT Guwahati as the hub, promotes design-driven innovation and creative problem-solving. The centre has provided funding for 16 innovative projects, connecting academia, industry, and society to develop practical solutions and strengthen the innovation ecosystem in the North-Eastern region.

OBJECTIVE

This program aims to achieve the following objectives for stakeholders in the education system of Meghalaya,

- Foster innovative pedagogical approaches and equip educators with the skills needed to utilize AI and ML tools for enhancing student engagement and learning outcomes.
- Equip educators with necessary tools to introduce flipped classroom, gamification and virtual/augmented reality to facilitate an interactive and engaging teaching-learning process.
- Utilize technology to make education accessible to students with diverse needs, including those with disabilities.
- Incorporate digital tools that enhance global connectivity and cultural awareness among students.
- The workshop will promote the integration of artificial intelligence in the curriculum in accordance with NEP 2020 guidelines.

COURSE CONTENT

In this workshop, resource persons shall deliver expert lectures on the following topics: Design and Innovation in modern pedagogical practices, Redefining Pedagogy using technology to transform traditional teaching methods, Educational Technology, OBS studio for flipped classroom, Open source video editors for flipped classroom, Selection of tools for interactive pedagogy, Enhancing Collaboration with AI, Ethical considerations, Gamification in Education, Future directions of AI in Education, AR and VR technologies, etc.

RESOURCE PERSON

Experts from institutions of repute and national importance like IIM Shillong, NESAC Umiam, NERIE NCERT Umiam and NIT Meghalaya will deliver the talks during the workshop.

WHO SHOULD ATTEND

Teachers, faculty members and budding educators from reputed academic, technical and non-technical institutions, schools and colleges in Meghalaya.

