शिक्षा मंत्रालय
MINISTRY OF
EDUCATION

सत्यमेव जयते

Self-Sponsored One Week Short-Term Course

Next-Gen Environmental Technologies Research Trends and Sustainable Solutions

[Online Mode]

12th to 16th January 2026

Civil Engineering Department

National Institute of Technology Agartala

Agartala, India, 799046

ABOUT THE DEPARTMENT

Civil Engineering Department is one of the largest and oldest department of NIT Agartala which was started in the year of 1965 with the inception of Tripura Engineering College. Civil Engineering Department is committed to contribute excellence in research, scientific and technical education to the nation. Department's mission is to impart quality education for fundamental knowledge in engineering science and technology with social responsibilities. Moreover, to develop the engineering background of students towards employability, entrepreneurship and higher learning. Also to undertake collaborative projects to create opportunities for long-term industry-academia interactions.

ABOUT THE INSTUTUTE

National Institute of Technology Agartala is one of India's premier institutes of higher education in engineering, science, and technology. Established in 1965 as Tripura Engineering College, it was later upgraded to a National Institute of Technology in 2006, gaining the status of an "Institute of National Importance" under an Act of Parliament. Located in Jirania, around 20 kilometers from Agartala, the capital of Tripura, the institute provides a vibrant academic environment amidst a serene natural setting. NIT Agartala offers undergraduate, postgraduate, and doctoral programs across various disciplines of engineering, science, and management. With a strong emphasis on research, innovation, and inter - disciplinary learning, the institute nurtures students to become skilled professionals and responsible citizens. Modern laboratories, advanced research facilities, a well-stocked library, and a growing focus on innovation and entrepreneurship enhance the learning experience. The Institute recently introduced a new curriculum in the line of IITs where more number of elective subjects are being offered to make the system flexible. Previously, the Institute used to follow the mark-based system of evaluation, but have been switching over to credit-based system in order to keep track with the global evaluation methods.

PREAMBLE

Environmental sustainability has become a crucial focus in civil engineering, as growing urbanisation, industrial development, and population increase continue to challenge natural resources and ecosystems. Solving environmental issues such as wastewater treatment, solid waste management, pollution control, and sustainable resource recovery requires not only innovative research but also skilled professionals and educators who can guide future engineers toward sustainable solutions. Emerging technologies, such as anaerobic digestion, waste-to-energy conversion, climate-resilient infrastructure design, and circular economy models are transforming the scope of environmental engineering education and practice. In this context, the Department of Civil Engineering, NIT Agartala, is organising a Faculty Development Program (FDP) on "Next Gen Environmental Technologies Research Trends and Sustainable Solutions". This FDP aims to strengthen the knowledge base of faculty members, researchers, and academicians by exposing them to cutting-edge technologies, advanced research trends, and innovative teaching and learning practices in the domains of environmental and civil engineering

OBJECTIVES

The FDP will broadly cover themes such as wastewater treatment and resource recovery, solid waste management, waste-to-energy technologies, sustainable water resources management, air and noise pollution control, climate-resilient and eco-friendly infrastructure, circular economy approaches in construction and environmental engineering, advanced monitoring and modelling techniques, and case studies showcasing sustainable practices in urban and rural development.

The broad objectives of the conference are:

- To disseminate knowledge on recent advancements in wastewater treatment, anaerobic digestion, solid waste management, and water quality monitoring.
- To highlight innovative approaches in sustainable water resources management, stormwater harvesting, and decentralised treatment systems.
- To explore circular economy concepts in construction and environmental engineering, focusing on resource recovery, waste-to-energy, and sustainable material reuse.
- To present case studies and success stories on sustainable treatment technologies.
- To create a collaborative platform for academicians, researchers, industry experts, and policymakers to exchange ideas, identify challenges, and develop futuristic strategies for sustainable urban and rural development.
- To encourage young researchers and students to engage in interdisciplinary research and contribute to solving environmental challenges at the regional, national, and global levels.

WHO SHOULD ATTEND

- Faculty/Scientists/Technologists from academic institutions/research organisations.
- B.Tech, M.Tech and PhD students from academic institutions.
- Engineers working in Govt and Private Sector.

REGISTRATION PROCESS

Please register by filling the google form for the course using the following link:

Registration Link : *https://forms.gle/dkQjAoYtNFqRuGcE6*

The last date for registration is 11th January 2026.
The link for the course shall be provided (Microsoft Teams/Google Meet/Zoom) by 11th January 2026.

Course Fee and Payment

The Course Fee is to be paid online in the account of NIT Agartala, the details of which are given below:

Participant Type	Internal (Faculty/Students of NIT Agartala)	External (Outside of NIT Agartala)
Students	₹ 200.00	₹ 590.00 (₹500+GST)
Research Scholar	₹ 200.00	₹ 590.00 (₹500+GST)
Faculty	₹ 1000.00	₹ 590.00 (₹500+GST)
Industrialist		₹ 590.00 (₹500+GST)

Beneficiary Name : Workshop Conference CE Deptt NITA
Account Number : 44755176047
Bank Name : State Bank of India
IFSC CODE : SBIN0011491
Branch : NIT Agartala Branch
Payment Mode : UPI / NEFT / SCAN QR

ORGANIZING COMMITTEE

Patron :

PROF. S. K. PATRA
Director, National Institute Technology Agartala.

Chairman :

PROF. DEB DULAL TRIPURA
Head of the Department of Civil Engineering.
National Institute Technology Agartala.

Course Coordinators :

DR. ANIMESH DEBNATH
Associate Professor, CE Department, NIT Agartala.
DR. SAGARIKA PANIGRAHI
Assistant Professor, CE Department, NIT Agartala.

Student Volunteers : (Phd Scholars)

Mr. RAHUL DAS, Ms. ANINDITA MITRA, Ms. TEEYASHA DAS, Mr. JAYANTA BHOWMIK, Mr. PRADEEO NONGTHOMBAM, Ms. RIVANDEE YAIKHOM

For any assistance, please contact :
Dr. Animesh Debnath & Dr. Sagarika Panigrahi
(+91) 85750 15404, +91 84363 63297
sagarika.ce@faculty.nita.ac.in
animesh.ce@faculty.nita.ac.in
Department of Civil Engineering
National Institute of Technology Agartala
Jirania, 799046, Agartala, Tripura.


EMINENT SPEAKERS
Mr. Neeraj Garg
Principal Data Scientist
Astro-Vision Futuretech Pvt. Ltd
Dr. Brajesh Kumar Dubey
Professor, IIT Kharagpur
Dr. Sunil Kumar
Senior Scientist & Head
CSIR - NEERI
Dr. Rajesh Roshan Dash
Professor, IIT Bhubaneswar
Dr. Babu J Alappat
Professor, IIT Delhi
Dr. Shweta Singh
Assistant Professor, IIT BHU
Dr. Mathava Kumar S
Associate Professor, IIT Madras
Dr. Subrata Hait
Associate Professor, IIT Patna
Dr. Makarand M Ghangrekar
Professor, Director
of NIT Puducherry
Dr. S Narayanasamy
Associate Professor,
IIT Guwahati
Innovation
is turning
waste
into a
resource