

International Conference

On

Global Climate Action: Strategies for a Sustainable Future

GCASSF 2025

Event: 28-29 August 2025

Hybrid Mode (both online and offline)

Department of Technical Education and Management

National Institute of Technical Teachers' Training & Research Kolkata, India



THEME OF CONFERENCE

The International Conference on "Global Climate Action: Strategies for a Sustainable Future" is scheduled to take place on 22-23 May, 2025. This conference aims to bring together researchers, policymakers, industry experts, and academicians to discuss innovative strategies and sustainable solutions to address global climate challenges. The event will provide a platform for knowledge sharing, fostering collaboration, and encouraging actionable steps towards a resilient and sustainable future. The conference aims to serve as a milestone event for global climate action, fostering collaboration and innovation to drive a sustainable future.

ABOUT NITTTR KOLKATA

The National Institute of Technical Teachers Training and Research (NITTTR) Kolkata has been a pioneer in advancing technical education and research. With a strong emphasis on sustainability and climate resilience, NITTTR Kolkata plays a crucial role in training educators, researchers, and industry professionals to develop solutions that align with global environmental goals. The institution is committed to fostering innovation in sustainable development, energy efficiency, and climate mitigation strategies.

ABOUT DEPARTMENT

Ineffective management of educational institutions, educational programs, etc. has often been at the root of poor-quality institutional performances. To address this lacunae, Technical Education and Management Department, since its inception, has been offering short-term training programs in different areas of institutional/organizational management, quality management, environmental management, training & development, Disaster Management and Climate Change. In general, the training programs are aimed at various clientele groups comprising not only the technical teachers' community but also other professionals belonging to different domains of the world of work. Besides training activity, a number of consultancy and research projects have been coordinated by the department in different areas of technical education.

CLIMATE CHANGE AND SUSTAINABILITY

Climate change poses significant risks to ecosystems, economies, and societies worldwide. The need for sustainable development has never been more urgent. This conference focuses on climate resilience, adaptation, and mitigation strategies to counteract the adverse effects of climate change. Topics such as sustainable energy, decarbonization, climate finance, and green infrastructure will be explored to equip stakeholders with the knowledge to implement sustainable practices.

TOPICS TO BE COVERED

Track 1: Sustainable Material, Mechanical Systems, and Climate

- Green Manufacturing and Sustainable Production Technologies
- Materials for Renewable Energy Systems
- Carbon Footprint Reduction and Green Design in Mechanical Engineering

Track 2: Sustainable Energy Engineering

- Renewable Energy Technologies: Innovation and Integration
- Energy Storage Systems
- Smart Grids and Energy Distribution
- Energy Efficiency in Industrial Applications

Track 3: Sustainable Management

- Corporate sustainability and ESG (Environmental, Social, Governance), Sustainability Reporting and Accountability
- Sustainable business models and green supply chains

Track 4: Sustainable Infrastructure and Green Building

- Green Building Design and Architecture
- Sustainable Building Materials and Technologies
- Energy-Efficient Infrastructure

Track 5: Sustainable Digital Technological Future

- The Role of Artificial Intelligence (AI) in Sustainability
- Green Computing and Sustainable IT Infrastructure
- Blockchain for Sustainability
- Digital Transformation for Sustainable Development
- Internet of Things (IoT) for Smart Sustainability

Track 6: Climate Change Policy

- Sectoral policies for emissions reduction (transport, energy, agriculture, etc.)
- Role of international organizations in climate policymaking (UNFCCC, IPCC, etc.)

Track 7: Climate Prediction and Climate Goals

- AI and machine learning applications in climate modeling
- Extreme weather event prediction and early warning systems.

Track 8: Building Resilience Against Climate Change – Adaptation

- Climate-resilient urban planning and infrastructure
- Innovative financing models for climate adaptation

WHO CAN ATTEND THE CONFERENCE

- Researchers and academicians
- Industry professionals and sustainability experts
- Policymakers and government officials
- NGOs and environmental organizations
- Students and climate activists

REGISTRATION PROCESS AND CHARGES

Participants must register through the official conference portal. Early bird registration will be available at discounted rates. Details of the fee structure are as follows:

Author	Indian (Early bird)	International (Early bird)	Indian (Regular)	International (Regular)
Student	Rs. 1000/-	\$ 25	Rs 1500/-	\$ 40
Academician	Rs. 2500/-	\$ 70	Rs 4000/-	\$ 100
Industry Professional	RS. 3000/-	\$ 80	Rs 4500/-	\$ 110

Invitation of Technical Papers to Be Published in Scopus Indexed Research Journals

Researchers are invited to submit original technical papers for peer review. Accepted papers will be published in Scopus-indexed journals. Guidelines for submission include:

- Full Paper Submission Deadline: **31 July, 2025**
- Notification of Acceptance of Paper: **10 August, 2025**

LINK FOR REGISTRATION

Participants can register at:

<https://docs.google.com/forms/d/1GyHOg92OJA8PIFPT5zrPlynslxS2kK5gLwB91JPxgM/edit>

- Early Bird Registration Closes on:** **10 August, 2025**
- Conference Date:** **28-29 August, 2025**

GUIDELINES FOR PAPER SUBMISSION AND PUBLICATION PROCESS

1. Paper Submission:

All participants are required to submit their full paper along with the registration fee by completing the designated Google Form. Each submission will undergo an internal review by the Review Committee.

2. Presentation Preparation:

Participants must prepare a PowerPoint (PPT) presentation for the conference. A prescribed PPT template will be shared by the organizers.

3. Eligibility for Journal Publication:

Only those papers that are presented during the conference will be considered for post-conference journal submission.

4. Journal Selection Post-Conference:

After the conference, a Google Form will be circulated to the authors of presented papers to indicate their preferred journal for publication.

5. Article Processing Charges (APC):

- Some of the listed journals do not require any charges.
- Others may involve APCs, which must be paid directly by the authors after acceptance by the respective journal.

6. Final Review and Publication Timeline:

The final peer review and publication decision lies solely with the selected journal. The

timeline for publication will depend on the journal's internal review and processing schedule.

IMPORTANT NOTE

Each author must register for the conference for every full-length paper submitted. All authors will receive a certificate of participation, and the presenting author will receive a certificate of presentation.

All accepted manuscripts will be included in the electronic conference proceedings, which will be provided during the event.

CHIEF PATRON

Shri Sajjan Bhajanka, BOG Chairman, NITTTR Kolkata.

PARTRON

Prof VMSR Murthy, Director, NITTTR, Kolkata.

INTERNATIONAL COMMITTEE MEMBERS

- Prof. J. Paulo Davim, Professor, Department of Mechanical Engineering, University of Aveiro, Portugal.
- Dr. Yogesh Kumar Singla. Assistant Professor, School of Engineering, Math & Technology, Navajo Technical University, USA.
- Dr. Himanshu Panjiar, Jimma University, Faculty of Materials Science and Engineering, Jimma, Ethiopia.
- Dr. Pawan Kumar Tripathi. Assistant Research Professor, Case Western Reserve University, OH, USA
- Edmilson Otoni Correa, Full Professor at Federal University of Itajuba, Minas Gerais, Brazil

NATIONAL ADVISORY COMMITTEE

- Prof D. N. Reddy, Ex VC, JNTU, Hyderabad
- Prof A M Agrawal, Ex Advisor, AICTE and VC, United University, Prayagraj
- Prof D. S. Chauhan, Ex VC, Dr APJAKTU, Lucknow
- Er Prabhat K Jha, Ex GM, Maruti Udyog Limited

- Prof S P Harsha, Professor, MIED, IIT Roorkee
- Prof V K Shrivastava, Professor (Retd.), IIT Delhi
- Prof M. M. Mahapatra, Professor, Mechanical Sciences, IIT Bhubaneswar
- Prof Ajay S. Kalamdhad, Dept. of Civil Engineering, IIT Guwahati
- Prof M. K. Jha, Principal, MIT Muzaffarpur
- Prof Bimlesh Kunwar, Professor, Dept of Civil Engineering, IIT Guwahati.

TECHNICAL COMMITTEE

- Prof Gayadhar Panda, Dean (FAA), NITTTR Kolkata
- Prof Chandan Chakraborty, Dean (RPD), NITTTR Kolkata
- Prof Niladri Pratap Maity, CoE, NITTTR Kolkata
- Prof Urmila Kar, HoD, Dept of Technical Education & Management, NITTTR Kolkata
- Prof Subrata Mondal, HoD, Dept. of Mechanical Engineering, NITTTR Kolkata
- Prof Naveen B. P., HoD, Dept. of Civil Engineering, NITTTR Kolkata
- Dr Sagarika Pal, HoD, Dept. of Electrical Engineering, NITTTR Kolkata

ORGANISING COMMITTEE

- Prof Anil Kumar, Dept. of Technical Education & Management, NITTTR Kolkata
- Dr. Deepak Mehra, Dept. of Mechanical Engineering, NITTTR Kolkata
- Dr Kunwar Raghvendra Singh, Dept. of Civil Engineering, NITTTR Kolkata
- Dr Arpan Kumar Mondal, Dept. of Mechanical Engineering, NITTTR Kolkata

CONVENOR

Prof Anil Kumar, Dept. of Technical Education & Management, NITTTR Kolkata-700106
Email: anil@nitttrkol.ac.in
Mob: 9007560314

CO-CONVENOR

Dr. Deepak Mehra, Dept. of Mechanical Engineering, NITTTR Kolkata – 700106
Email: deepak@nitttrkol.ac.in
Mob: 8058111512

