

# International Conference

On

## Global Climate Action: Strategies for a Sustainable Future

**GCASSF 2025**

Event: 25-26 July 2025

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) has been a pioneer in advancing technical education and research. With a strong emphasis on sustainability and climate resilience, NITTTR 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 Educational 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: **20 June, 2025**
- Notification of Acceptance of Paper: **30 June, 2025**

### LINK FOR REGISTRATION

Participants can register at:

<https://docs.google.com/forms/d/1GyHOg92OJA8PIFPT5zrPlynsIxS2kK5gLwB91JPSxgM/edit>

- **Early Bird Registration Closes on: 05 July, 2025**
- **Conference Date: 25-26 July, 2025**

### CHIEF PATRON

Shri Sajjan Bhajanka, BOG Chairman, NITTTR Kolkata.

### PATRON

Prof Debi Prasad Mishra, Director, NITTTR, Kolkata.

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2. Dr. Deepak Mehra, Dept. of Mechanical Engineering, NITTTR Kolkata
3. Dr Kunwar Raghvendra Singh, Dept. of Civil Engineering, NITTTR Kolkata
4. Dr Arpan Kumar Mondal, Dept. of Mechanical Engineering, NITTTR Kolkata

### CONVENOR

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### CO-CONVENOR

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