

## 1<sup>st</sup> National Conference on Climate Resilience and Environmentally Sustainable Technologies (NITK-CREST 2025)

**27<sup>th</sup> Feb - 1<sup>st</sup> Mar 2025**

In association with



Karnataka State Pollution Control Board



### About NITK-CREST 2025

The 1<sup>st</sup> National Conference on Climate Resilience and Environmentally Sustainable Technologies (NITK - CREST 2025) is a pioneering event that brings together experts, researchers, and professionals from diverse engineering disciplines. NITK-CREST 2025 aims to foster interdisciplinary collaboration to address the pressing challenges of climate change and environmental sustainability. Through innovative technological approaches, the conference will explore cutting-edge solutions for building resilient communities and sustainable ecosystems. Participants will have the opportunity to engage in thought-provoking discussions, share groundbreaking research, and contribute to shaping a sustainable future for generations to come.

### About NITK

National Institute of Technology Karnataka (NITK), Surathkal has established itself as a premier Institution engaged in imparting quality technological education and providing support to research and development activities. NITK is conferred the status of an Institution of National Importance vide NIT Act No.29 of 2007 by Govt. of India and is consistently ranked as one of the top 20 technical institutions in India. NITK offers Undergraduate, Postgraduate, and Doctoral Degree programs. NITK is committed to enhancing the capabilities and potential of our human resources with the objective of transforming them into leaders in their chosen areas of interest. Our vision is to strive for excellence, be globally competitive in technical education, and focus on knowledge assimilation, generation, and dissemination.

### Themes of NITK - CREST 2025

#### Track: Earth (Materials)

- Circular economy and waste management
- Sustainable materials
- Soil pollution control
- Soil Regeneration
- Nanomaterials
- Biomaterials

- Sustainable mining
- Microplastics
- Green lubricants
- IoT for smart agricultural
- Processing of plastic waste and sludge
- Soil and Foundation Engineering for Sustainable Infrastructures
- Soil Dynamics and Earthquake Engineering
- Landslides and Slope Failures

#### Track: Water

- Wastewater treatment
- Sustainable water infrastructure
- Desalination
- AI and ML for Water Research
- Water quality, management & reuse
- Water conservation
- Ocean and Coastal Engineering
- Flood and Excess Rainfall-Induced Disaster

#### Track: Fire (Energy)

- Hydrogen production and storage
- Renewable energy
- Thermochemical conversion
- Batteries, fuel cells, Supercapacitors
- AI and ML applications in Energy

#### Track: Air

- Carbon Capture, Utilisation and Storage
- Air pollution control
- Particulate matter
- Air monitoring and emission research
- Air quality modeling

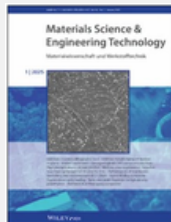
#### Track: Space (Climate)

- Climate change mitigation and adaption
- Global warming
- Environmental impact assessment
- Disaster Mitigation, Prevention and Management
- Low carbon economy



## Publications/Proceedings

All the abstracts accepted after peer review from registered participants will be published in the conference proceedings. Selected papers presented at NITK - CREST 2025 will be published in Special Issues. Efforts are also on to publish the selected papers as Book Chapters in Springer.



## Important Dates

Abstract Submission begins	15/11/2024
Last date for Abstract Submission	<del>20/01/2025</del> <b>30/01/2025</b>
Notification of Acceptance	10/02/2025
Early Bird Registration closes	12/02/2025
Registration Deadline	20/02/2025

## Registration

Category	Early Bird Registration* (INR)	Regular Registration* (INR)
Industry Delegates	7080	8260
Academia/ R & D Centres	4720	5900
Research Scholar/PG/UG	2950	3540
Non-participant/ Accompany	1770	2360

\*Including 18% GST charges

The conference registration fee includes kit, proceedings, and admission to all technical sessions, lunch, tea/coffee, and snacks. It does not include accommodation. Limited accommodation is available for participants in the NITK Guest House. On prior request, they may be provided accommodation based on the availability on a payment basis. A list of nearby Hotels and their tariff will be updated on the conference website for the benefit of outstation participants.

### Account Details

Account: The Director, NITK Surathkal

Account No.: 37772503911

Bank Name: SBI, NITK

IFSC Code: SBIN0002273

MICR Code: 575002013

SWIFT Code: SBININBB146



## Keynote Speakers

**Prof. Tanmay Basak**, IIT Madras

**Prof. Pradeep R Nair**, IIT Bombay

**Prof. R. Vinu**, IIT Madras

**Prof. P C Abhilash**, IIT BHU Varanasi

**Dr. Nikhil Dhawan**, IIT Roorkee

**Dr. Manoj P Samuel**, CWRDM, Kozhikode

**Dr. Chenna Rao Borrea**, IIT Kharagpur

**Dr. T.C.S.M. Gupta**, Apar Industries Limited Mumbai.

**Dr. Venkata Vanukuru**, GLOBALFOUNDRIES

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**Shri. Dilip Kumar Dalei**, DRDO

**Shri. Padmanand Warriar**, Founder, Warriar H.E.A.R.T

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Head of the Department, Chemical Engineering

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