

International Conference on Thermal Sciences and Sustainable Energy (ICTSE-2026)

January 23–24, 2026

Organized by

**Department of Mechanical Engineering,
National Institute of Technology Warangal**



ictse26@nitw.ac.in



About NIT Warangal and Mechanical Engineering Dept.

National Institute of Technology Warangal, established in 1959, is the first in the chain of 31 NITs in the country. The institute is recognized as an Institute of National Importance and is ranked among the top technical education institutions in India. There are 14 Departments offering 10 undergraduate programmes (B.Tech) in engineering, 29 post graduate programmes and research programmes in engineering, sciences, humanities, physical education and management. NIT Warangal is a residential campus with about 7000 students from across the country and about 500 international students.

Department of Mechanical Engineering (MED) was established as one of the major departments of the Institute, since its inception in 1959. The department has been actively engaged in teaching and research in diverse fields of Mechanical Engineering. MED has 51 faculties holding Ph.D from reputed Indian and foreign Universities. The department offers 1 Under Graduate (B.Tech.) and 5 Post Graduate (M.Tech) courses. The MED has 400+ SCI/Scopus Indexed journals in last 3 years.

About the Conference

The International Conference on Thermal Sciences and Sustainable Energy (ICTSE 2026) aims to provide a leading forum for researchers and engineers from academia and industry to exchange the latest advancements and cutting-edge research in the diverse fields of heat transfer and fluid dynamics. The conference strives to showcase and disseminate the most recent theoretical, computational, and experimental findings in heat transfer and fluid flow, covering fundamental principles and novel applications. This includes, but is not limited to, advancements in conduction, convection, and radiation heat transfer, single-phase and multi-phase flows, computational fluid dynamics (CFD) and numerical methods, microfluidics, turbulence and complex flow phenomena, and energy and environmental applications. ICTSE 2026 aims to connect individuals from diverse backgrounds and expertise to foster new research partnerships, knowledge sharing, and technology transfer to address emerging challenges related to sustainable energy systems and energy efficiency, climate change mitigation and adaptation and biomedical applications and healthcare.

Call for Paper

Faculties, scientists, researchers and technical experts are invited to submit their original work in the fields of heat transfer, fluid systems and energy systems. All the papers must be presented in person. An option for online presentation is available only for foreign delegates.

Publication Details

All the papers accepted after peer review from registered participants has following publication options.

- Selected papers will be published in **Energy (Elsevier)** and other SCI/Scopus journals (names will be updated after proper permission) as special issues after further addition and peer review process.
- Selected papers can be submitted to “Journal of Thermal Engineering” and “Sigma Journal of Engineering and Natural Sciences” as regular issue.
- Rest of the papers will most probably be published as Lecture Notes by renowned publisher



Conference Tracks

Papers are called for, but not limited to the following topics:

Thermal

- IC engines and Gas turbine
- Combustion
- Advances in Heat Exchangers
- Electronics Cooling
- Micro and nanoscale heat transfer
- Thermal Management of EV components
- Heat Transfer in Multiphase Flows
- Heat Transfer Enhancement Techniques
- Heat transfer devices
- Gas turbine cooling
- Innovations in Refrigeration and Air conditioning

Fluid

- Turbulent Flows
- Hydro machinery
- Multiphase Flows
- Microfluidics
- Biofluidics
- Fluid structure interaction
- Aerodynamics
- Compressible fluid flow
- Flow visualization
- Flow through porous media

Energy and Sustainability

- Solar Energy Equipment and Processes
- Fuel Cells
- Nuclear Energy
- Energy Storage Systems
- Wind turbines
- Hydrogen Production and Storage
- Hydrogen Transport and Utilisation
- Biofuels and Biomass
- Waste to energy

Interdisciplinary Studies

- AI/ML for thermo-hydraulic systems
- Measurement techniques for thermal and fluid systems
- Sensor development
- Heat and fluid flow in advanced manufacturing techniques

Important dates

| | |
|---------------------------------------|------------|
| Abstract Submission Deadline | 1/08/2025 |
| Notification of abstract acceptance | 15/08/2025 |
| Full length paper submission deadline | 30/09/2025 |
| Notification of final acceptance | 15/11/2025 |
| Registration (Early bird) deadline | 30/11/2025 |
| Registration (Regular) deadline | 31/12/2025 |

Registration Details

| Category | Early bird | | Regular | |
|-----------------------------------|------------------------|-------------------------|------------------------|-------------------------|
| | Indian Delegates (INR) | Foreign Delegates (USD) | Indian Delegates (INR) | Foreign Delegates (USD) |
| Students | 2500 | 50 | 3500 | 75 |
| Academia, R&D, Industry delegates | 4000 | 100 | 5000 | 125 |

Registration fees exclusive of 18 % GST

Organizing Committee

Patron

Prof. Bidyadhar Subudhi
Director, NIT Warangal

Chairman

Prof. Y Ravi Kumar
HoD, MED, NIT Warangal

Organizing Secretaries

Dr. Satyanand Abraham
Dr. Anant Kumar Rai
Prof. D Jaya Krishna
MED, NIT Warangal

Conveners

Prof. Ravi Kumar Puli
Prof. G. Amba Prasad Rao
MED, NIT Warangal

Publication Incharge

Prof. V P Chandra Mohan
Prof. Karthik B
MED, NIT Warangal

Core Committee

Prof. S Srinivasa Rao, NIT Warangal
Prof. A Veeresh Babu, NIT Warangal
Prof. G N Srinivasulu, NIT Warangal
Prof. V R K Raju, NIT Warangal
Prof. K Kiran Kumar, NIT Warangal

Dr. P Ravi Kumar, NIT Warangal
Dr. C Hari Krishna, NIT Warangal
Dr. C Sampath Kumar, NIT Warangal
Dr. Prasanth Anand K L, NIT Warangal

Technical Committee

Dr. A Venugopal, IIT Bhuvneshwar
Dr. Alankrita Singh, IIT Roorkee
Dr. Aneesh A. M, BITS Pilani
Dr. Anuj Bisht, IIT Roorkee
Dr. Chandra Shekhar Pant, IIT Roorkee
Dr. Harekrishna Yadav, IIT Indore
Dr. Jacob Koshy M, NIT Calicut
Dr. K B Hardikkumar, IIT Jodhpur
Dr. Manish Jain, NPCIL
Dr. Manjesh Kumar Singh, IIT Kanpur
Dr. Nagesh Patil IIT Bhilai
Dr. Naresh Yarramsetty, SVNIT Surat
Dr. Nikhil Kumar Singh, IIT Roorkee

Dr. Nitish Arya, IIT Roorkee
Dr. Pramod Kuntikana, IIT Palakkad
Dr. Pranjali Sharma, IIT Roorkee
Dr. Ravita Lamba, IIT Roorkee
Dr. Rhythm Singh, IIT Roorkee
Dr. Roopak Kumar Raman, AERB
Dr. Saurabh Sharma, IIT Roorkee
Dr. Sudheer Siddapureddy, IIT Dharwad
Dr. Sumit Tripathi, IITRAM, Gujarat
Dr. Tapan K. Mankodi, IIT Guwahati
Dr. Vadiraj Anant Hemadri, BITS Goa
Dr. Vijay S. Duryodhan, IIT Bhilai
Dr. Virkeshwar Kumar, IIT Kanpur

International and National Advisory Committee

Dr. Alexandre Presas Batllo, UPC, Spain
Prof. Amit Kumar, NUIST, China
Dr. Hari Prasad Neopane, KU, Nepal
Dr. Ismail Albayrak, ETH Zürich
Prof. P S Lee, NUS, Singapore
Dr. Srikanth Rangarajan, BinghamtonU, US
Prof. Thomas Staubli, HSLU, Switzerland
Dr. Xiao Yexiang, Tsinghua University

Dr. Atanu Das, NML, Jamshedpur
Prof. Arvind Pattamatta, IIT Madras
Dr. B Suresh, GTRE (DRDO)
Dr. M P Mishra, IRDE (DRDO)
Prof. S K Das, IIT Madras
Prof. S R Shine, IIST Trivandrum
Prof. S V Prabhu, IIT Bombay
Prof. Sandeep K Saha IIT Bombay