

2nd International Conference on Fluid, Thermal and Energy Systems (ICFTES'24)



ICFTES

www.icftes.in

June 6 - 8, 2024



Call For Papers

ICFTES'24 invites faculties, researchers, industrial participants to submit their original research work in the fields of Fluid, Thermal and Energy systems. The recommended papers only will be allowed to submit full-length articles for special issues in conference proceedings/journals.

Submission Guidelines

The paper should be restricted to 6 pages with an abstract of maximum 250 words. Authors are requested to restrict the similarity index to 20%. The received manuscripts will be reviewed by a technical committee

Link for Paper Submission: <https://cmt3.research.microsoft.com/ICFTES2024>

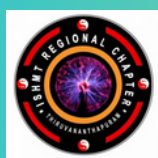
Organized by

Department of Chemical Engineering
Department of Mechanical Engineering
National Institute of Technology Calicut, India

In Collaboration with

Department of Mechanical & Mechatronics Engineering
Stellenbosch University, South Africa

In Association with



Important dates

Full length paper submission	October 1st, 2023 to March 31st, 2024
Notifying the decision to authors	April 1st-15th, 2024
Registration	May 1st, 2024
Last Date to Submit Revised Manuscript	May 1st, 2024
Pre-recorded videos	May 20th, 2024

About ICFTES

The first edition of ICFTES (June, 2022) was a massive success with 177 participants from India and abroad. The objective of ICFTES is to share the advancements in the fields of Thermal Science, Fluid Flow, and Energy Sciences. It is an effort to bring the global research community both from academia and industry to a single platform to share and learn the knowledge of resolving current challenges of these broad domains.

About NIT Calicut

National Institute of Technology Calicut is a public funded institute, established in 1961. Set in a picturesque at the foothills of the Western Ghats, it is located about 22 kilometres north-east of Calicut city. It is a prestigious institute with a reputation for excellence at undergraduate, postgraduate and research levels, fostering the spirit of national integration among the students and close interaction with industry.

Themes of ICFTES'24

Thermal Science

Fundamental

- Modes of heat transfer
- Phase change heat transfer
- Mass Transfer
- Micro and nanoscale heat transfer
- Porous media
- Solidification
- Thermodynamic Process
- Wetting and Capillarity

Numerical/Computational

- Machine Learning / AI Techniques
- Single Phase/Two-Phase/Multiphase Flows
- Inverse Problems
- Turbulent heat transfer
- Biological heat transfer

Application of Thermal Science

- Battery Thermal Management
- Cooling Techniques
- Nanotechnology
- Refrigeration and Cryogenics
- Advanced Energy Systems
- Advanced Environmental Systems
- Aerospace and Automotive Technology
- Material Processing
- Fire Technology and safety
- Heat exchangers
- Micro-electrochemical Systems

Fluid Flow

Fundamental

- Flow measurements using PIV, PDA/PDPA, LDV, HWA, Holography etc.
- Microfluidics
- Vortex dynamics
- Boundary-layer flows
- Separated flows
- Pulsating flows
- Supersonic, hypersonic flows

Computational

- Studies using FDM, FVM, FEM, LBM, IBM techniques
- Studies using Mesh-free approaches (DEM, SPH etc.)

- Turbulence and Multiphase modelling
- Fluid-structure interaction
- Instability, Transition and Turbulence
- Fluid-structure Interaction
- AI/ML

Application

- Biological flows
- MHD and EHD flows
- Granular flows
- Mineral processing
- Nuclear reactor thermal hydraulics
- Fluidized bed technology
- Aerodynamics
- Turbomachinery
- Propulsion and Power
- Sensors development

Energy Science

Fundamental

- Hydrogen Production and Storage
- CO₂ Capture and Sequestration
- Fuel Cells
- Energy Materials
- Phase Change Materials
- Energy Storage and Transformation
- Energy Efficiency
- Heat Recovery
- Polygeneration

Modelling

- CFD modelling of Energy Systems
- FEM analysis of Hydrogen Tanks
- Mathematical Modelling
- Energy Audit/Modelling

Application

- Hydrogen Transport and Utilisation
- Energy Harvesting
- Sorption Systems
- Solar Energy Technologies
- Renewable Energy Conversion Systems
- Green Buildings
- Modern Innovations in HVAC Systems
- Heat Pipes
- Bio-Fuels

Registration Fee Indian Participants

Registration Fee (₹)	Faculty	Industry/R&D Organization	Research Scholars	Attendee
Early Bird	8850	11800	5900	3540
Late	10620	14160	7080	3540

SAARC Countries Participants (Except India)

Registration Fee* (\$)	Faculty	Industry/R&D Organization	Research Scholars	Attendee
Early Bird	236	354	177	118
Late	354	472	236	118

Other Participants (Except SAARC Countries)

Registration Fee* (\$)	Faculty	Industry/R&D Organization	Research Scholars	Attendee
Early Bird	354	472	236	118
Late	472	590	295	118

* Registration fee includes 18% GST

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Category	Charges (₹)	Benefits (+)
Platinum	150000 + 18% GST	Registration waiver for 4 attendees. Company logo and organization's name in abstract proceedings and website. Exhibition space, Promotional videos during breaks. Stand for poster/product details etc. in the main auditorium, the technical sessions area, and poster presentation area. Name and Logo on the participant certificates.
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Gold	75000 + 18% GST	Registration waiver for 2 attendees. Company logo and organization's name in proceedings and website. Exhibition space. Stand for poster/product details etc. in the technical sessions area, and poster presentation area. Name and Logo on the participant certificates
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