Registration Form

Short Term Course (STC)

on

Emerging Technologies in Thermo-Fluids and Energy Systems (ETTES-2023)

(April 11th – 16th, 2023)

Hybrid Mode

1. Name:.....
2. Gender:.....
3. Designation:.....
4. Organization:.....
5. Correspondence address:.....

.....

Mobile. No.:.....

E-mail:.....

6. Qualifications: .....
7. Teaching/Research Exp.(years):.....
8. Area of Research: .....

.....

9. Registration fee details: .....

The above information provides is true and to the best of my knowledge. If selected, I agree to abide by the rules and regulations of the programme.

(Signature of the Applicant with date)

(Signature of Head of Department/Institute with date)

Note: Registration can be done either through the link or send the hard copy of the above registration form.

Google form link: https://forms.gle/2ACXh9xScxLYGvYSA

Registration

How to Register

Duly filled applications form need to be submitted on or **before April 2nd, 2023**. The selection is on a first come first served basis depending upon the availability of seats. As seats are limited, so pre-registration is required by applying online through Google link form below.

Google form link: https://forms.gle/2ACXh9xScxLYGvYSA

Registration Fee:

Research Scholars & Students	: INR 300/-
Faculty/Industry Person	:INR 600/-
Beneficiary	**:** NIT Delhi STC Conf.
Bank Name	: CANARA BANK
Account No	**:** 2983101006538
IFSC Code	**:** CNRB0002983

Important Dates

Last date of Registration	: **April 2nd, 2023**
Notification of Selection	: **April 7th, 2023**

ORGANIZING COMMITTEE

Patron	
Prof. (Dr.) Ajay K. Sharma	**Hon. Director, NIT Delhi**
Convenor	
Dr. Harish Kumar (Dean Academics)	ME Department
Coordinator(s)	
Dr. Ashok Kumar Dewangan	ME Department
Dr. Leeladhar Nagdeve (HoD, ME)	ME Department
Organizing Committee Members	
Dr. Abhishek Mishra	ME Department
Dr. Hargovind Soni	ME Department

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CONVENOR

Dr. Harish Kumar

COORDINATOR(S)

Dr. Ashok K. Dewangan

Dr. Leeladhar Nagdeve

ORGANISED BY

Department of Mechanical Engineering

National Institute of Technology Delhi

(An Institute of National Importance)

www.nitdelhi.ac.in

About the institute

National Institute of Technology, Delhi (NITD) was established in 2010 by Ministry of Human Resource Development, Government of India during the 11th Five Year Plan. It has been declared as an Institute of National Importance by an act of Parliament of India. It aims to provide instructions and research avenues in the areas of Engineering, Technology, Management, Education, Sciences and Humanities and for advancement of learning and dissemination of knowledge in such areas.

The institute offers three undergraduate programs, five PG programs and Ph. D. programming all disciplines not only to keep pace with the expanding frontiers of knowledge but also to provide research training relevant to the present social and economic objectives of the country and the world.

The institute is located in Plot No. FA7, Zone P1, GT Karnal Road, Delhi-110036, INDIA. Campus is situated at around 12 km from Jahangirpuri Metro Station and is well connected with public conveyance.

About the Department

The Department of Mechanical Engineering is a diverse field, which involves design, analysis and manufacturing from small machine parts and devices to large systems. We aspire to have a distinguished tradition of excellence in the theme areas ranging from thermal, mechanics, design and manufacturing to CAD/CAM/CAE. The department currently runs one undergraduate program B. Tech. (Mechanical Engineering) and one master's program M. Tech. (CAD/CAM). Ph. D. program is also offered by the Department in all areas of the Mechanical Engineering since Academic year 2016-2017. The Department is currently equipped with CAD Laboratory, Academy for Advanced & Reverse Manufacturing (ARM) Lab, Central Workshop, Engineering Visualization, Advanced Manufacturing Lab, and Advanced Composites Lab.

Intake for M. Tech. CAD/CAM program is 34 seats + 2 seats (through DASA) including GATE scholarship, self-financed & sponsored seats. The program has been started from academic session 2016-17. The Department's dream is to translate its research and to develop teaching methods so that the underprivileged minds can find technological solutions to future challenges. Faculty members of the department have excellent academic & research credentials and published numerous peer reviewed journal articles/ papers, Books, Book Chapters etc. in diversified field and having adequate experience in advanced research.

Objectives of the Course

Emerging Technologies for Thermo-Fluids and Energy Systems addresses a wide array of cutting-edge topics that rely on thermodynamics, heat transport, fluid mechanics, energy conversions, and chemical and phase change phenomena in engineering systems.

Thermal energy is one of the major energy challenges. Recently it consumes large amounts of energy and cause a great deal of pollution. With sustainable development goals in mind, the energy sectors are undergoing revolutionary transition towards emerging technologies such as solar energy, Biofuels, Geothermal energy, and other cooling/heating technologies. This short term course (STC) provides in depth knowledge about of recent technologies are being used in Refrigeration and Air conditioning, Cryo-energy, Nuclear energy, Energy Storage, BTMS for Electric Vehicles, and other applications to meet the ever increasing current & future needs for green development.

Fluid flow is also play an important role in the most industrial applications; especially those involving temperature, pressure, and velocity. Simultaneous flow of liquid water and steam occurs at certain important locations in fluid flow systems. The amount of energy required to maintain the desired flows for particular applications.

This STC highlights the opportunities, challenges, innovation and implementation of strategies for various Thermo-fluids fields through the reduction of energy consumption using sustainable technologies.

Advanced research topics related to Sustainable Energy Technologies for Thermo-Fluids and Energy Systems will be addressed during STC. The included topics are as:

- Sustainable Energy Technologies
- Cooling/Heating Technologies
- Refrigeration & Air-Conditioning
- Solar Energy
- Biofuels
- Cryo-energy
- Thermal Energy Storage
- Oil and Natural Gas Technology
- Renewable Energy
- Nano-fluids technologies
- Alternative Energy Resources
- Heat Transfer Augmentation
- Thermal Spray Technology
- Modern Tools for Thermo-fluid Systems
- Multiphase Flow
- Fluid Flow
- CFD
- Turbulence and Flow control
- Micro-fluidic Systems

This course will offer a unique opportunity to the faculty members, researchers, engineers and research student working in the above mentioned areas and allied fields. Talks will be delivered by eminent academicians, scientists, and industry persons as well as field professionals.

Eligibility for Participants

The Short Term Course is open to faculty members, research scholars, students and industry person belonging to engineering/ science disciplines.