



## ABOUT INSTITUTE

National Institute of Technology Hamirpur is one of the 31 NITs of the country, established in 1986 as Regional Engineering College, as a joint and cooperative enterprise of the Govt. of India and Govt. of Himachal Pradesh. The goals of the Institute as embodied in the logo are truly remarkable in their scope of vision. The college provides Undergraduate, Postgraduate and Doctorate Education in Engineering, Sciences & Humanities; fostering the spirit of national integration among the students, a close interaction with industry and a strong emphasis on research, both basic and applied.

### Patron

Prof. Lalit Kumar Awasthi  
Director

### Chairman

Dr. Somesh Sharma  
(Head)  
Dept. of Mechanical Engineering

### Convener

Dr. Varun Goel, DoME

### Course Coordinator Cum Treasurer

Dr. Ajoy Debbarma, DoME

### Organizing Committee

All faculty members and staff  
of  
Mechanical Engineering Department

## ABOUT MECHANICAL DEPT.

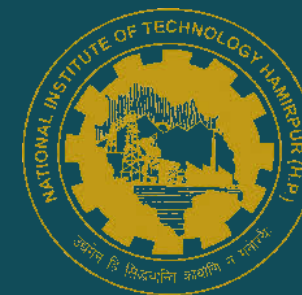
The Department of Mechanical Engineering has evolved into one of the finest in terms of teaching curriculum and methodology supported by a well-organised and adequately funded research program. The Department has a very well-established B. Tech program complemented by four M. Tech. programs in Energy Technology, Design, Thermal and Manufacturing. Apart from this about 51 Research Scholar have got their Ph.D in various areas of specialization and 30 Research scholars are ongoing in various areas of specialization. The department is, perhaps, the most versatile in terms of the range of specializations of its faculty members and a well experienced support staff.

e-Workshop  
on

# Modelling and Simulation in Thermal Engineering

(MSTE - 2020)

30th Oct. - 03rd Nov.,  
2020



Organized by

Mechanical Engineering Dept.  
National Institute of Technology,  
Hamirpur

H.P.–177005, India.

Phone: 91-1972- 254702

Web: [www.nith.ac.in](http://www.nith.ac.in)

## ABOUT THE COURSE

The course is designed to provide essential information about recent development, new approach technique and methodologies of modeling and simulation in thermal engineering. The e-Workshop will also have a virtual lab session.

## OBJECTIVES

To present recent numerical techniques and methodologies, and explore various alternative computational methods for modeling and simulation. To determine the extent of thermal research domain for the use of various simulation techniques. To promote and facilitate contacts between thermal scholars and expert faculty of thermal section.

## TOPICS

Simulation and Discretization Techniques, Modeling of Heat Equations, Heat Transfer Enhancement-Augmentation, Combustion Modeling, Molecular Simulation of Drop Dynamics, Modeling of Turbulent Dissipation, Optimization techniques, Virtual Lab Session with FLOWNEX, ANSYS Workbench-Design Modeling, Ansys Meshing, Pre-setup for Solver, Thermal Modeling and Post Processing.

## RESOURCE PERSONS

Faculties / Experts from IITs, NITs and other premier Institutions/Organizations will deliver the lectures.

## TARGETED PARTICIPANTS

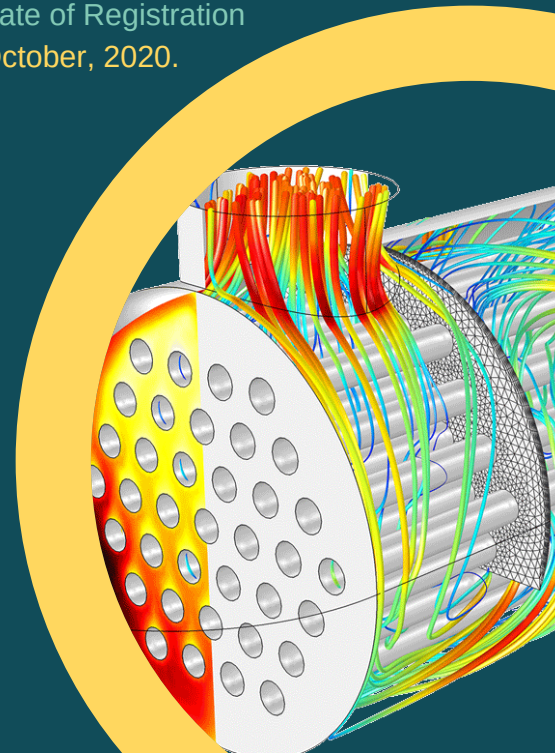
Faculties from Engineering Institutes, Universities, research scholars, PG Students and Other Educational Institutes and employees of Industries

## Registration Fee Details (in INR)

Participants from Industry .....	Rs. 1000
Participants from academia/ R&D Labs .....	Rs. 500
Students .....	Rs. 200

Seats are limited and the selection will be done on first-cum-first-serve basis

Last Date of Registration  
28th October, 2020.



## REGISTRATION PROCESS

STEP-I: The Participants must make the prescribed registration fees through SBI collect online on or before **28th October, 2020**.

Procedure for SBI collect:

- Visit SBI Collect
- Select State of Corporate / Institution: Himachal Pradesh and Type of Corporate / Institution \* as Educational Institutions.
- Select Educational Institutions Name: NIT Hamirpur
- Select Payment Category \*: WORKSHOP STC FDP CONFERENCE (Last option)
- Fill up all the details.
- Submit the form and generate the receipt.

STEP-II: The participants required to complete register process by filling the Google-Form; <https://forms.gle/wFNUSEri326fKuSH7>

## COURSE HIGHLIGHTS

Online Platform: Meeting Links will be shared through registered Email IDs.

After a successful completion of the workshop, E-Certificate will be awarded to the Registered participants

## CORRESPONDENCE ADDRESS

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