



### About the FDP

The Faculty Development Program (FDP) on "Recent Advances and Innovations in Mechanical Engineering" is designed to enhance the knowledge base and teaching effectiveness of faculty members working in the domain of mechanical engineering. This program aims to bridge the gap between academic instruction and rapidly evolving industry demands by providing exposure to modern developments in the field.

### Key themes of the FDP include:

- Advanced manufacturing techniques
- Smart materials and MEMS
- Robotics and automation
- Thermal, fluid, and renewable energy systems
- Applications of AI and IoT in mechanical engineering

### About the Institute

Haldia Institute of Technology (an autonomous Institute of ICARE, Haldia, approved by AICTE and affiliated to MAKAUT, West Bengal) began its journey in the year 1996. It is the first self-financed and accredited Academic Institute imparting technical education. The Institute is situated at Haldia- an industrial hub in Eastern India. Since inception, Haldia Institute of Technology is dedicated to the objectives of creating highly trained professional manpower in various disciplines of Engineering, Technology as well as Applied Science and Social Science. The Institute is also dedicated to advanced scientific research. Haldia Institute of Technology is about 125 km from Kolkata and is well

### About the Department

Department of Mechanical engineering offering UG and PG program in mechanical engineering, since 2002 and 2015 respectively. The department is accredited by NBA-Tier-I. Department offer state-of-the-art laboratory facilities to the students. Now department has AICTE approval for the intake of 120 students for the UG and 18 for PG program. The students after completion of their degree, they placed at various reputed companies and some student opt for higher studies.



One-week Faculty Development Program  
on

## RECENT ADVANCES AND INNOVATIONS IN MECHANICAL ENGINEERING

**August 4-9, 2025**

Online mode

Organised by

Department of Mechanical Engineering

(NBA Accredited)

In association with

IQAC,

Haldia Institute of Technology

An Autonomous NAAC Accredited

Technical Institute with "A" Grade

Address: Hatiberia, ICARE Complex, Haldia, Purba  
Medinipur, West Bengal

**Important date and time**

**August 4-9, 2025**

Online mode

Time: 4.30-5.30 pm

### Registration Link

<https://forms.gle/UjoDNivF3XpqGiyb6>

Register before 03/08/2025



## Chief Patron



Dr. Lakshman Chandra Seth (D. Litt.)  
Chairman, HIT, ICARE, Haldia, West Bengal, India

## Patrons

Mr. Sayantan Seth, Vice-Chairman, HIT  
Mr. Ashis Lahiri, Secretary, HIT

## Advisory Committee

Prof. (Dr.) Tarun Kanti Jana, Principal, HIT  
Dr. Anjan Mishra, Registrar General, HIT  
Dr. Debasis Das, Manager Administration, HIT  
Mr. Sudipta Kumar Basu, Finance Manager, HIT  
Prof. (Dr.) Dilip Dey, Coordinator IQAC, HIT & Dean, School of Engineering  
Prof. (Dr.) Goutam Kumar Bose, HOD, ME, HIT

## Organizing Committee

### Convenor

Dr. Abhishek Samanta, Assoc. Prof., ME, HIT

### Coordinators

Mr. Sourav Pattanayak, Asst Prof., ME, HIT  
Mr. Pritam Pain, Asst. Prof., ME, HIT  
Dr. Abhijit Saha, Assoc. Prof. ME, HIT

### Other Members

Prof. (Dr.) Bikash Bepari, Prof., ME, HIT  
Prof. (Dr.) Balaram Dey, Assoc. Prof., ME, HIT  
Dr. Nilabha Sankar Mitra, Assoc. Prof., ME, HIT  
Dr. Debasis Das Adhikary, Assoc. Prof., ME, HIT  
Dr. Supriyo Roy, Assoc. Prof., ME, HIT  
Dr. Bipradas Bairagi, Asst. Prof., ME, HIT  
Dr. Ashoke Kumar Bera, Asst. Prof., ME, HIT  
Mr. Nirmalya Bayal, Asst. Prof., ME, HIT  
Mr. Satyajit Chatterjee, Asst. Prof., ME, HIT  
Mr. Sourav Sarkar, Asst. Prof., ME, HIT  
Mr. Souvik Gantait, Asst. Prof., ME, HIT  
Mr. Manas Kumar Bhukta, Asst. Prof., ME, HIT  
Dr. Premangshu Mukhopadhyay, Asst. Prof., ME, HIT  
Mr. Soumik Dutta, Asst. Prof., ME, HIT  
Mr. Santanu Maity, Asst. Prof., ME, HIT  
Dr. Sandip Mondal, Asst. Prof., ME, HIT

# MEET OUR SPEAKERS!

Day  
1

(4/8/25)



Dr. Venkata Naga Vamsi Munagala  
ASSISTANT PROFESSOR  
GRADE-I, MECHANICAL  
ENGINEERING, IIT KGP

Surface Engineering, Thermal  
spray, Electroplating

Day  
2

(5/8/25)



Prof. (Dr.) Subhasis Bhaumik  
PROFESSOR  
AEROSPACE ENGINEERING AND  
APPLIED MECHANICS, IIST  
SHIBPUR

Mechatronics & Robotics, Orthotic  
and Prosthetic Assistive Devices

Day  
3

(6/8/25)



Prof. (Dr.) Ranjan Ganguly

PROFESSOR,  
DEPARTMENT OF POWER  
ENGINEERING,  
JADAVPUR UNIVERSITY

Microfluidics, Energy systems,  
Combustion, Heat Transfer

Day  
4

(7/8/25)



Prof. (Dr.) Dipankar Bose

EX. PROFESSOR AND HEAD,  
MECHANICAL ENGINEERING  
NITTTR, KOLKATA

Non-traditional Engineering  
Reliability Engineering  
Welding Technology

Day  
5

(8/8/25)



Dr. Sumit Bhowmik  
ASSOCIATE PROFESSOR,  
DEPARTMENT OF  
MECHANICAL ENGINEERING  
NIT, SILCHAR

Composite materials: Development  
and Synthesis; Fatigue and Fracture

Day  
6

(9/8/25)

## Online MCQ Test

## Criteria for receiving certificate

- Attendance should be more than 80%
- 60% marks should be obtained in online test

## CONTACT

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