

3rd INTERNATIONAL CONFERENCE

ON

“Advances in

**Manufacturing, Thermal and Design
Engineering (MATHED 2025)”**

**26th December -28th December 2025
(Hybrid Mode)**



Organized by

Department of Mechanical Engineering

National Institute of Technology Hamirpur

Hamirpur, Himachal Pradesh, India

www.nith.ac.in

ADDRESS FOR CORRESPONDENCE

Organizing Secretary MATHED 2025

Department of Mechanical Engineering

National Institute of Technology Hamirpur Hamirpur-177005,
Himachal Pradesh, India.

Email: mathed2025@nith.ac.in

CONTACT PERSONS:

Dr. Dilshad Ahmad Khan +91-9718409294

Dr. Laxmikant Yadav +91-7000201281

Dr. Param Singh +91-9452869752

Dr. Niharika Gupta +91-9958114561

For Registration & other details, please visit Website:

mathed2025.nith.ac.in

NATIONAL ADVISORY COMMITTEE

Prof. V.K. Jain, IIT Kanpur (Rtd)	
Prof. Sunil Jha, IIT Delhi	Dr. Rajesh Kumar, NIT Kurukshetra
Prof. J. Ram Kumar, IIT Kanpur	Dr. Manoj Sinha, NIT Kurukshetra
Prof. Sudarsan Ghosh, IIT Delhi	Dr. Neeraj Bhanot, Scientist CSIR
Prof. Sarit Kumar Das, IIT Madras	Dr. Sarvesh Misra, IIT Kanpur
Prof. Andallib Tariq, IIT Roorkee	Dr. Parmod Kumar, IIT Mandi
Prof. Rajiv Tiwari, IIT Guwahati	Dr. Qasim Murtaza, DTU
Prof. Raj K. Pandey, IIT Delhi	In-House
Prof. M.F.Wani, NIT Srinagar	Prof. R. K. Sehgal
Prof. S. Aravindan, IIT Delhi	Prof. Sunand Kumar
Prof. Naveen Kumar, IIT Ropar	Prof. Anoop Kumar
Prof. Rajiv Kumar, IIT Mandi	Dr. Rajesh Sharma
Prof. Z. K. Yusufzai, IIT-BHU	Dr. Rajiv Sharma
Prof. D. Prabhakaran RT, IIT Jammu	Dr. Somesh Sharma
Prof. S. Tangellapalli, NIT Jalandhar	Dr. Siddhartha
Prof. Faisal Hasan, ZHCET, AMU	Dr. Varun
Dr. Pawan Sharma, IIT-BHU	Dr. Pardeep Kumar Sood
Prof. Atul Dhar, IIT Mandi	Dr. Debasish Das
Dr. Dinesh Setti, IIT Palakkad	Dr. Mohit Pant
Dr. Z. Alam, IIT (ISM) Dhanbad	Dr. Deepak Sharma
Dr. Ajay M. Sidpara, IIT Kharagpur	Dr. Param Singh
Dr. M. Srivastava, Scientist C, DST	Dr. Ajoy Debbarma
Prof. Nadeem Hasan, ZHCET, AMU	Dr. Akhilesh Choudhary
Prof. Arshad Noor Siddique, JMI Delhi	Dr. Dilshad Ahmad Khan
Dr. Avadhesh Yadav (DDG), NISE	Dr. Laxmikant Yadav
Dr. Vijay Bajpai, NIT Kurukshetra	Dr. Anshul Sharma
Dr. Ravi Pratap Singh, NIT Jalandhar	Dr. Niharika Gupta

INTERNATIONAL ADVISORY COMMITTEE

Prof. Mustafizur Rahman, Singapore
Prof. Kapil Gupta, University of Johannesburg
Prof. Sridhar Idapalapati, NTU Singapore
Dr. faiz Iqbal, Lincoln University, U.K
Dr. Binnur Sagbas, Yildiz Technical University, Turkey
Dr. Ana Pilar Valerga, University of Cádiz, Spain
Dr. Roque Aguado Molina, Universidad de Jaén, Spain

CHIEF PATRON:

Prof. H. M. Suryawanshi

Director, NIT Hamirpur

PATRON:

Dr. Prashant Kumar

CHAIRMAN:

Dr. Rajesh Kumar Sharma

ORGANIZING SECRETARY(s)

Dr. Dilshad Ahmad Khan

Dr. Laxmikant Yadav

Dr. Param Singh

Dr. Niharika Gupta

TREASURER:

Dr. Deepak Sharma

ORGANIZING COMMITTEE:

All Faculties and Staff Members of the Mechanical Engineering
Department, NIT Hamirpur

CALL FOR PAPERS:

We invite students, faculty, researchers, scientists, and industry professionals to submit their research abstracts. Submissions are welcome on, but not limited to, the following themes:

- Advanced Manufacturing Processes
- Sustainable and Green Manufacturing Practices
- Additive Manufacturing and 3D Printing
- Robotics and Automation in Manufacturing
- Industry 4.0 and Smart Manufacturing
- Renewable Energy Technologies
- Refrigeration and HVAC Systems
- Trigenation & Polygeneration Systems
- Advances in Fluid Dynamics and Combustion
- Heat Transfer and Thermal Management
- Product Design and Development
- Mechanical System Design
- Structural and Stress Analysis
- Biomechanical Design and Applications
- Vibration & Control

ABOUT HAMIRPUR:

Hamirpur, nestled in the scenic hills of Himachal Pradesh, is known for its pleasant weather, lush greenery, and rich cultural heritage. The town offers breathtaking views of the Shivalik range and serves as a gateway to several natural attractions. The historic Sujanpur Tira Fort provides stunning views of the Beas River, while Palampur's lush tea gardens sit against the majestic Dhauladhar range. Dharamshala and McLeodganj, known for their Tibetan culture, offer vibrant markets, monasteries, and trekking trails. Hamirpur is also surrounded by many famous temples, adding to its spiritual charm. With its blend of nature, history, and culture, the town promises a memorable experience for conference attendees.

ABOUT NIT HAMIRPUR

National Institute of Technology (NIT) Hamirpur is one of the 31 NITs in India, established in 1986 as Regional Engineering College through a joint initiative of the Government of India and the Government of Himachal Pradesh. It was granted Deemed University status and upgraded to NIT on 26th June 2002. The goals of the institute as embodied in the logo are truly remarkable in their scope of vision. The Institute 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.

ABOUT MATHED 2025

The Department proudly presents MATHED 2025: The 3rd International Conference on Manufacturing, Thermal, and Design Engineering. Building on the success of MATHED 2022 and MATHED 2024, this year's conference will offer both online and offline participation, ensuring a broader global reach and enhanced collaboration. MATHED 2025 serves as a premier platform for knowledge exchange, showcasing cutting-edge innovations in design, thermal, and manufacturing engineering. The conference emphasizes multidisciplinary collaboration, sustainable solutions, and stronger industry-academia partnerships, bridging the gap between research and real-world applications.

ABOUT THE DEPARTMENT:



The Department of Mechanical Engineering at NIT Hamirpur, established in 1986 alongside the then Regional Engineering College Hamirpur, initially served as a supporting department for other disciplines. The Department launched its B. Tech program in Mechanical Engineering in 1994 and has since grown into a center of excellence, offering M. Tech and Ph.D. programs in Design, Thermal, and Manufacturing. With a strong teaching curriculum, innovative methodologies, and a well-funded research program, the department continues to foster academic and research excellence.

Important Dates

Abstract Submission Deadline	15/08/2025
Notification of Acceptance of Abstract	31/08/2025
Full-Text Paper Submission Deadline	10/09/2025
Notification of Acceptance of Paper	20/10/2025
Final Paper Submission Deadline	20/11/2025
Last date of Registration	20/12/2025

Note:

- Selected papers from the conference will be published by Springer as a proceedings book volume. Springer will conduct quality checks on the accepted papers and only papers that pass these checks will be published.
- Springer Nature does not charge any money for publication of Non-Open Access content. Abstracts/extended abstracts and short papers (less than 4 pages) are not considered for publication.
- Plagiarism must be strictly avoided, and the similarity index should be less than 20%. Manuscripts exceeding this limit may be rejected at any stage of the conference-during peer review, publication, or scheduling.

SUBMISSION PROCEDURE:

Authors are required to submit both their abstracts and full-length papers through the **Microsoft cmt tool** using the following link:

REGISTRATION DETAILS:

Following the acceptance of the full-text paper, participants are required to pay the non-refundable registration fee through SBI Collect **The SBI-I collect has following steps:**



- Visit the SBI collect website (or scan above QR code)
- Choose Educational Institution from the options provided.
- In the search bar, type and select NIT Hamirpur as the institution.
- Select WORKSHOP FDP STC CONFERENCE as the payment category.
- Fill in the required information, including your name, contact details, and any other relevant fields.
- Proceed to pay using your preferred method (Net Banking, Debit/Credit Card, UPI, etc.).
- After completing the payment, download or print the e-receipt for your records.

The registration fees include conference e-certificate, e-proceedings.

Description	Indian participants/Foreign participants (USD)
Participants from Academia/R&D	Rs. 5000 (USD 200)
Participants from Industry	Rs. 8000 (USD 250)
Students	Rs. 2000 (USD 100)
Attendee/ listener	Rs. 1500 (USD 75)

Mode of Delivery: Participants opting for online paper presentation will be informed to present via Google Meet. However, physical presence is encouraged for a more impactful and engaging experience."

Keynote Speakers



Prof. Dr. Mustafizur Rahman

Professor (Retired)

National University of Singapore,
Dept. of Mechanical Engineering



Dr. Anand Parey

Professor (HAG)

IIT Indore



Dr. Sudhakar Subudhi

Professor

IIT Roorkee