

## About MATHED-22

The conference is named as MATHED-22. The conference intends to provide a general platform to various academicians, scientists, research scholars, and industry persons throughout the globe working in the broad areas of Mechanical Engineering (Design, Thermal, and Manufacturing Engineering) and allied areas to exchange and share their experiences and research with the world.

## Organizing committee

### Chief Patron

Prof. Hiralal Murlidhar Suryawanshi  
Director, NIT Hamirpur

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Head, DoME, NIT Hamirpur

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## National Institute of Technology Hamirpur

National Institute of Technology Hamirpur is one of the thirty-one NITs of the country, which came into existence on 7th August 1986 as Regional Engineering College, a joint and cooperative enterprise of the Govt. of India and Govt. of Himachal Pradesh.

On 26th June 2002, REC Hamirpur was awarded the status of Deemed University and upgraded to National Institute of Technology. The goals of the Institute as embodied in logo are truly remarkable in their scope and vision. The Institute offers Bachelor, Master and Doctoral programmes in Engineering, Sciences, Architecture, Management and Humanities.

## About Department of Mechanical Engineering

The Department of Mechanical Engineering has evolved into one of the finest in terms of teaching curriculum and methodology supported by a well-organized and adequately funded research program. The Department has a very well-established B. Tech. program complemented by three M. Tech. programs in Design, Thermal, and Manufacturing.

## International Conference on Emerging Aspects of Manufacturing, Thermal and Design Engineering (MATHED-22)

*Organized by*

Department of Mechanical  
Engineering

HYBRID MODE  
(VIRTUAL & OFFLINE)

**MATHED-22**  
**15-17, February 2023**



**NIT HAMIRPUR**



## KEYNOTE Speakers

### Manufacturing

Dr. Mustafizur Rahman  
Professor, Dept. of Mechanical Engg.  
National University Singapore (NTU),  
Singapore

Dr. Puneet Tandon  
Professor, Dept. of Mechanical Engg.  
IIITDM Jabalpur, India

Dr. Janakarajan Ramkumar  
Professor, Dept. of Mechanical Engg.  
IIT Kanpur, India

Dr. Inderdeep Singh  
Professor, Dept. of Mechanical & Industrial  
Engg. IIT Roorkee, India

Dr. Praveen Vettiyattil  
Inventor, TEDx speaker, 'You Can Invent'  
founder, CEO - YCITechnologies  
Kerala, India

Mr. Rakesh Thakur  
Senior Scientist, TBRL, DRDO, Chandigarh

Mr. Navdeep Bhandari  
Senior Scientist, ISRO, Trivendrum

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### Design

Dr. R. K. Pandey  
Professor, Dept. of Mechanical Engg.  
IIT Delhi, India

Dr. Uday S. Dixit  
Professor, Dept. of Mechanical Engg.  
IIT Guwahati, India

Dr. Robert Reid  
HEAD, Industrial and Aeronautical  
Engineering, University of the  
Witwatersrand,  
South Africa

Dr. Subir Kumar Saha  
Professor, IHFC Chair Professor and Project  
Director, IHFC, IIT Delhi, India

Dr. Anand Parey  
Professor, Dept. of Mechanical Engg.  
IIT Indore, India

Mr. Devraj Jatav  
General Manager, Quality Assurances  
Emami Ltd., Kolkata, India

### Thermal

Dr. Pradeep Bansal  
Deputy Editor-in-Chief - Applied Thermal

Dr. Amit Agarwal  
Professor, Dept. of Mechanical Engg.  
IIT Bombay, India

Dr. Anupam Dewan  
Professor, Dept. of Applied Mechanics  
IIT Delhi, India

Dr. Harjit Singh  
Dept. of Mechanical & Aerospace Engg.  
Brunel University, London

Dr. Medhat M. Elkelawy  
Professor, Dept. of Mechanical Engg. Tanta  
University, Egypt

Dr. Kishor Kr. Sadasivuni  
Professor, Center for Advanced Materials,  
Qatar University, Qatar

## National Advisory Committee

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Department of Mechanical Engineering  
IIITDM Jabalpur MP

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Department of Mechanical Engineering  
IIT Indore

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Professor & Head, Department of  
Mechanical Engineering, IIT Madras

Mr. Khilawan Choudhary  
Scientist "E", DRDO, MTRDC,  
Ministry of Defence, Bangalore India

Dr. Anil Kumar  
Department of Mechanical Engineering,  
Delhi Technological University (DTU)  
New Delhi

Dr. Hitesh Panchal  
Department of Mechanical Engineering,  
Govt. Engineering college Patan, Gujrat

Dr. Manu Sharma,  
Centre for Industry Institute Partnership  
Programme (CIIPP), UIET, Panjab  
University, Chandigarh

Dr. Akshay Ranjan Paul  
Department of Applied Mechanics, MNIT  
Allahabad, Uttar Pradesh

Dr. Vijay Kumar Gupta  
Department of Mechanical Engineering,  
IIITDM Jabalpur

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Mechanical Engineering Department  
The University of Alabama

Dr. Mert Gülüm  
Department of Mechanical  
Engineering, Karadeniz Technical  
University, Turkey

Dr. Ümit Ağbulut  
Department of Mechanical  
Engineering, Düzce University, Düzce,  
Turkey

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Professor, DoME, NIT Hamirpur

Dr. Anoop Kumar  
Professor, DoME, NIT Hamirpur

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DoME, NIT Hamirpur

Dr. Siddhartha, Assoc. Professor  
DoME, NIT Hamirpur

Dr. Pardeep Kr. Sood, Assoc. Professor  
DoME, NIT Hamirpur



## Department Committee

### Management and Hospitality Committee

Dr. Debasish Das  
Dr. Deepak Sharma  
Dr. Rajesh Kumar  
Dr. Param Singh

### Technical Committee

Dr. Dilshad A. Khan  
Dr. Laxmi Kant Yadav

### Technicians

Mr. Surinder Gautam  
Mr. Mandeep Sen  
Mr. Dinesh Pathania



## Conference Themes

Topics for MATHED-22 include three different core streams of Mechanical Engineering with Fundamental, Numerical / Computational and Application, but are not limited, to the following:

### Manufacturing

- Artificial Intelligence in Manufacturing
- Automation and Production Control
- Computer-Based Manufacturing Technologies
- Machining Processes
- Mechatronics and Robotics
- Nanomaterials and Nanomanufacturing
- Rapid Manufacturing Technologies and Prototyping
- Real-Time Enterprise Control
- Robust Design and Quality Engineering
- Stochastic Models and Decision Analysis
- Supply Chain Systems

### Thermal

- Computational Fluid Mechanics
- Micro, Nano-scale Transport
- Turbomachinery
- Propulsion and Power
- Heat and Mass Transfer
- Renewable Energy
- IC Engines and Biofuels
- Flow Measurement and Flow Visualization
- Circular Economy and Sustainability
- Nanofluids

### Design

- Applied and Computational Mechanics
- Finite Element Modelling and Simulations
- Extended FEM, Meshfree Methods
- Engineering System Design
- Fracture Mechanics/Solid Mechanics/automotive Mechanics, Fatigue and Failure of Components
- Tribology and Contact Mechanics
- Vibration, Acoustics, Noise and Control, Condition Monitoring

**Selected papers covering conference theme will be published in conference proceeding/book series index in Scopus/Web of Science.**

## Important Dates

Last date of submission: ~~30, Nov. 2022~~  
Submission extended up to: **31, Dec. 2023**  
Notification of Acceptance: **15, Jan. 2023**  
Registration ends: **10, Feb. 2023**

### Submission Link:

<https://easychair.org/conferences/?conf=method2022>

**Paper template:** <https://rb.gy/edro3d>

## Registration Fee Details

National and International Participants  
(GST + Transaction charges are additional)

	National	International
Academia/R&D:	2000 (INR)	200 (US\$)
Industry	: 4000 (INR)	250 (US\$)
Students	: 1000 (INR)	100 (US\$)

## Bank Account Details

Account Name : **Treasurer MATHED**  
Account No. : **40803978864**  
IFS Code : **SBIN0010367**  
Bank Name : **STATE BANK OF INDIA**  
Branch Name : **NIT HAMIRPUR**  
MICR No. : **177002003**



**Registration  
Link**

<https://forms.gle/BEmVaJrbYmKiqmDb9>

## Contact Us



**01972-254702**



**[mathed.med.nith@gmail.com](mailto:mathed.med.nith@gmail.com)**



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



**Department of Mechanical Engineering**