

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.

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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

MATHED-22

15-17, February 2023



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

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Professor, Dept. of Mechanical Engg. Tanta
University, Egypt

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

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IIITDM Jabalpur MP

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Department of Mechanical Engineering
IIT Indore

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Mechanical Engineering, IIT Madras

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Scientist "E", DRDO, MTRDC,
Ministry of Defence, Bangalore India

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Department of Mechanical Engineering,
Delhi Technological University (DTU)
New Delhi

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Govt. Engineering college Patan, Gujrat

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Centre for Industry Institute Partnership
Programme (CIIPP), UIET, Panjab
University, Chandigarh

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Allahabad, Uttar Pradesh

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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. 2022**
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>

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Department of Mechanical Engineering