### **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, 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

### **Patron**

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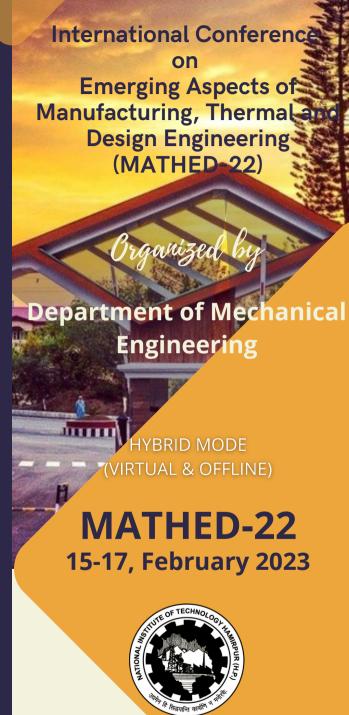
#### National Institute of **Technology Hamirpur**

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

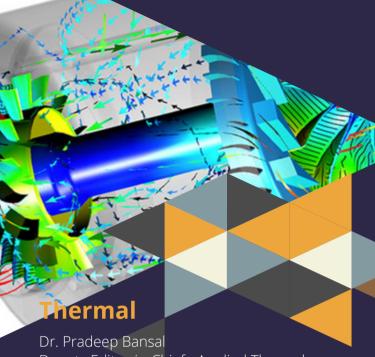
On 26th June 2002, REC Hamirpur was awarded the status of Deemed University and upgraded to National Institute of Technology. The goals of the Institute as embodied in logo are truly remarkable in their scope and vision. The Institute offers Master Doctoral Bachelor, and programmes in Engineering, Sciences,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

### About Department Mechanical Engineering

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







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

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

Dr. Kishor Kr. Sadasiyuni Professor, Center frr Advanced Materials, Qatar University, Quatar

# **KEYNOTE** Speakers

# **Manufacturing**

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

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 & Indusrial 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. Pandev Professor, Dept. of Mechanical E IIT Delhi, India

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

Mr. Devrai latav General Manager, Quality Assurances Emami Ltd., Kolkata, India

# National Advisory Committee

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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

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

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

# InternaL Advisory Committee

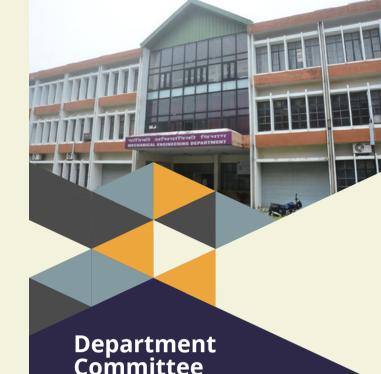
Dr. Sunand Kumar Professor, DoME, NIT Hamirpur

Dr. Anoop Kumar Professor, DoME, NIT Hamirpur

Dr. Rajiv Sharma, Assoc. Professor DoME, NIT Hamirpur

Dr. Siddhartha, Assoc. Professor DoME, NIT Hamirpur

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



# Management and Hospitality Committee

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

## Technical Committee

Dr. Dilshad A. Khan Dr. LaxmiKant 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. 2022**Notification of Acceptance: **15, Jan. 2023** 

Registration ends: 10, Feb. 2023

### **Submission Link:**

https://easychair.org/conferences/?conf=methed2022

Paper template: <a href="https://rb.gy/edro3d">https://rb.gy/edro3d</a>

# **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**IES Code : **SBIN0010367** 

Bank Name : **STATE BANK OF INDIA** 

Branch Name: NIT HAMIRPUR
MICR No.: 177002003



**Contact Us** 

01972-254702

mathed.med.nith@gmail.com

www.nith.ac.in

**Department of Mechanical Engineering**