

# ISME-2023

## BENGALURU, INDIA

### 13th -15th July, 2023



## 21st ISME International Conference on Advances in Mechanical Engineering

Jointly organized by



Dept. of Mechanical Engg.  
Bengaluru, Karnataka, INDIA



Dept. of Mech. Engg.  
IIT Madras

Under the aegis of



Indian Society of Mechanical Engineers (ISME)  
New Delhi.

## ABOUT THE CONFERENCE



### 21st ISME Conference on Advances in Mechanical Engineering

ISME-2023 aims to create an international conglomeration of industrial experts, researchers, scientists, faculty members and students. This serves as a platform for all those working in various domains of Mechanical Engineering to share information about diverse technological advancements, innovations, and achievements in the areas of machine design, manufacturing, thermal, aerospace, automotive engineering, etc., The focus of this conference is to provide a technical platform that encourages scientific research and educational activities that would cater to the needs of both academia and industry.

The conference comprises of keynote address and expert lectures by eminent speakers from across the globe, who will be presenting on the recent trends and challenges in the field of mechanical engineering in addition to selected papers being presented during the conference. The present ISME conference on mechanical engineering jointly organized by PES University, Bengaluru and IIT Madras under the aegis of Indian Society of Mechanical Engineers (ISME), New Delhi is the 21st in the series of conferences. The conference will be held during 13<sup>th</sup> to 15<sup>th</sup> July, 2023 at PES University, Bengaluru.

## ABOUT PES UNIVERSITY

Peoples Education Society (PES) was established in the year 1972 and is celebrating its Golden jubilee. PES University, located in Bengaluru is India's leading teaching and research universities. The University is committed to provide its stake holders a holistic learning environment with state-of-the art infrastructure. PES University has been consistently ranked among the top 100 institutions in the country by NIRF.



Students graduating from the university will have the ability to adapt to an intellectually and technologically changing environment. PES has accomplished this with the participative efforts of the management, staff, students and parents. Programs offered at PES University are the most sought after by students across the country. PES University has become a one-stop destination for leading industries to hire talent. PES strives to provide students an invigorating environment for making learning a pleasure for students as well as to showcase their talents.

## About IIT Madras



Indian Institute of Technology Madras was founded in 1959 with technical and financial assistance from the former government of West Germany, It was the third IIT that was established by the Government of India. Spread over 620 acres in the heart of Chennai, IIT Madras houses around 16 departments with more than ten thousand students and over six hundred faculty members. It is ranked the best engineering institute in India by NIRF ranking and has attained first position in the maiden edition of ATAL Ranking of Institutions on innovation achievements. Among other achievements, IIT Madras has created India's first university based research park fostering collaboration between academia and industry.



## CALL FOR PAPERS (List of Topics not limited to)



### Track 1: Machine Design

- Product Design and Development
- CAD/CAE/FEM/Modelling & Simulation
- Fatigue, Fracture & Failure Analysis
- Vibrations/ Condition Monitoring
- Rotor Dynamics
- Multi-body Dynamics
- Tribology
- Robotics and Mechatronics
- Computational Mechanics
- Sensors & Actuators
- Materials failure Analysis
- Engineering Optimization
- Machines and Mechanisms
- Mechanics of Composites
- Biomechanics
- Fracture Mechanics
- Vehicle Dynamics

### Track 2: Materials, Mnf. and Industrial Engineering

- Additive Manufacturing/Rapid Prototyping
- Micro and Nano Manufacturing
- Welding/Casting/Forming Process
- Conventional/ Unconventional Machining
- CIM/CAM/ Modeling and Simulation
- Composite Materials, Powder Metallurgy
- Supply Chain Management
- Reliability Engineering/ Quality Engineering
- Product Life Cycle Management
- Industry 4.0
- Micro Machining
- Surface Science & Engineering
- Materials Characterization
- Functionally graded Materials

### Track 3: Thermal Engineering

- Multi-phase Flow
- Alternative Fuels
- Fluid Mechanics/CFD
- Combustion and IC Engines
- Fluid Machinery
- Heat and Mass Transfer
- Refrigeration and Air-conditioning
- Renewable Sources of Energy
- Thermal Systems Simulation
- Heat Exchangers
- Flow measurements
- Combustion & Pollution
- Droplet and spray evaporation
- Colloidal and Suspensions
- Computational Fluid Dynamics
- Green Energy



## SUBMISSION GUIDELINES AND IMPORTANT DATES

The authors should submit one page extended abstract to the conference email (ismepesu21@gmail.com), before the deadline. The authors of accepted abstracts would be required to submit the full length manuscript as per the instructions, which will be provided on the website. (<https://events.pes.edu/10674>)

LAST DATE FOR SUBMISSION OF EXTENDED ABSTRACT:	27th March 2023
ABSTRACT ACCEPTANCE NOTIFICATION:	12th April 2023
LAST DATE OF FULL LENGTH MANUSCRIPT SUBMISSION:	08th May 2023
MANUSCRIPT ACCEPTANCE NOTIFICATION:	22nd May 2023
REGISTRATION BEGINS:	22nd May 2023
REGISTRATION OF AUTHORS ENDS:	05th June 2023
PARTICIPANT REGISTRATION ENDS:	13th July, 2023
<b>CONFERENCE DATES:</b>	<b>13th -15th July 2023</b>



## REGISTRATION

At least one author of each accepted paper must register in order for the paper to be included in the proceedings. Student registrations are only acceptable if first author of the paper is a registered student from an Institution. Registration Fees

Participants from Industry:	₹ 10,000.00
Participants from Academia:	₹ 6,000.00
Participants: ISME Member:	₹ 4,000.00
Student Participants:	₹ 3,000.00
Student ISME Member:	₹ 2,000.00
Foreign Delegates:	\$ 300.00 USD

### Payment of Fees

A/c No.: 589302010008267

A/c Name: ISME Conference

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## Contact

**PES University**  
Department of Mechanical Engineering  
100 feet road, Banashankari 3<sup>rd</sup> stage  
Bengaluru - 560 085, Karnataka, INDIA

Contact Person: Dr. Chandrashekara C V: +91 96862 96019,  
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