

22ND ISME International Conference on

“RECENT ADVANCES IN MECHANICAL ENGINEERING FOR SUSTAINABLE DEVELOPMENT” (ISME-2024)

Organized by

Department of Mechanical Engineering,
Delhi Technological University
in collaboration with
Indian Society of Mechanical Engineers



**JULY 11-13, 2024
(HYBRID MODE)**

One best research paper in all the given tracks will be provided the best research paper certificate and, one best paper in each technical session will be selected for the certificate award based on the Research methodology, Content, and presentation.



Keynote Speakers



Prof. H.C. Lim

Pusan National University,
South Korea



Prof. Yogi Goswami

University of South Florida,
USA



Prof. Brian Norton

Technological University,
Dublin



Dr. Sanjay Thakur

Founder & CEO, Kintsugi
Consultancy, Singapore



Conference Advisory Board

International

- Prof. HeeChang Lim, Pusan National University, South Korea.
- Prof. Yogi Goswami, University of South Florida, USA.
- Prof. Brian Norton, Technological University Dublin.
- Dr. Shyam S. Pandey, Kyushu Institute of Technology, Japan.
- Prof. Ahmed M Abdel-Ghany, King Saud University, Saudi Arabia.
- Prof. Shyam S. Pandey, Kyushu Institute of Technology, Japan.
- Dr. Nadim Reza Khandaker, North South University, Bangladesh.
- Dr. Nitin Upadhye, University of Modern Sciences, United Arab Emirates.
- Prof. Haeng Muk Cho, Kogju National University, South Korea.
- Mr. Dhiraj Shah, Ambigai Consultancy Services GmbH, Germany.
- Dr. Afzal Husain, Sultan Qaboos University, Sultanate of Oman.
- Dr. Amrik Singh, PACCAR Australia.
- Dr. Ashish Shukla, Coventry University, UK.
- Dr. Narendra Pal, United Hydrogen, Canonsburg, Pennsylvania, USA.
- Dr. Subhash Chavan, FEMCOM GmbH, Germany.
- Dr. Shashank Mohan, Alfa Laval, Canada.

National

- Prof. S.P. Singh, MED, IIT Delhi.
- Prof. S. Aravindan, MED, IIT Delhi.
- Prof. D. Ravi Kumar, MED, IIT Delhi.
- Prof. M. Senthilkumar, PSG COT, Coimbatore.
- Prof. K. A. Subramanian, DESE, IIT Delhi.
- Prof. Rajesh Kumar Singh, MDI Gurgaon.
- Prof. P. Srinivasan, BITS, Pilani.
- Prof. Anurab Chanda, Jadavpur University.
- Prof. Vikram Singh, YMCA Faridabad.
- Prof. M. K. Gaur, BITS Gwalior.
- Prof. Rajat Gupta, NIT Silchar.
- Er. Abhishek Mittal, ICAT, Gurgaon.
- Er. Deepak Agrawal, Eby T Technologies Pvt. Ltd.
- Dr. Sachin Chugh, IOC R&D Faridabad.
- Prof. Prashant Jain, IIIT Jabalpur.
- Prof. A. Palani, IIT Indore.
- Mr. Mahesh Kumar, CEO, Vossloh Beekay Castings Ltd, Bhilai, India.
- Mr. Sarvadeep Chauhan, Vice President, Luminous Power Technologies (P) Ltd., Gurugram.
- Mr. Amit Prakash, Engineers India Ltd., Delhi.
- Mr. C. K. Goyal, Associate Vice President, DIMTS, Delhi.



Chief Patron

Prof. Prateek Sharma
Hon'ble Vice Chancellor, DTU, Delhi

ISME Representatives

Prof. D. Ravi Kumar
Prof. S. Aravindan

Treasurer

Dr. K. Manjunath
Dr. K. Srinivas

Patrons

Prof. Madhusudan Singh
Prof. S.K. Garg

Organizing Secretaries

Prof. Rajesh Kumar
Prof. Qasim Murtaza

Student Conveners

Mr. Gaurav Kumar, Mr. Neeraj Budhraj, Mr. S. Lalhriat Puia, Mr. Praveen Kumar Singh, Mr. Anand Kushwaha

Conference Chairs

Prof. Amit Pal
Prof. Vijay Gautam

Conveners

Dr. Anil Kumar
Dr. Pravin Kumar

Local tour for Delhi, 13 July, 2024 Afternoon



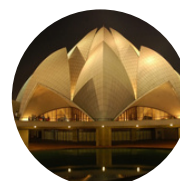
Red Fort



Qutub Minar



India Gate



Lotus Temple

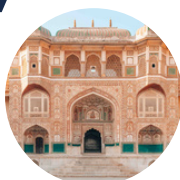
Places to visit nearby Delhi, 13-14 July, 2024



Agra



Haridwar



Jaipur



Kasauli



Call for Papers

ISME-2024 invites prospective authors to submit a full paper with a minimum of eight to ten pages. All submissions will be double-blind peer-reviewed and evaluated based on originality, research content, correctness, and relevance to conference themes. ISME conference - 2024 papers are proposed to be published in Springer LNME and Materials Today Proceedings (Scopus Indexed), and some other selected papers will be recommended for publication in the SCI, SCIE, ESCI, and SCOPUS-indexed journals provided the articles confirm publishing criteria and meet quality standards.

This international conference is being organized in association with the Indian Society of Mechanical Engineers (ISME) constituted by IIT Delhi. The ISME aims at providing a common forum for exchanging ideas, and developments, and setting up new directions in the field of Mechanical Engineering. To achieve the aims since the inception of the ISME, the society has been holding bi-annual ISME conferences on Mechanical Engineering which have been quite popular amongst the research fraternity of academia and industries.

Registration Fees

Categories	Early Bird Reg. fee (before April 1st)	Reg. fee From 1st April	ISME Members
(A) Practitioner/Industrialists	*INR 9,000/-	*INR 10,000/-
(B) Academician	*INR 6,000/-	*INR 7,000/-	*INR 5,600/-
(C) Student	*INR 3,000/-	*INR 4,000/-	*INR 3,200/-
(D) Co-Authors /Attendees (Provided one author is already registered)	*INR 2,000/-	*INR 3,000/-
(E) International Delegates	USD 250	USD 300

Research Paper Tracks

Thermal and Energy Engineering (Track 1)

- Alternative Fuels
- CFD
- Combustion and IC Engines
- Fluid Machinery
- Heat and Mass Transfer
- Refrigeration and Air-conditioning
- Renewable Sources of Energy
- Thermal Systems Simulation
- Combustion & Pollution
- Colloidal and Suspensions
- Green Energy and Energy Harvesting

Industrial Engineering and Management (Track 2)

- Supply Chain Management
- Reliability Engineering/ Quality Engineering
- Product Life Cycle Management
- Industry 4.0

Experimental and Computational Design (Track 3)

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

Materials and Manufacturing Science (Track 4)

- Additive Manufacturing/Rapid Prototyping
- Micro and Nano Manufacturing
- Welding/Casting/Forming Process
- Conventional/ Unconventional Machining
- CIM/CAM/ Modeling and Simulation
- Composite Materials, Powder Metallurgy
- Micro Machining
- Surface Science & Engineering
- Materials Characterization
- Functionally graded materials
- Renewable Materials

Conference Objectives

The main objective of ISME-2024 is to provide an opportunity for leading academicians, engineers, scientists, researchers, industrial professionals and students from around the world to network and have scientific discussions on the latest developments in the fields of Material Science Development, Manufacturing Advances and Thermal Engineering. The research areas are kept open for the scientific community to promote interdisciplinary research and development in these areas.

There shall also be a special session for the undergraduate students, which shall offer the budding engineers/innovators an opportunity to showcase their talent.

ISME-2024

About DTU

Delhi Technological University (DTU), formerly known as the Delhi College of Engineering (DCE) is a state university in Rohini, Delhi, India. It was established in 1941 as Delhi Polytechnic. In 1952, it started giving degrees after being affiliated with the University of Delhi. The institute has been under the Government of Delhi since 1963 and was affiliated with the University of Delhi from 1952 to 2009. In 2009, the college was given university status, thus changing its name to Delhi Technological University.

About ISME

ISME was setup on 26th February 1976 with registration No. 7980 under the government of NCT of Delhi, India. The society aims at providing a common forum for exchanging the ideas, developments, and setting up new directions in the broad field of Mechanical Engineering. For achieving the aims since the inception of the ISME, the society has been holding bi-annual ISME conferences on Mechanical Engineering which have been quite popular amongst the research fraternity of academia and industries. The ISME has been one of the most active technical organizations of the country, which has been publishing three journals, holding workshops and various courses at regular interval of time.

Department of Mechanical Engineering

Department of Mechanical Production & Industrial and Automobile Engineering, DTU, Delhi has seen considerable growth since its inception in 1941. The department offers UG programs in Mechanical, Production & Industrial Engineering, and Automobile Engineering and PG programs in Thermal Engineering, Production Engineering, Energy Systems and Management, Industrial Engineering and Management, and Computer Aided Analysis and Design.

Important Dates

- Submission deadline for Full-Length Papers: January 31, 2024
- Acceptance notification: Within 02 weeks of submission
- Camera Ready Submission: March 15, 2024
- Conference Dates: July 11-13, 2024

Link for Paper Submission

<https://easychair.org/conferences/?conf=ramesd2024>



CFP Submission

Scan to submit paper

For Further Information

✉ ramedtu@dtu.ac.in

🌐 www.ramedtu.in