



1st International Conference

on

Mechanical Design and Manufacturing

ICMDM 2023

27-28 April 2023

Under the aegis of

IEST Mech Centenary Conferences & Symposia (CCS) 2023

Organized by

Department of Mechanical Engineering

Indian Institute of Engineering Science and Technology, Shibpur



ABOUT THE CONFERENCE

The 1st International Conference on Mechanical Design and Manufacturing (ICMDM 2023) will bring together the experts and budding researchers working in the area of Mechanical Design and Manufacturing, two vital specializations of Mechanical Engineering. This conference will be organized concurrently with another international conference (2nd International Conference on Energy Resources and Technologies for Sustainable Development) as a part of the Centenary Celebrations of the department.

CALL FOR PAPERS

Full length research papers of original quality are solicited on the conference topics listed below as well as on other topics not explicitly mentioned herein but are well related to the theme of the conference.

- Dynamics, vibration and control
- **Nonlinear dynamical systems**
- Mechatronics, robotics and automation
- **Analytical and computational solid mechanics**
- Experimental solid mechanics
- **Fracture mechanics and plasticity**
- Industrial tribology
- **Non Destructive evaluation**
- Biomechanics and biotribology
- **Advances in materials and metallurgy**
- Metal cutting and metal forming
- **Non-conventional manufacturing processes**
- Ergonomics in design and manufacturing
- **Industry 4.0**
- Advanced manufacturing processes
- **Additive manufacturing**
- Industrial engineering and operations research
- **Interdisciplinary and other emerging areas**
- Design theory and methodology

Research articles to be submitted in the conference format (available on conference website) within the submission deadline through proper submission link (given in the website).

REGISTRATION

Every accepted paper must be backed by a registration to be eligible for inclusion in the conference proceeding. Requisite fees as applicable for national and international delegates to be paid as per the registration guideline (refer to the website).

Students: INR 1000

Academia: INR 2500

Industry: INR 3000

International participant: USD 80

Registration beyond the deadline will attract a late registration fee of INR 500 (50 \$ for international participants) and will be subjected acceptance from conference Chair.

Registered participants may attend the conference physically or virtually.

MODE OF CONFERENCE

Hybrid

PUBLICATION

All accepted and presented papers will be included in conference proceedings (electronic) and considered for publication as book chapter/special journal issue of reputed publishers (Springer or equivalent), subject to the review.

ABOUT THE INSTITUTE & DEPARTMENT

Indian Institute of Engineering Science and Technology (IEST), Shibpur (Erstwhile 'Bengal Engineering College') is the first institute to become IEST in India in 2014. The Institute has a rich history. It is empowering the nation since 1856. Considering the year of establishment, it is the 3rd engineering college in India but considering the year of graduation it is the 2nd oldest engineering college in India. It has 16 departments and 8 schools. It has over 250 faculty members and a student strength of over 4000. The institute has a beautiful green campus covering an area of nearly 49 hectares on the western bank of the river Hooghly.

Department of Mechanical Engineering, IEST Shibpur, has completed 100 years of its existence in 2021. The inception of the Mechanical Engineering Department may be traced back to the pre-independence era of the country, with the initiation of a diploma course in Mechanical Engineering in 1921. The first degree level course in Mechanical Engineering started on 18th July 1930. Post-graduate course in the department started in the year 1954. Over the years, through its high level of teaching and research in mechanical engineering, the department has earned a name and fame for itself, making significant contributions to this important field of engineering. The Department offers 8-Semester Undergraduate (UG) and 4-Semester Postgraduate (PG) courses in Mechanical Engineering, with current annual intake of 92 students in UG and 30 students in PG. A 10-semester Dual Degree B.Tech-M.Tech program is also in place. Currently, the PG courses are available in three specializations, namely, Machine Design, Thermal Engineering, and Manufacturing Science, leading to the degree of Master of Technology. The department also runs a full-time PhD program, where currently about 40 research scholars are engaged.

IMPORTANT DATES AND TIMELINES

Full paper submission: 25th March 2023

Notification of acceptance: 31st March 2023

Registration opens: 3rd April 2023

Registration close: 17th April 2023

Conference: 27-28th April 2023

A pre-conference workshop/symposia will be organized on 26th of April as a part of the conference.

CONTACT

Chairman: Dr. Sudip Ghosh, HoD, Mechanical Engineering Department

Coordinators:

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EVENT WEBSITE

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