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INTERNATIONAL CONFERENCE

(Hybrid Mode)

Trends & Advances in Mechanical Engineering

TAME 2026

(Innovations in Manufacturing,
Robotics, Mechatronics,
AI & Digital Engineering for
Sustainable Development)

16-17 April 2026

in association with



SDGs



SDGs



**J.C. BOSE UNIVERSITY OF SCIENCE
AND TECHNOLOGY, YMCA, FARIDABAD**

NAAC 'A+' Grade Accredited State Govt. University

(Established by Haryana State Legislative Act No. 21 of 2009,

Recognized by U.G.C. u/s 2 (f) and 12(B) of U.G.C. Act 1956)

NH-2, Sector 6, Faridabad (Haryana) 121006

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About the University

J.C. Bose University of Science and Technology, YMCA, Faridabad formerly known as YMCA University of Science and Technology, has exerted a great deal of effort to promote the Technical Education in the State and the Country at large over the past five decades since its inception as an Indo-German project in 1969. An Institution that had a humble beginning as a post diploma institution famous for generating skilled technical human resource for the industry has been elevated in 2009 as University of Science and Technology to further create competent human resource in diversified areas of Science & Technology. The competence of the University has been recognized at various levels by the agencies like UGC (12B status), NAAC (Grade 'A+'), NIRF (best ranking amongst State Engineering Universities in Haryana) and selection for TEQIP-III project as well as RUSA Scheme of MHRD, Govt. of India. Right from the very beginning at institutional level, it has emphasized greatly on practical work related to industry. As a result, our students are well accepted by the industries. The University offers B.Tech. programs in almost all disciplines and has also added new chapters in its glorious history i.e. MBA, MCA, M.Tech., M.Sc., M.A. (Mass Communication and Journalism), B.Sc. Hons, BCA, BBA, B.Sc. (Animation & Multimedia) and Ph.D.

About the Department

The Department of Mechanical Engineering has been in existence since inception of institute in 1969. At present the department offers UG, PG and Doctoral programmes. At UG level, programs offered are B.Tech.-Mechanical Engineering, B.Tech.-Robotics and AI and B.Tech. - Mechanical Engineering (in Hindi language). At PG level, M.Tech. programme is offered with specialization in Manufacturing Technology and Automation. In addition, Minor degrees are being offered in few specialized areas.

The department is actively engaged in research work in the broad area of Design, Manufacturing, Thermal, Energy Conservation, Total Quality Management, Product and Service Quality, Computer Integrated Manufacturing, Industrial Engineering, Computer Aided Engineering, Just in Time, Supply Chain Management etc.

The departmental facilities include 14 labs, 3 workshops (Machine Tools, Refrigeration & Air conditioning, Fabrication & Sheet Metal Technology), 8 lecture halls, 1 conference room and 1 seminar hall with Wi-Fi facilities. Department has two centres of excellence in collaboration with Danfoss Industries (P) Ltd. (for Climate and Energy), and Daikin Air-Conditioning (P) Ltd. (for Air-Conditioning).

The department has highly qualified and experienced faculty including 11 professors, 3 Associate professors and 10 Assistant Professors. 23 of the faculty members are Ph.D. holders with average experience of 14 years.

Conference Tracks

Suggested tracks include, but are not restricted to:

- 1. Advanced Manufacturing and Industry 4.0/5.0**
 - Additive manufacturing (3D/4D printing)
 - Smart factories and digital twins
 - Robotics and automation in manufacturing
 - Cyber-physical systems
 - AI and data analytics in production systems
- 2. Sustainable & Green Mechanical Systems**
 - Renewable energy systems (wind, solar, hydrogen)
 - Energy-efficient thermal systems
 - Sustainable materials and eco-design
 - Life cycle assessment and carbon neutrality
 - Waste heat recovery and energy harvesting
- 3. Smart Materials, Mechanics & Structural Innovations**
 - Smart and adaptive materials
 - Advanced composites and nano-materials
 - Fracture mechanics and durability
 - Lightweight structures for aerospace and automotive
 - Bio-inspired and multi-functional materials
- 4. Robotics, Mechatronics & Autonomous Systems**
 - Autonomous robots and mobile platforms
 - Human-robot interaction
 - Mechatronic system design
 - Control systems and sensor integration
 - Medical, service, and industrial robotics
- 5. Computational Mechanics, AI & Digital Engineering**
 - Computational fluid dynamics (CFD) and FEA
 - AI-driven design optimization
 - Machine learning in mechanical systems
 - Multiphysics modeling and simulation
 - Virtual prototyping and digital engineering workflows
- 6. Indian Knowledge System for Indigenous Technologies**
 - Philosophical Foundations of Indigenous Innovation
 - Traditional Engineering and Architectural Excellence
 - Energy Practices in Traditional Systems
 - Modern Adaptation of Indigenous Technologies

Call for Papers

Full length papers covering original research work and case studies are invited in the above areas. Manuscripts previously submitted or accepted elsewhere for the publication must not be submitted. Strict adherence to ethics is expected. While similarity upto 20% is acceptable, plagiarism in no case will be accepted.

The abstract, not exceeding 250 words should be in italics. The paper should preferably not exceed 8 pages including figures, graphs, tables and references. The author(s) should give track of the paper, title of the paper, author(s) name(s), affiliation, and address for correspondence including e-mail.

For further information and clarification regarding format visit website: <https://www.jcboseust.ac.in/tame2026>

Conference Paper Publications

All registered and presented papers in the conference shall be published in Conference e-proceeding / SCIE / Scopus Index Journal.

Papers not registered / presented in the conference will not be considered for publication in journal as well as e-proceeding of the Conference.

Registration Information

The full length paper as per template may be sent through link <https://forms.gle/nT6D5PJXZr3WQLM16> or by email to tame2026@jcboseust.ac.in. Participants are requested to register in advance through online registration link at <https://www.jcboseust.ac.in/tame2026>.

The registration fee covers the Souvenir, Conference kit, refreshment and lunch during the days of conference. For paper to be included in the proceedings at least one author must register.

Registration Fee

| Delegate Category | National Participants | International Participants |
|---|-----------------------|----------------------------|
| Industry Professionals | Rs. 2000/- | } \$ 40.00 |
| Academicians | Rs. 1000/- | |
| Students/Research Scholar/ Accompanied Person* | Rs. 500/- | |

*Registration Fee exempted for Students and Research Scholars of J. C. Bose UST, YMCA, Faridabad.

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How to Reach Us

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| By Air : Indira Gandhi International Airport | : 45km |
| By Train : New Delhi Railway Station | : 35 km |
| H. Nizamuddin Railway Station | : 25 km |
| By Road : ISBT Kashmere Gate | : 40 km |
| ISBT Sarai Kale Khan | : 28 km |
| ISBT Anand Vihar | : 38 km |
| By Metro : Metro Station (Escorts Mujesar) | : 0.2 km |

Important Dates

| | |
|--------------------------------|-----------------------------|
| Full Paper Submission Deadline | 30 16 March 2026 |
| Notification of Acceptance | 31 28 March 2026 |
| Registration Deadline | 31 30 March 2026 |