



Federal Institute of Science And Technology (FISAT)

Hormis Nagar, Mookkannoor P.O, Angamaly, Kerala 683577

In association with

King Mongkut's University of Technology North Bangkok (KMUTNB), Thailand
and College of Engineering, Universiti Teknologi MARA (UiTM), Malaysia.

3rd INTERNATIONAL CONFERENCE

on

**SUSTAINABLE MATERIALS, MANUFACTURING AND
RENEWABLE TECHNOLOGIES 2023**

i-SMaRT 2023

24th May to 26th May 2023

Theme : **MARCHING TOWARDS A SUSTAINABLE FUTURE**

Organized by

DEPARTMENT OF MECHANICAL ENGINEERING

**FISAT[®] | FEDERAL INSTITUTE OF
SCIENCE AND TECHNOLOGY**

Accredited by NAAC with A+ Grade & NBA Accredited Programs

ABOUT THE CONFERENCE

The International Conference on Sustainable materials, Manufacturing and Renewable Technologies (i-SMaRT) is an international peer-reviewed annual academic conference. The 3rd in series, the i-SMaRT 2023 is organized by the Department of Mechanical Engineering, Federal Institute of Science and Technology in association with King Mongkut's University of Technology North Bangkok (KMUTNB), Thailand and College of Engineering, Universiti Teknologi MARA (UiTM), Malaysia.

i-SMaRT is an ongoing attempt to provide a forum for high-quality academic papers and to promote rapid communication and exchange between researchers, scientists, and engineers in the field of mechanical engineering. The conference also offers a good number of invited lectures from renowned speakers from different parts of the world. The conference will facilitate opportunities to network, collaborate and exchange ideas with renowned scientists and researchers in the field.

The conference publishes original research articles, review articles and feature articles. All the accepted and presented research articles will be published in the conference proceedings book with ISBN number.

The scope of the conference may include following major topics, but are not limited to:

Track 1 – Materials Science

Track 2 – Manufacturing Engineering

Track 3 - Renewable Energy Technologies

Track 4 - Industrial Engineering & Management



Federal Institute of Science And Technology (FISAT)[®] is an Engineering College, established and run by the Federal Bank Officers' Association Educational Society (FBOAES), an initiative of the Federal Bank Officers Association (FBOA), the sole representative body of the officers of the Federal Bank. FISAT has a unique position in the Professional Education Sector in South India and has designed itself to work with the motto "Focus on Excellence" to carve a niche for itself in the education world, eloquently demonstrated by the flying colors attained by its students. FISAT is affiliated to APJ Abdul Kalam Kerala Technological University. The college offers Seven B.Tech programs and five M.Tech programs along with PhD Programmes in the faculty of engineering, besides the post graduate MCA and MBA programmes.

In recognition to the Institute's academic excellence and overall growth, FISAT has been accredited with 'A+' grade by the National Assessment and Accreditation Council (NAAC).



OUR PARTNER

King Mongkut's University of Technology North Bangkok (KMUTNB)

King Mongkut's University of Technology North Bangkok (KMUTNB) is a technology university in Thailand. KMUTNB, is a renowned public higher education institution in Thailand. With a focus on engineering and applied sciences, the university strives to encourage innovation in science and its application in industry.

The predecessor of KMUTNB, called Thai-German Technical School, was established as a partnership between the German and Thai governments in 1959. Since then, the institutions follow German standards and higher education structure. In 2007, King Mongkut's Institute of Technology North Bangkok was renamed King Mongkut's University of Technology North Bangkok and became an autonomous state university.

After half a century of transformation, the university now consists of three main campuses, which cover over 200 hectares of land. They are located in Thailand's capital Bangkok, famous for its vibrant cultural life; Prachinburi, a small city in northeast Thailand; and Rayong, a town located in the heart of the Thai agricultural and industrial realm.

The institute is organized into 12 faculties such as the faculty of engineering, the faculty of technical education, college of industrial technology and the faculty of applied science.



OUR PARTNER

Universiti Teknologi MARA (UiTM), Malaysia

Universiti Teknologi MARA (UiTM) is the largest comprehensive university in Malaysia providing innovative education with state-of-the-art infrastructure and technology within reach at its 34 campuses, 4 colleges of studies, 13 faculties, and 9 academic centres all over the country. The main campus of UiTM is situated in the bustling city of Shah Alam in the state of Selangor.

UiTM offers over 500 academic programmes at Foundation, Pre-Diploma, Diploma, Bachelor's, Master's, and PhD levels, as well as Professional Programmes. Amongst its long list of recent accolades, UiTM is ranked 104th in the QS Asia University Rankings 2023, placed 651–700 in the QS World University Rankings 2023, and was ranked 361–380 for QS World University Rankings: Sustainability 2023 and 4th in Malaysia. UiTM is the proud recipient of the 3G SDGs Championship Award 2022. In June 2022, UiTM received the Reader's Digest Trusted Brand Gold Award for the 12th time in the public university category and for the first time, UiTM was bestowed The Brand Laureate Best Brands Awards 2022 – the Nation's Pride Higher Education.

With over 900,000 alumni in science, technology, humanities, and entrepreneurship, UiTM offers opportunities to shape leaders at national, industry, and global levels and is well poised to become a globally renowned university by 2025. UiTM continues to expand access to higher education, playing its role in nation-building by unleashing potentials and shaping the future.



Mechanical Engineering department at FISAT offers a B.Tech programme in Mechanical Engineering (NBA Accredited) and an M.Tech programme in Renewable Energy. The department is also recognized as a research center for Ph.D programme by the APJ Abdul Kalam Technological University, Kerala. Its strong and interactive curriculum and hands-on learning will make the students capable of taking their career to the next level, whether it be in the professional engineering practice or in advanced studies. The Discipline of Mechanical Engineering effectively connects teaching of engineering education to active research in different areas. The department has the most modern infrastructure to undertake high-end teaching, research and developmental activities in its eight laboratories.

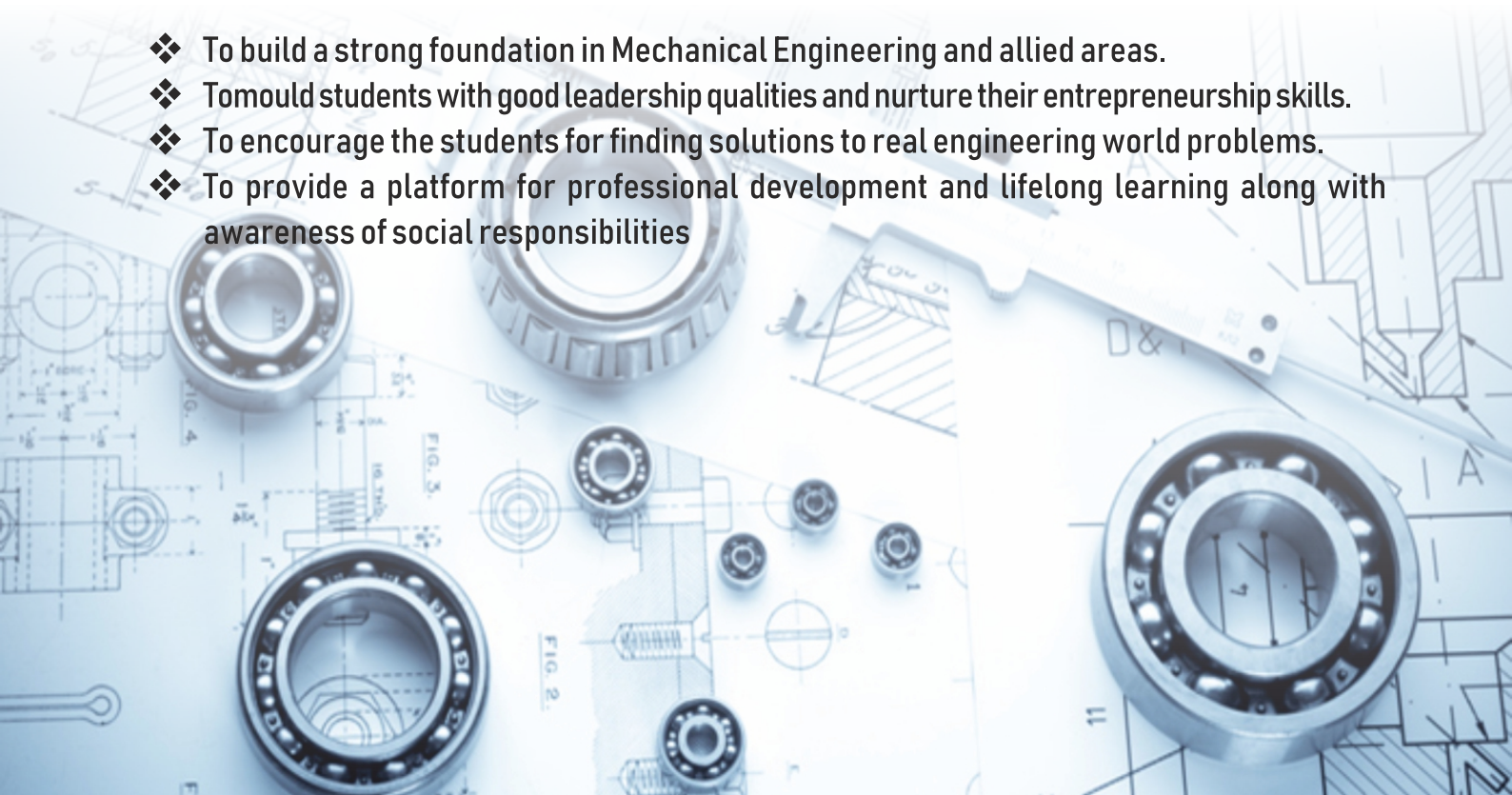
We aim to provide our students with a perfect blend of intellectual and practical experiences that helps them to serve our society and address a variety of needs. With a solid grounding in the principles and practice of mechanical engineering, our undergraduates are ready to engage in ethical approaches to engineering, with concern for society and the environment. Our program at the postgraduate level aligns academic course work with research, to prepare students in specialized areas within the field of mechanical engineering. The department has a team of highly qualified and experienced faculty.

Vision

To develop as a centre of excellence in Mechanical Engineering, moulding competent engineers with social commitment, capable of undertaking technical responsibilities and innovative challenges.

Mission

- ❖ To build a strong foundation in Mechanical Engineering and allied areas.
- ❖ To mould students with good leadership qualities and nurture their entrepreneurship skills.
- ❖ To encourage the students for finding solutions to real engineering world problems.
- ❖ To provide a platform for professional development and lifelong learning along with awareness of social responsibilities



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Assistant Professor, Vermont State University, United States of America.

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Assistant Professor, King Mongkut's University of Technology North Bangkok (KMUTNB), Thailand.

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Design Engineer, Vodafone New Zealand Limited, Auckland, New Zealand.

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Assistant Professor, National Institute of Technology (NIT) Warangal.

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Professor, Cochin University of Science and Technology (CUSAT), Kochi.

Prof. Dr. Kulvir Singh

Professor, Thapar Institute of Engineering & Technology, Patiala.

Prof. Dr. Sanjeeb Kumar Rout

Professor, Birla Institute of Technology (BIT) Mesra, Ranchi, Jharkhand.

Dr. Rijesh M.

Associate Professor, Vellore Institute of Technology (VIT) Vellore.

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Assistant Professor, Amrita Vishwa Vidyapeetham, Coimbatore.

Dr. Sudhy S. Panicker

Assistant Professor, Birla Institute of Technology & Science, Pilani - K K Birla Goa Campus.

CALL FOR PAPERS

Prospective authors from India and abroad are invited to submit manuscripts reporting original unpublished research and recent developments in the topics related to the conference. Full length articles or Abstract for oral/poster presentation that illustrate research results, projects, experiment works and industrial experiences that describe significant advances in the following areas are solicited, but are not limited to following scientific themes:

The scope of the conference may include following major topics:

- Track 1 – Materials Science
- Track 2 – Manufacturing Engineering
- Track 3 – Renewable Energy Technologies
- Track 4 – Industrial Engineering & Management

IMPORTANT DATES

Call for Papers :
15-11-2022

Registration starting from :
25-01-2023

Last date for submission of full paper :
30-04-2023

Acceptance of full Paper :
10-05-2023

Last date to Submit Camera ready paper :
06-05-2023

Registration Ends :
11-05-2023

Dates of the conference :
24th-26th May, 2023

PAPER SUBMISSION



SCAN ME

To submit your papers, log in to the submission Web page for i-SMaRT 2023:

**Paper Submission Link
i-SMaRT 2023.**

Please visit

<https://www.ismartconference.in/call-for-papers>

for author guidelines to prepare and submit your manuscripts



SCAN ME

PUBLICATIONS

All the accepted papers will be published in proceedings (Abstract book) of i-SMaRT 2023 with ISBN number. In addition to this, authors may opt for any one of the following ESCI/Scopus-indexed journals for publication.

Journal of Mechanical Engineering (JMeChE)

Journal of Mechanical Engineering is an international journal published by College of Engineering, Universiti Teknologi MARA, Shah Alam, Malaysia. It is a Scopus-indexed journal with ISSN: 1823-5514, e-ISSN 2550-164X.

Journal of Advanced Research in Applied Sciences and Engineering Technology

Journal of Advanced Research in Applied Sciences and Engineering Technology is an international journal that contributes to scientific understanding in the area of applied sciences and engineering technology. It is a Scopus-indexed journal with ISSN: 2462-1943.

Journal of Polymer & Composites (JoPC)

Journal of Polymer & Composites (JoPC) is a peer-reviewed journal focussing on the area of polymers & composites. It is a triannual journal. This journal is an ESCI-indexed (Web of Science) journal with ISSN: 2321-2810 (e), 2321-8525 (P).

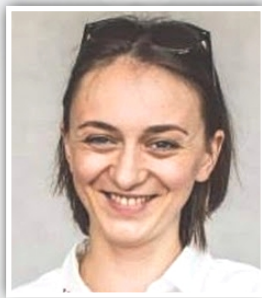


Keynote Speakers



Dr. N V David

Associate Professor, College of Engineering,
Universiti Teknologi MARA, Malaysia.



Ms. Zuzana Gombosova

Co-founder and Director, Malai biomaterials
design Pvt. ltd., Slovakia.



Dr. Peerawatt Nunthavarawon

Assistant Professor, King Mongkut's University of
Technology North Bangkok, Thailand.



Dr. Sunil Pathak

Senior Researcher, HiLASE Center,
Institute of Physics, Czech Academy of Sciences,
Prague, Czech Republic.



Dr. Basil Kuriachen

Assistant Professor, National Institute of
Technology Calicut, India.



Dr. Abhishek Agarwal

Assistant Professor, Vermont State University,
United States of America.

Category

Registration Fees

Students - UG/PG

Rs 1000/-

30 \$

Research Scholars

Rs 1000/-

30 \$

Faculty from academic institution

Rs 1500/-

50 \$

Researchers from Industry

Rs 2000/-

50 \$

Listener without paper presentation

Rs 500/-

20 \$

The registration fee can be paid online using the details below:

Payments are to be made after the acceptance of full paper. Payment can be made through IMPS/NEFT transactions payable at the following bank.

Account Number : 17140100030134

Account Name : Student Association of Mechanical Engineering (SAME)

Bank & Branch : Federal bank, Hormis Nagar Branch

IFS Code : FDRL0001714

MICR : 682049045

3rd INTERNATIONAL CONFERENCE

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RENEWABLE TECHNOLOGIES 2023

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