



KALASALINGAM
ACADEMY OF RESEARCH AND EDUCATION
(DEEMED TO BE UNIVERSITY)
 Under sec. 3 of UGC Act 1956. Accredited by NAAC with "A++" Grade



School of Mechanical, Aeronautical, Automobile and Civil Engineering
Centre for Composite Materials
 Department of Mechanical Engineering

**International Conference
 on**

**Sustainable Development in Advanced
 Materials, Manufacturing and Industry 4.0**

INSDAM'25

27-28 MARCH 2025

CO-ORGANIZED BY



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EPJ Web of Conferences



ABOUT THE UNIVERSITY

Kalasalingam Academy of Research and Education (KARE), is a leading institution located in Krishnankoil, Tamil Nadu, India. Established in 1984, the university has earned a reputation for academic excellence, cutting-edge research, and societal impact. Recognized as a Deemed-to-be University under the UGC Act of 1956, KARE offers a wide range of undergraduate, postgraduate, and doctoral programs in engineering, science, management, architecture, arts, applied sciences, humanities, law and allied health sciences. KARE holds prestigious accreditations and rankings that reflect its commitment to quality education and research. It has been accredited with an 'A++' grade by National Assessment and Accreditation Council and is ranked among the top institutions in India by the National Institutional Ranking Framework (NIRF). In the 2024 NIRF rankings, KARE achieved a commendable position in engineering (36th Rank), university (30th Rank), and overall categories (50th Rank). KARE is globally recognized, being accredited by Accreditation Board for Engineering and Technology (ABET). Additionally, its commitment to sustainability and global engagement is reflected in its high rankings in the Times Higher Education (THE) Impact Rankings. KARE boasts state-of-the-art infrastructure, cutting-edge laboratories, and robust industry partnerships, fostering innovation in areas such as nanotechnology, artificial intelligence, automotive systems, and sustainable development. With a strong emphasis on inclusive education, experiential learning, and entrepreneurship, KARE continues to prepare students to excel in a competitive global environment. Its picturesque campus and vibrant academic ecosystem make it a sought-after destination for aspiring students and researchers.

ABOUT THE DEPARTMENT

The Department of Mechanical Engineering is accredited by NBA and ABET for a period of six years. The department has the state-of-the-art facilities for research through the laboratories namely Materials Processing Laboratory, Advanced Machining & Measurement Laboratory, Machine Dynamics & Condition Monitoring Laboratory, Bio composite Laboratory, Surface Engineering Laboratory and Centre for Advanced Thermal Studies. The department has close interactions with the leading industries for research, development and consultancy. The school has made pioneering and definite contributions in the thrust areas of design, thermal, manufacturing, materials, energy and industrial engineering.

ABOUT THE CONFERENCE

The International Conference on Sustainable Development in Advanced Materials, Manufacturing, and Industry 4.0 is a premier platform for researchers, academicians, scientists and industry professionals to discuss recent advancements in sustainable materials and cutting-edge manufacturing techniques. The conference will also explore the integration of Industry 4.0 technologies such as automation, IoT and AI in manufacturing processes to create eco-friendly and efficient systems. Topics include innovative material development, smart manufacturing, green technologies and their impact on global sustainability goals. It serves as a hub for collaboration, knowledge exchange and shaping the future of sustainable industries worldwide.

CONFERENCE THEMES

The conference aims to cover the following areas but not limited to other themes in the field:

- *Sustainable Advanced Materials*
- *Green Manufacturing and Advanced Manufacturing Technologies*
- *Nanomaterials and Composites*
- *Green Tribology*
- *Industry 4.0 Integration*
- *Smart Factories and Digital*
- *Circular Economy in Industry*
- *Additive Manufacturing*
- *Renewable Energy Integration in Manufacturing*

INSTRUCTIONS

- Submissions should be in .doc format. All the figures should be of minimum 300 dpi quality.
- The tables must not be in image format.
- The authors are responsible for obtaining copy rights for figures and tables which are already published or taken from other sources.
- Similarity Index of the manuscript should be less than 10% (with a maximum of 2% from any single source). The contribution must be original and not published or submitted for publication elsewhere. Experimental work, mathematical analysis, numerical simulation and case studies with novel techniques are more likely for acceptance.
- All papers will be reviewed by the field experts. The corresponding author of selected paper will be intimated through e-mail only. Presentation in the conference will be in hybrid mode. Papers received after the deadline may not be included in the conference proceedings. The papers registered for the conference must be presented by any one of the authors in the conference.
- Certificate of participation/presentation will be issued to the registered delegates/authors attending the conference.
- The abstract of the accepted papers will be published in the conference proceedings with ISBN number. After a careful reviewing process as per the conference norms, the selected full-length papers will be published in Scopus indexed conference proceedings /journal.
- Abstracts/Full length papers should be submitted to the following mail ID: insdam25@klu.ac.in

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| CATEGORY | Bronze | Silver | Gold | Diamond | Platinum |
|--|--------|--------|--------|---------|----------|
| Sponsorship National (INR) | 50000 | 75000 | 100000 | 200000 | 300000 |
| Sponsorship International (USD) | 500 | 1000 | 2000 | 3000 | 4000 |
| No. of free registrations | 1 | 3 | 5 | 7 | 8 |
| Brand Logo in Website, Brochure and Book of Abstract | Yes | Yes | Yes | Yes | Yes |
| Regular Exhibition Stall in a Conference Venue | Yes | Yes | Yes | Yes | Yes |
| Half page advertisement in Book of Abstract | Yes | Yes | Yes | Yes | Yes |
| Invitation for technical talk (15mins) | - | Yes | Yes | Yes | Yes |
| Premium Exhibition Stall in a Conference Venue | - | - | Yes | Yes | Yes |
| Exclusive Adv. Banners for the Brand/Company in the Venue | - | - | - | Yes | Yes |
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| Premium Adv. Banners for Brand/Company in Lunch, Dinner and Poster Sessions | - | - | - | - | Yes |
| Display of 2 mins promo video by the sponsor in all plenary technical sessions | - | - | - | - | Yes |

IMPORTANT DATES

| | |
|--|--------------|
| LAST DATE FOR SUBMITTING ABSTRACT | : 31.01.2025 |
| NOTIFICATION OF ACCEPTANCE | : 07.02.2025 |
| LAST DATE TO SUBMIT OF FULL-LENGTH PAPER | : 14.03.2025 |
| LAST DATE FOR REGISTRATION | : 21.03.2025 |

REGISTRATION FEE

| CATEGORY | Early bird (till 01.03.2025) | | After early bird (after 01.03.2025) | |
|-------------------------------------|------------------------------|-----------|-------------------------------------|-----------|
| | FEE (INR) | FEE (USD) | FEE (INR) | FEE (USD) |
| Industry | 3000 | 250 | 3500 | 300 |
| Govt./Academic/Research Institution | 2500 | 225 | 3000 | 200 |
| Students/Research scholars | 2000 | 200 | 2500 | 175 |
| Listeners | 1000 | 175 | 3000 | 150 |

Registration fee covers the, refreshments, lunch and conference kit. Publication fee not included in the registration fee. Payments to be made in the account given below:

Account Number: 335602011000115
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<https://forms.gle/qBmKg9UHqcCZnA89A>

Scan QR Code or Click the link to Register

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