



**AMET**  
**UNIVERSITY**  
(Deemed to be University Under Section 3 of UGC Act 1956)



**Department of Mechanical Engineering**  
*Organizes*  
**Virtual**  
**International Conference on**  
**TECHNOLOGICAL ADVANCEMENTS**  
**IN MECHANICAL ENGINEERING**  
**ICTAME 2022**

22<sup>nd</sup> & 23<sup>rd</sup> April 2022

**Registration Link**



**ARIIA**  
ATIL RANKING OF INSTITUTIONS  
ON INNOVATION ACHIEVEMENTS

**Academy of Maritime Education and Training (AMET)**

(Deemed to be University)

#135, East Coast Road, Kanathur, Chennai - 603 112

Tamil Nadu, India

Website : [www.ametuniv.ac.in](http://www.ametuniv.ac.in)

## ABOUT THE UNIVERSITY

AMET is India's first deemed to be University in maritime education which is ranked 3 among the maritime universities across the globe by the PIMET (Performance Indicators in Maritime Education and Training) ranking of International Association of Maritime Universities (IAMU). Established in 1993, AMET's uncompromising strides of excellence in the field of maritime education and training laced with its capacity to feed the global shipping industry with an unrivalled human resource secured it to have many national and international recognitions, accreditations, and rankings such as NAAC, NIRF, ARIIA, DGS-CIP, PIMET etc. The National Assessment and Accreditation Council (NAAC) an autonomous institution of the university grants commission has assessed AMET and accredited with "A" grade during September 2021.

### VISION

To sustain identity as a World Class Leader in Maritime Education and empower learners with wholesome knowledge through progressive innovation in training, research and development which will render students a unique learning experience and a transformation impact on the Global Society.

### MISSION

AMET will strive continuously to

- Impart value-based higher education and technical knowledge with uncompromising strides of an outstanding quality.
- Emerge as a Centre of Excellence inculcating skill development in recent technologies in accordance with industrial trends
- Create World class research capabilities on par with the finest in the world and broaden student's horizons beyond classroom education.
- Nurture talent and entrepreneurship and enable all round personality development in students.
- Empower students from across socio economic strata.
- Make a positive difference to society through technical education.

## ABOUT THE DEPARTMENT

The Department of Mechanical Engineering was established during the year 2014. Presently the department offers UG Programme in Bachelor of Mechanical Engineering with minor degree in Industrial Internet of Things (IIoT), PG Programme in Master of Engineering in Thermal and Fluid Engineering and supports Ph.D. program. The department has been accredited by National Board of Accreditation (NBA). Since its inception, the department has grown steady with excellent infrastructure, modern equipment for laboratories, qualified and well experienced faculty members. The choice-based credit system curriculum is framed in such a manner as enable the students to get better employment in the fields of Mechanical Engineering.

### VISION OF THE DEPARTMENT

To develop emerging professionals through innovative teaching learning and research in marine based Mechanical Engineering for ever-changing societal needs with credibility, integrity and ethical standards.

### MISSION OF THE DEPARTMENT

The Vision of the Department is accomplished by the following mission statements

1. Produce job ready engineers in the field of design, manufacturing, thermal engineering by imparting basic sciences and engineering knowledge.
2. Inspire students to pursue higher education in marine/mechanical related fields.
3. Nurture students with creativeness, innovativeness, and entrepreneurship skills to meet the needs of the requirements of the industry.
4. Establish high quality teaching and research environment to offer state-of-art under graduate, post graduate and doctoral programs.

## THEME OF THE CONFERENCE

The objective of this Conference is to bridge gap between the researchers from the academia and the industry under one roof, to gain knowledge in diverse areas of research in the field of Mechanical Engineering. The Conference will provide an attractive platform for the researchers and academicians to discuss novel idea and share their area of interest with the delegates from different parts of our world. The conference includes keynote addresses and invited talks by the eminent speakers around the world, and the oral presentation by researchers.

## CONFERENCE TOPICS

The major topics of Conference include, but not limited to:

### Design

- Machine Dynamics
- Design and Modeling of Solar-Powered Vehicles
- Fracture Mechanics
- Fluid Flow and Heat Transfer
- Renewable and Sustainable Energy
- Solar Energy System
- Nanoscale Heat transfer

### Thermal

- Biofuels
- Computational Fluid Dynamics
- Welding
- Energy Storage
- Refrigeration and Air Conditioning

### Manufacturing

- Additive Manufacturing
- Machine Tool Design
- Metal Cutting Technology
- Nano Materials in Biomedical and Aeronautical Application

## PARTICIPANTS

Industry Professionals, Scientists, Faculty members working in Engineering colleges and Universities, Research Scholars, PG/UG students from Engineering Fields.

## PAPER SUBMISSION

Original research full papers (or) Abstract for presentation in the conference are invited from the faculty members, Research Scholars, Industry professional, Scientists and PG & UG students.



## SPECIAL NOTE

- The Conference will be online via zoom platform/Google meet Platform. Registration is free of cost.
- Participants must present their paper in the conference in their scheduled session only.

## RESOURCE PERSONS

Sessions will be handled by National & International experts from various industries, academic institutions and research center.

## PUBLICATION

All accepted papers abstract will be included in the conference proceedings with ISBN. Selected papers will be published in Scopus Indexed Journals with additional cost.

## REGISTRATION DETAILS

The conference will be online via Google Meet platform Registration is free of cost.

To participate in the conference, one needs to register online using the following link <https://forms.gle/WZo9daFhd3FigsWD6>

Registered delegates will be provided the link for participation. E-certificates will be issued to all the registered participants, who submit their full paper and present their research work in the conference.

## IMPORTANT DATES

### Last date for

- Abstract submission : MAR 31, 2022  
Abstract acceptance : APR 02, 2022  
Full paper submission : APR 16, 2022  
Registration : APR 18, 2022



### Contact Details

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### **CHIEF PATRONS :**

**Dr. J. Ramachandran**, Chancellor, AMET

**Dr. Rajesh Ramachandran**, Pro-Chancellor, AMET

### **PATRON :**

**Col. Dr. G. Thiruvassagam**, Vice-Chancellor, AMET

### **ORGANIZING COMMITTEE :**

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**Dr. D.Arivazhagan**, Director, Ranking and Accreditation, AMET

**Dr. R. Karthikeyan**, Professor & Head, Dept. of Mechanical Engineering, AMET

### **CONVENER :**

**Dr. D. Madhesh**, Professor, Dept. of Mechanical Engineering, AMET

### **CO-CONVENER**

**Dr. V. Leela Vinodhan**, Associate Professor, Dept. of Mechanical Engineering, AMET

### **ADVISORY COMMITTEE**

**Dr. S. Kalaiselvam**, Professor, Anna University, Chennai, Tamil Nadu, India.

**Dr. M. Uthayakumar**, Professor, Kalasalingam Academy of Research and Education, Krishnankoil, Tamil Nadu, India.

**Dr. V. P. Chandramohan**, Associate Professor, NIT, Warangal, Telangana, India.

**Dr. R. Parameshwaran**, Associate Professor, BITS-Pilani, Hyderabad Campus, Secunderabad, India.

**Dr. B. Ashok**, Associate Professor SG-1, VIT, Vellore, Tamil Nadu, India

**Mr. P. Mahendra Kumar**, Additional Chief Manager, NLC India Limited.

### **COMMITTEE MEMBERS**

Dr. K. Umanath

Dr. A. Adinarayanan

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Mr. V. Gnanasekaran

Mr. K. Stalin

Mr. G. Vijayaganth

## **ADMISSIONS FOR THE YEAR 2022-2023 ARE OPEN**

Toll Free Number : 1800 108 3030

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