



Education for
livelihood alone
will never make
our life full
and complete.

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AMMA

2023 INTERNATIONAL CONFERENCE

Advancements in Materials, Manufacturing & Automation

7-8 April, 2023
Hybrid Mode

Organized by
Department of Mechanical Engineering
Amrita School of Engineering, Chennai
Amrita Vishwa Vidyapeetham
Tamil Nadu, India

About Amrita Vishwa Vidyapeetham

Amrita Vishwa Vidyapeetham is a multi-disciplinary, research-intensive, private university, educating a vibrant student population of over 20,000 by 1700+ strong faculty. Amrita offers more than 200 UG, PG, and PhD programs in Engineering, Management, Medical & Life Sciences, Arts & Humanities, Social Sciences and Interdisciplinary Studies. In a short span of 15 years, we have established



180+ collaborations with top 500 world-ranked universities as Amrita is emerging as one of the fastest growing institutions of higher learning in India. Amrita has been recently accredited with an A++, the highest grade, by the National Assessment and Accreditation Council (NAAC). Amrita has been selected by the Indian Government as an Institution of Eminence (IoE) to be developed into a world-class institution that would put India on the global education map. Amrita's vision of intellectual social responsibility is the foundation of its research activities. The institution strives to bring about positive change in society through impactful, socially conscious, human-centred research. With seven campuses at Amaravati, Amritapuri, Bengaluru, Chennai, Coimbatore, Kochi, and Mysuru and a new campus at NCR Delhi (Faridabad) and spread over 1200+ acres with 100 lacs square feet of built-up space, Amrita is one of India's top-ranked private university.

About Amrita School of Engineering Chennai

Amrita School of Engineering (ASE), Chennai, is located at about 40 KMs away from Chennai and 90 KMs away from Tirupati on the State Highway SH50A in a village named Vengal has become the place where the future of the Country is being moulded. ASE is aesthetically spread out on a

sprawling 13.55 acres of land with a built-up area of 24,956 sqm, where the dreams of countless engineering aspirants find realisation. ASE, located in close proximity to the Country's Major Manufacturing and Automobile Hubs (popularly known as The Detroit of Asia), embodies an intellectual ambience to the aspiring young minds who wants to opt for Engineering as their career specialization



About Department of Mechanical Engineering

The department of Mechanical Engineering, established in 2019, offers two undergraduate programmes, B.Tech. in Mechanical Engineering and B.Tech. in Automation & Robotics Engineering. The department also offers PhD programs in all the specialisations of mechanical engineering. The department fosters the students' flair through a well-designed curriculum that caters to the changing needs of the industries and other stakeholders.

Department's strong footprint is attributed to the team of qualified, motivated and experienced faculty members with 100% PhD (either completed or pursuing). Of which 65% have their PhD from reputed Institutes in India like IISc, IITs, NITs and IIITDM & 30% have International exposure.

The department fosters the flair of the students through a well-designed unique curriculum that caters to the changing needs of the industries and other stakeholders. The department has state-of-the-art research facilities and well-equipped laboratories to support all the academic activities. The department lays significant emphasis on Industry - Institute Interaction activities and has robust Industry-Academia Collaboration Programs.

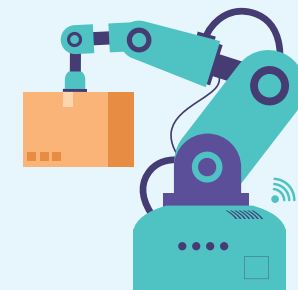
About the Conference, AMMA-2023

In the global competitive customer-centric scenario, the field of Mechanical Engineering is advancing at a rapid pace, and new technologies are emerging in the areas of Materials, Manufacturing, and Automation. The challenges faced by today's engineers force them to keep abreast of the emerging trends through continuous research and development.

The International Conference on Advancements in Materials, Manufacturing and Automation (AMMA-2023) is aimed to bring researchers, academicians, professional engineers, and industry leaders from all over the world on a common platform to exchange cutting-edge ideas relating to recent developments and advancements in the evergreen fields of materials, manufacturing and automation. The conference will include keynote addresses by eminent people from industry and academia.

AMMA
2023 INTERNATIONAL
CONFERENCE

Advancements in Materials, Manufacturing & Automation



Conference Themes

The conference topics include, but not limited to the following broad areas:

- Material Science and Engineering
- Materials Manufacturing and Processing
- Materials properties measuring methods and application
- Friction, Wear, and Lubrication
- Nanotechnology & Smart materials
- Thermal and Fluid engineering
- Additive Manufacturing
- Automated & Digital Manufacturing Systems
- Smart Manufacturing
- Automation Technology
- Industrial Automation, IoT & Cyber-Security
- Robotics & Intelligent Systems
- Kinematics and Dynamics
- Advanced Control Techniques
- Machine Vision & Image Processing
- Sensors & Biomedical Systems
- Emerging Materials & AI/ML Applications in Materials Processing & Design
- Optimization Technique for Industrial Applications

Publication

1. Papers presented in the conference will be published in any one of the following journals/ proceedings:

- (i) Key Engineering Materials (SCOPUS Indexed)
- (ii) Material Science Forum (SCOPUS Indexed)
- (iii) Solid State Phenomena (SCOPUS Indexed)
- (iv) Defect and Diffusion Forum (SCOPUS Indexed)
- (v) Advances in Science and Technology
- (vi) Applied Mechanics and Materials

2. The final decision on the publication and the choice of journals/ proceedings will be made by the editorial office of the publication partner based on the quality requirement and scope of the journal/ proceedings.

Awards and Honours

Best paper awards will be given for different tracks of the registered and presented papers.

Submission of Abstract

The prospective authors are requested to submit a soft copy of an abstract carrying sufficient information for fair assessment through the easy chair link: <https://easychair.org/conferences/?conf=amma2023>

Important Dates	
28th February 2023	Submission of Abstract
05th March 2023	Notification of acceptance of abstract
15th March 2023	Full paper submission
25th March 2023	Notification of acceptance of paper
5th March 2023	Author Registration and payment of registration fees
7-8 April 2023	Conference

Conference Registration Fees	
Indian Delegates From Academic Institutions, R&D Labs, and Industry	INR 1500
Foreign Delegates From Academic Institutions, R&D Labs, and Industry	USD 50

Note: Article publication charges (APC) of the presented papers for publication in SCOPUS/ Non-Scopus indexed Journals/ Proceedings will have to be paid additionally. The charges will depend on the journal and the publisher's policy.