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Department of Mechanical Engineering, UCE, OU

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ADDRESS FOR CORRESPONDENCE

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2nd National Conference
on

**ADVANCES IN MECHANICAL
ENGINEERING & NANO TECHNOLOGY
(AMENT-2024)**

Rescheduled dates 23-24th August 2024



Organised by
**DEPARTMENT OF MECHANICAL
ENGINEERING**

**University College of Engineering (Autonomous)
Osmania University, Hyderabad, Telangana
(University with Potential for Excellence &
Reaccredited with "A+" Grade by NAAC)**

ABOUT THE ORGANISING DEPARTMENT

(85 years of Glorious service to the Nation)

The Department of Mechanical Engineering was established in the year 1939, since then it has grown significantly by offering U.G, P.G and Doctoral degree courses. It has celebrated Platinum Jubilee year in 2014. As a part of centenary celebrations of the Osmania University during 2017-18, various workshops/ Seminars/ Conferences were conducted. It is equipped with state of the art equipment, infrastructure and research facilities like CPTIP, CET and CERAC. The Department receives research and modernization grants from UGC, MHRD and AICTE. Till date more than 140 Ph.Ds were awarded by the Department. It also encourages students to participate in various competitions like SAE BAJA & GO-KART etc.

UNIVERSITY COLLEGE OF ENGINEERING (AUTONOMOUS)

The University College of Engineering (UCE) was established in the year 1929 and has the distinction of being the oldest and the biggest among the Engineering Colleges in the country. The College was declared autonomous by the University in 1994 and by UGC in 2010. The University's accreditation by NAAC with A+ grade and Category-I graded autonomy by UGC are applicable to the College. The institution has received ISO 9001:2015, 14001: 2015 and 50001: 2018 certification in 2023.

Over the years, the Engineering college has maintained a reputation of imparting excellence in Engineering education along with co-curricular and extra curriculum activities. It is part of elite group of institutes selected for funding from World Bank under TEQIP-I, TEQIP-II and TEQIP-III schemes. The college has established three centers of excellences namely, Centre Product Design, Development and Additive Manufacturing (CPDDAM), Cyber Security and Cyber Law,

OSMANIA UNIVERSITY

Established in 1918, Osmania University is the seventh oldest university in the country. It is one of the premier institutions of higher learning epitomizing the national agenda for higher education. The University has been reaccredited with "A+" Grade by NAAC and is recognised by UGC, MHRD as a University with Potential for Excellence (UPE) in recognition of its overall performance and contributions to the advancement of technical knowledge. Also, Osmania University has been selected for funding under the RUSA 2.0 programme of the MHRD, Government of India.

AIM AND SCOPE OF THE CONFERENCE

The aim of the conference is to provide a platform for the exchange of experience among researchers in research and practical advancements in various fields of Mechanical Engineering including Nano technology.

The Scope of the conference includes all theoretical, practical, technical advances in the following topics (but not limited to):

- Characterization and manufacturing of Micro and Nanomaterials
- Applications of nanotechnology
- Advanced Welding and Forming Processes
- Additive Manufacturing
- Metallic and nonmetallic composites
- Functional and Smart Materials
- Tribology and Surface Engineering
- Non-traditional Machining Processes
- Manufacturing process modeling, simulation and optimization
- Lean and Flexible manufacturing
- Production, Operations and Supply Chain Management
- Near Net shaping Processes
- Vibration Analysis and Condition Monitoring
- Fatigue and Fracture Mechanics
- Biomechanics
- Non-destructive Testing and Evaluation
- CAD/CAM/CIM/MEMS/ROBOTICS
- Manufacturing Automation, FMS
- Computational Techniques & CFD Thermal Systems,
- Heat Transfer, Advanced IC Engine Technologies and Turbomachines
- Energy Conservation, Renewable Energy Techniques,
- Biofuels, Fuel Cells
- Automobiles and Automotive Engineering.
- Refrigeration & Air conditioning

CALL FOR ABSTRACTS AND FULL PAPERS

Abstracts containing the title, name of the author (s), their affiliations and brief description of their research work in MS word format (Text Font: Times New Roman, size 12, Full Justified, 1.15 line spacing), are to be mailed to ament2024@gmail.com on or before 31st March, 2024. Selected papers will be published in a UGC listed/Scopus indexed reputed Journal, however the cost of publication shall be borne by the authors.

IMPORTANT DATES

| | |
|--------------------------|-----------|
| Submission of Abstracts | 25-7-2024 |
| Acceptance of Abstracts | 27-7-2024 |
| Submission of Full Paper | 31-7-2024 |
| Acceptance of Full Paper | 05-8-2024 |

REGISTRATION FEE

| | |
|------------------------------|------------|
| Faculty Members | Rs. 2500/- |
| Research Scholars & Students | Rs. 1500/- |
| Industry / R&D Institutes | Rs. 4500/- |

Registration fee shall be paid through Online Mode to the Organising Secretary, AMENT-2024. The Bank details QR code are given below :

Name : Organising Secretary AMENT 2024
Account No. : 06041201000952
Branch : Osmania University (CT)
IFSC Code : UBIN0806048
"For further details refer www.uceou.edu"



VENUE OF CONFERENCE

Department of Mechanical Engineering,
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