



1st International Conference

on

Applied Mechanical Engineering Research (IC-AMER2019)

Sponsored by TEQIP-III

2nd - 4th May 2019

Mechanical Engineering Department
National Institute of Technology Warangal
(An Institute of National Importance)
Warangal-506004, Telangana, India



Organizing Secretaries

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About IC-AMER 2019

The conference focuses on the latest developments in the field of Mechanical Engineering. The conference also aims to provide an interactive platform to the academia, researchers and the industry. Participations from different industries, universities and academic institutions from all over the country and abroad are anticipated. The organizing committee hereby invites academicians/scientists /technologists engaged in basic as well as applied research from the Universities, Research Institutions and Industries to participate. The scientific sessions will comprise plenary talks, invited talks, technical talks and contributed papers (both oral and posters).

Themes

IC-AMER2019 welcomes research papers on the following topics but not limited to:

Design Engineering: FEA, Design Optimization, Vibrations, Condition Monitoring, Tribology, Structural Health Monitoring, Rotor dynamics, Robotics etc.

Thermal Engineering: Heat and Mass transfer, Fluid Mechanics, Refrigeration and Air conditioning, Renewable and Non-Renewable Sources of Energy, Computation Fluid Dynamics, Energy Storage, Aerodynamics, Compressible/Incompressible flows, Green building, Waste management, IC engines/ combustion, Bio-Heat Transfer, Phase Change Materials, Turbomachines, Automobile, Energy etc.

Manufacturing and Industrial Engineering: Manufacturing processes, Machining, CAD/CAM, Additive Manufacturing, Modelling and Simulation of Manufacturing Processes, Micro and Nano Manufacturing, Optimization of Manufacturing Processes, Logistics and Supply Chain Management, Operations Management etc.

Materials: Composite materials, Material characterization, Fracture, Fatigue studies, Advanced Materials etc.

Call for papers

Authors should submit an original and unpublished papers not exceeding 5 pages including figures and tables. The paper template can be downloaded from downloads page.

Submission of Full Papers - **25th January 2019**

Peer Review Intimation to Authors - **25th February 2019**

Submission of revised paper - **10th March 2019**

Registration deadline - **10th April 2019**

All the peer-reviewed papers will be considered for publication in SCI/Scopus indexed/ reputed journals/ISBN Proceedings based on their technical quality and novelty with prior intimation to the authors.

Registration Fee

Category	Indian (In Rupees)	Foreign (In USD)
UG and PG Students	2000	50
Full-time Research Scholars	3000	100
Faculty/Academia	5000	200
Delegates From Industry persons	8000	300

About the Mechanical Engineering Department

- The Department of Mechanical Engineering offers **One UG program (140 students)**, **Seven PG programs (100 students)**, and a **Ph.D. program (150 scholars)**.
- There are **40** qualified and experienced faculty in the department. The department has a liaison with reputed industries and R&D organizations.
- There are about **20 labs** including energy systems, heat transfer, precision metrology, CNC and mechatronics, tribology, computational research labs.
- There are **two Centers of Excellence**. One on Sustainable Energy and another on Advanced Manufacturing.
- The research areas of the faculty include almost all the areas of mechanical engineering. The department is organized into three sections namely, design, thermal and production engineering.
- The department produces a large number of publications, involved in about **50 funded projects** and offers solutions to the industry regularly.

About the NIT Warangal

- The National Institute of Technology (NIT), Warangal is the first in the chain of 31 NITs, **Institutes of National Importance** established in 1959 by Act of Parliament. It is consistently ranked as one of the top engineering colleges in the country.
- The Institute offers **08 B.Tech.** programmes in engineering, **25 M.Tech.** programmes and **07 other postgraduate programmes** (M.Sc., MCA and MBA) and research programmes through 13 academic departments. NIT Warangal has about 100 well-equipped laboratories and well established supporting infrastructure. The institute is well-known for its Research and Development, Industrial Consultancy, Continuing Education and Training programmes for teachers and industrial personnel.
- The institute houses about 600 students including 600 foreign students from as many as 40 countries. It has strong academic and research collaborations with several leading foreign universities and programs like HERITAGE, EUPHRATES, HORIZON 2020, etc.

Patron

Prof. N V Ramana Rao, Director, NIT Warangal

Chairman

Prof. P Bnagaru Babu, Head, MED

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Dr. Hari Kumar Voruganti
Dr. K Kiran Kumar
Dr. P Vamsi Krishna

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Dr. M Vijaya Kumar

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Faculty members of Department of
Mechanical Engineering, NIT Warangal.

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Dr. Xiaoliang Jin, The Univ. of British Columbia, Canada.
Dr. Rukmini Srikant Revuru, Univ. of Northern Iowa, USA.
Mr. D Uma Maheshwar, GE Aviation India.

Plenary Talks

Prof P.N.Rao, Department of Technology,
University of Northern Iowa, USA.

Dr. G. Padmanabham, Director, ARCI,
Hyderabad, India.

P. S. Lee, Department of Mechanical
engineering, national university of
Singapore, Singapore.