



# *1<sup>st</sup> International Conference*



*On*

## ***Applied Mechanical Engineering Research (IC-AMER2019) 2<sup>nd</sup> - 4<sup>th</sup> May 2019***

Sponsored by

**TEQIP-III**

Published by



*On the eve of Diamond Jubilee Celebrations of NIT (REC), Warangal*  
**Mechanical Engineering Department**  
**National Institute of Technology Warangal**  
(An Institute of National Importance)  
Warangal-506004, Telangana, India.



### Organizing Secretaries

**Dr. Hari Kumar Voruganti**

**Dr. K Kiran Kumar**

**Dr. P Vamsi Krishna**

**Conference website:** <http://cms.nitw.ac.in/conference/icamer2019>

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**Ph no.:** +91-8985929103, +91-9494153851, +91-8332969371.

## About the conference

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).

Note: Participants from outside India will be allowed to present their papers through online.

## 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 - **25<sup>th</sup> January 2019**

Peer Review Intimation to Authors - **25<sup>th</sup> February 2019**

Submission of revised paper - **10<sup>th</sup> March 2019**

Registration deadline - **10th April 2019**

**All the peer-reviewed papers will be published in the form of a Scopus-indexed book series by the Springer. Further, efforts are being made to publish the selected papers - in SCI/Scopus indexed/ reputed journals.**

## 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 Bangaru Babu, Head, MED

### Organising Secretaries

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

### Joint Secretaries

Dr. Karthik Balasubramanian  
Dr. Syed Ismail  
Dr. M Vijaya Kumar

### Organizing Committee:

Faculty members of Department of  
Mechanical Engineering, NIT Warangal.

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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.



Prof. P. S. Lee,  
Department of Mechanical  
Engineering, National  
University of Singapore,  
Singapore.

### Contact details

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