

### About the College:

Madanapalle Institute of Technology and Science (MITS) is an autonomous institution that was established in 1998 in the picturesque and pleasant environs of Madanapalle and is ideally located on a sprawling 30 acre campus. It has a resort like atmosphere, which is refreshing and exhilarating at the same time. The UG courses such as ME, CSE, EEE and ECE are accredited by NBA. The college is awarded ISO 9001:2008 certification for the quality policies it is implementing. The campus comprises of aesthetically designed buildings that are networked by Wi-Fi technology. This institution is established with the modern workshops and labs, computer and internet facilities, seminar halls, well equipped library and sports facilities that provide an excellent learning environment for the students. MITS Offers UG, PG & Ph.D courses in Mechanical, Civil, Electrical & Electronics, Electronics & Communications, Computer Science Engineering, MBA and MCA.

MITS, originated under the auspices of Ratakonda Ranga Reddy Educational Academy under the proactive leadership of **Dr. N. Vijaya Bhaskar Choudary, M.Com., Ph.D.,** Secretary & Correspondent and **Sri N. Krishna Kumar, M.S. (USA),** Chairman. MITS enjoys constant support and patronage of NRIs with distinguished academic traditions and vast experience in Engineering and Technology. The management spares no effort to develop the institution as one of the best centers of academic excellence. MITS, selected for TEQIP-II as one among the Top 25 private Engineering Institutions in the country. MITS has been selected as the best engineering college in Andhra Pradesh in the ISTE AP State Award for the Year 2018.

### About the Department:

The Department of Mechanical Engineering was established at the inception of the college. The department offers UG, PG and Ph.D programmes. PG programmes are offered with specialization in Advanced Manufacturing Systems. UG course in the department has been accredited by NBA and NAAC. The course offers a deep insight into the discipline and empowers promising engineers with required skills for a successful career in mechanical engineering. The department is recognized as research and development centre by JNTUA, Anantapuramu to offer doctoral programmes. The department has excellent infrastructure and is well equipped with modern laboratories. The department has highly qualified, experienced, dedicated and motivated faculty with industry and research background.

### Location of the College:

MITS is located at Angallu, which is 10 kms away from Madanapalle and it is 120 kms from Tirupathi, 125 kms from Bangalore, 250 kms from Chennai and 130 kms from Vellore.

### Chief Patron

**Dr. N. Vijaya Bhaskar Choudary,** Secretary & Correspondent

### Patron

**Sri. N. Krishna Kumar,** Chairman

### Chief Coordinator

**Dr. C. Yuvaraj,** Principal

### Coordinator

**Dr. Suryanarayana Raju Pakalapati,** Professor & Head

### Conveners

**Dr. Prasanna Kumar Duvvi,** Professor

**Dr. Kirana Kumara,** Sr. Assistant Professor

### Organizing Committee:

- |                           |                             |
|---------------------------|-----------------------------|
| 1 Dr. P. B. N. Prasad     | 2 Dr. G. Hemanth Kumar      |
| 3 Dr. Senthil Kumar J S   | 4 Dr. G. Harinath Gowd      |
| 5 Dr. Thamizhmanii        | 6 Dr. Uday Krishna          |
| 7 Dr. I. Arun             | 8 Dr. G. Sadasiva Prasad    |
| 9 Dr. Manvendra Tiwari    | 10 Dr. Anoop Kumar Sahu     |
| 11 Dr. A Balaraju         | 12 Dr. S Baskaran           |
| 13 Mr. V. Vamsidhar       | 14 Dr. D. Yuvarajan         |
| 15 Dr. Bhisham Kumar D    | 16 Dr. G. Mallikarjunachari |
| 17 Dr. R. Prithivi Rajan  | 18 Dr. K. V. Nagesha        |
| 19 Dr. P. Sivaiah         | 20 Dr. B. Chakradhar        |
| 21 Dr. P. Naresh          | 22 Dr. Sudhir Raj           |
| 23 Dr. Arun Nellaiappan T | 24 Dr. Muralidhar Singh. M  |
| 25 Dr. Vinod Kumar Singh  | 26 Dr. Vishwanatha H M      |
| 27 Dr. Aniket Kumar Dutt  | 28 Dr. Saif Akram           |
| 29 Dr. V. Shanker Nath    | 30 Dr. N. Shiva Kumar       |
| 31 Dr. Gurubasavaraju TM  | 32 Dr. Chinge Sampath K     |
| 33 Dr. Dubba Santhosh K   | 34 Dr. Manas Kumar Pal      |
| 35 Dr. Gautam Choubey     | 36 Dr. Kulmani Mehar        |
| 37 Dr. Srijan Sengupta    | 38 Mr. Manoj Kumar R        |
| 39 Mr. Pawan Kumar        | 40 Mr. Anshuman Das         |
| 41 Mr. P. Meghashyam      | 42 Mr. A. Bhargav           |
| 42 Mr. U. Nagaraju        | 43 Mr. S. Krishna Chaitanya |
| 43 Ms. Sharmila           | 44 Mr. B. Siva Kumar        |

### Student Coordinator:

B.Rohith  
T. Madhuvan Reddy

### Comitte coordinators:

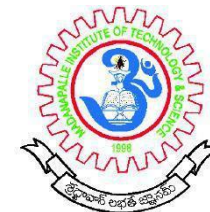
N.Amanllu  
C.Manoj  
K Narasimhulu

# 14<sup>th</sup> Mechonance 2019

*Can you match the frequency*

## NATIONAL LEVEL STUDENTS' TECHNICAL SYMPOSIUM

17<sup>th</sup> April 2019



Organized by  
Department of Mechanical Engineering



Department of Mechanical Engineering  
Madanapalle Institute of Technology & Science

UGC- Autonomous

Approved by AICTE, New Delhi and Affiliated to JNTUA,  
Accredited by NBA, An ISO – 9001:2008 Certified Institution  
Post box No. 14, Angallu, Madanapalle- 517325, Chittoor Dt., A.P.  
Ph.: No: +91-8571-280255, 280706, Fax: 08571-280433  
[www.mits.ac.in](http://www.mits.ac.in)

## MAJOR TOPICS FOR PAPER PRESENTATION

### Engineering Design & Thermal Sciences

- ✓ Alternative Fuels
- ✓ Computational Fluid Dynamics
- ✓ Energy Conversion
- ✓ FEM
- ✓ IC Engines / Heat Transfer
- ✓ Non-Conventional Energy Sources
- ✓ Recent Trends in Design
- ✓ Recent Trends in R&AC Systems
- ✓ Tribology
- ✓ Vibrations

### Manufacturing Process & Industrial Engineering

- ✓ Advanced Forming Techniques
- ✓ Automobile Techniques
- ✓ CIM / FMS
- ✓ Composite Materials
- ✓ Jigs Fixtures & Tool Design
- ✓ Mechatronics and Robotics
- ✓ Optimization Techniques
- ✓ Quality Control and Reliability
- ✓ Rapid Prototyping and Additive Technologies
- ✓ Recent Trends in Welding and Manufacturing
- ✓ Six Sigma Concepts
- ✓ Supply Chain Management

## TECHNICAL WORKSHOPS

### IC Engine:

Introduction, Assembly and disassembly of Automobile engine

### Surface Engineering & EDM:

Introduction, Principles and Hands-On Training on Surface Coating Using EDM Machine

### MATLAB for Mechanical Engineers:

Basic Commands, Solving Equations, Plotting of Data, Programs to solve mechanical engine problems

### CNC Machines:

Introduction, Types of machines, programming and parts production

## PROJECT EXPO

## TECHNICAL QUIZ

## Information to participants

- Maximum of two authors per paper.
- An author can submit a maximum of two papers.
- Soft copy of the paper should be emailed to **mechonance19@mits.ac.in**.
- Format of the paper as per template in the website (**www.mits.ac.in/mechonance19.html**)
- LCD projector will be provided.
- **Registration fee for paper presentation is ₹200/- per paper**
- **Technical workshop is charged at ₹200/- per participant**
- **Technical quiz is charged at ₹150/- per participant.**
- **Technical quiz is charged at ₹250/- per team (3 persons)**
- **Project expo is charged at ₹200/- per model (Mini-Project)**
- **Project expo is charged at ₹400/- per model (Major-Project)**
- **One-way fare will be provided for project expo participants.**
- **Registration fee can be paid on the day of event.**

## Objectives:

- To spread awareness on latest technologies among students in their chosen areas of specialization.
- To provide a platform for fruitful interaction and exchange of ideas among student participants.
- To expose students to the techniques and management practices to achieve the optimum utilization of available resources.
- To make the students improve their presentation skills and art of writing technical papers.

## PRIZES

- ✓ **Attractive Cash Prizes will be given for the best three papers in each stream**
- ✓ **Fabulous prizes for project expo and quiz**
- ✓ **Participation certificates will be given to all the participants**

## Communication:

**Dr. Kirana Kumara** +91-9100600662

**Dr. Prasanna Kumar** +91-9100907328

Email : **mechonance19@mits.ac.in**

Website : **www.mechonance.com**

# 14<sup>th</sup> Mechonance 2019

*Can you match the frequency*

## Registration Form

1. Name(s) of the participating students:

- 1.
- 2.

2. Name & Address of the Institution:

3. Address for Correspondence:

4. Events: (Tick the event(s) for participation)

Paper Presentation :

Project Expo :

Workshop :

Technical Quiz :

Phone No :

E-mail :

Place :

Date :

Signature of the  
Head of the Department/Institution with seal

## IMPORTANT DATES:

Submission of full length paper: **8<sup>th</sup> April 2019**  
Intimation of the selected papers: **10<sup>th</sup> April 2019**  
Last date for Project Expo registration: **15<sup>th</sup> April 2019**

**Registration form is also available in website.**  
**Registration fee can be paid on the day of event**

**Department of Mechanical Engineering**  
**Madanapalle Institute of Technology & Science**

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