

**VOLUME 2**  
**JAN 2019- JUNE 2019**

# **ZENITH**

## **2018-19**



**MARRI LAXMAN REDDY**  
**INSTITUTE OF TECHNOLOGY & MANAGEMENT**



**Sri Marri Laxman Reddy, the founder Chairman of Marri Educational Group of Institutions has been in the field of education from the last 22 years with the aim of spreading quality education among children at the school & college level. Marri Laxman Reddy Institute of Technology & Management is the culmination of his dreams and was established during year 2009 by Marri Educational Society.**

**Mr. M. Rajasekhar Reddy, a person with remarkable abilities and great acumen and a dynamic leader. He is known to be the dynamic mentor of MLR Institute of Technology who is always on the sprit to take the institute to newer levels in every aspect of an 'Ideal Institution' and strives hard to make every dream a reality. Inspired by his father, Mr. M. Laxman Reddy has a credit of establishing Institute of Aeronautical Engineering adding a new flavour to St. Martin's group of Institutions and Vidyanjali Grammer School..**



# VISION AND MISSION OF THE DEPARTMENT

The Mechanical Engineering Department strives for immense success in the field of education, research and development by nurturing the budding minds of young engineers inventing sets of new designs and new products which may be envisaged as the modalities to bring about a green future for humanity



Equipping the students with manifold technical knowledge to make them efficient and independent thinkers and designers in national and international arena. Encouraging students and faculties to be creative and to develop analytical abilities and efficiency in applying theories into practice, to develop and to disseminate new knowledge. Pursuing collaborative work in research and development organizations, industrial enterprises, research and academic institutions of national and international standards, to introduce new knowledge and methods in engineering teaching and research in order to orient young minds towards industrial development

## Program Educational Objectives:

PEO1: Graduates shall emerge as successful Mechanical engineer's as their career progress

PEO2: Graduates apply fundamentals of engineering, in practical applications and engage in active research.

PEO3: Mechanical Graduates shall have the ability to design products with interdisciplinary skills.

PEO4: Graduates will serve the society with their professional skills

## Programme Specific Outcomes:

PSO1: Students acquire necessary technical skills in mechanical engineering that make them employable graduate.

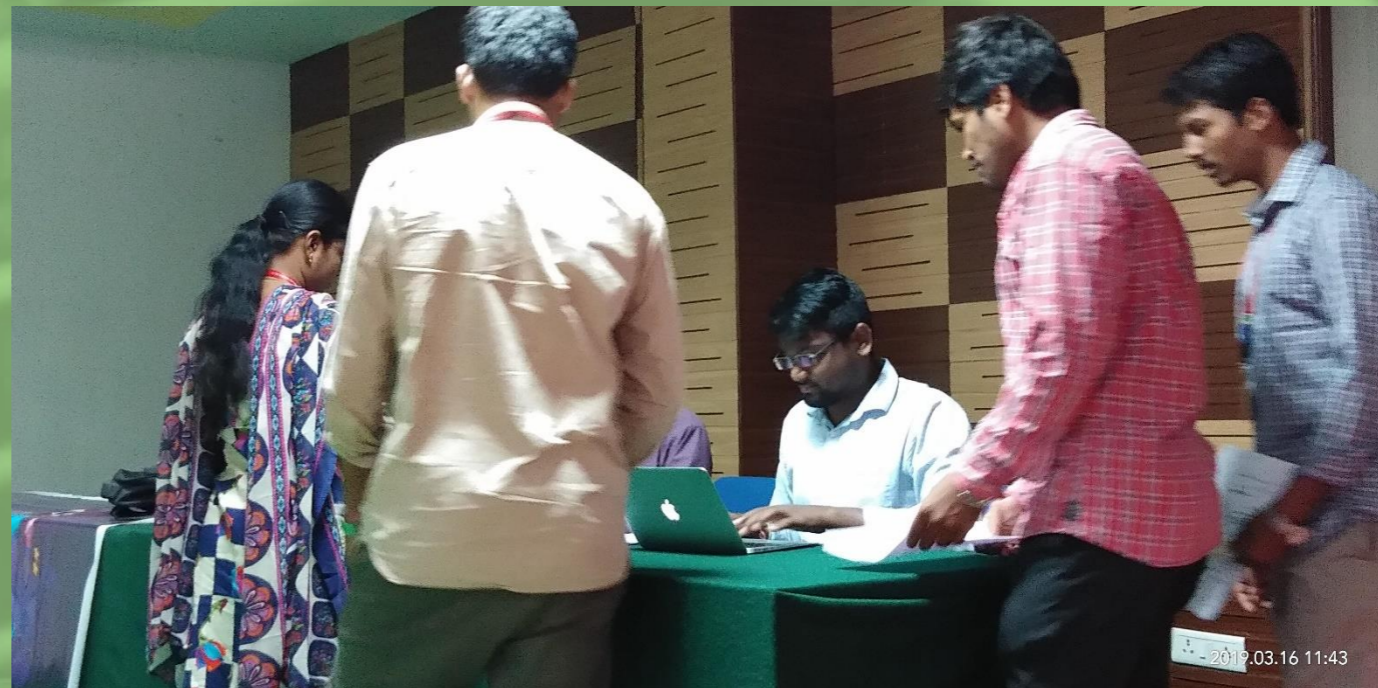
PSO2: An ability to impart technological inputs towards development of society by becoming an entrepreneur



# INDUSTRY INTERACTION- TATA MOTORS



**TATA MOTORS**

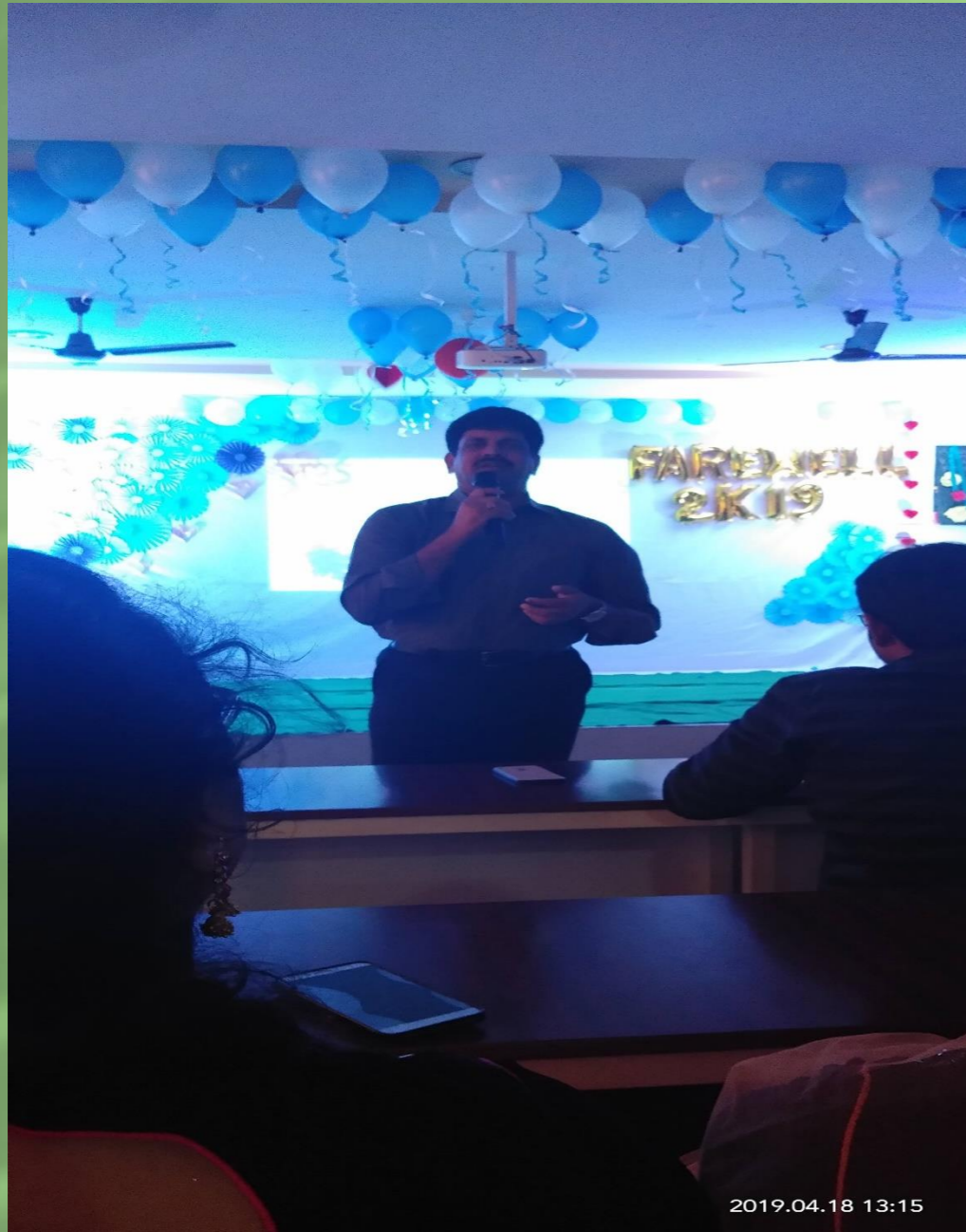




**“Industry-Institute-Interaction” provides a platform for both the students as well as faculty members to be aware of industry expectations of skill sets required for students. This enables students to be aware of the lacunae in their skills and provides an opportunity to upgrade them**

# BIDDING FARWELL TO SENOIRS- MEMORIES





**Saying goodbye is important and hard under normal conditions, but our current context makes it even more important that we intentionally say goodbye and provide students the opportunity for celebration, closure, grieving, meaning making, and connection.**





# ROLL OF HONOR



157Y1A0302 - VINEETH ADHI SHANKAR

# **FACULTY PAPER PUBLICATIONS**

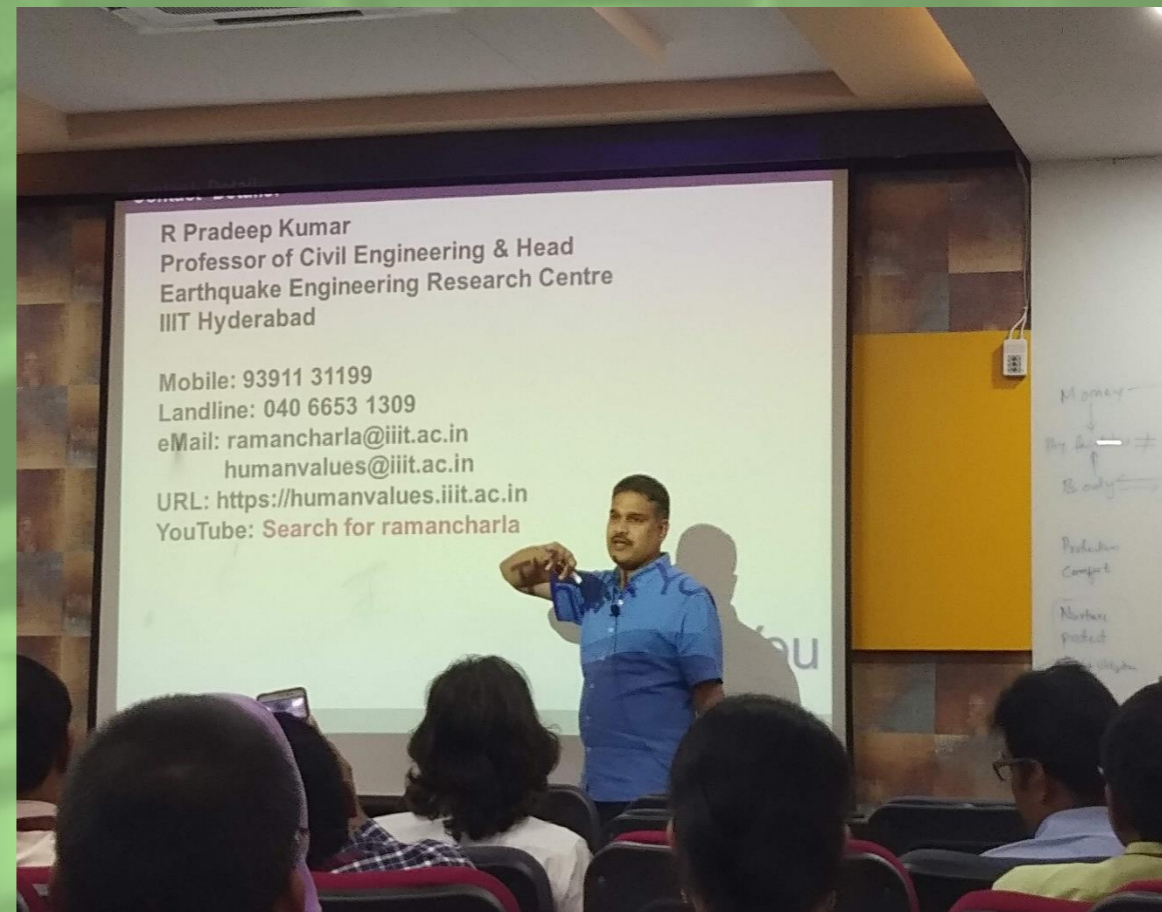


<b>P. Nageswara Rao</b>	<b>Microstructure Characterization of Superalloy 718 during Dissimilar Rotary Friction Welding</b>	<b>Materials Science Forum</b>	<b>1662-9752</b>	<b>SCOPUS</b>	<b>May 2019</b>
<b>D. Venkateswarlu P. Nageswara Rao</b>	<b>Characterization of Microstructure and Mechanical Properties of AA2219-O and T6 Friction Stir Welds.</b>	<b>Materials Science Forum</b>	<b>1662-9752</b>	<b>SCOPUS</b>	<b>May 2019</b>
<b>D. Venkateswarlu P. Nageswara Rao</b>	<b>Optimization of Process Parameters Using Surface Response Methodology for Laser Welding of Titanium Alloy</b>	<b>Materials Science Forum</b>	<b>1662-9752</b>	<b>SCOPUS</b>	<b>May 2019</b>
<b>P. Nageswara Rao</b>	<b>Combustion Characteristics of Single Cylinder Diesel Engine Fueled with Blends of Thumba Biodiesel as an Alternative Fuel.</b>	<b>Materials Science Forum</b>	<b>1662-9752</b>	<b>SCOPUS</b>	<b>February 2019</b>
<b>P. Nageswara Rao</b>	<b>Numerical Analysis of Constrained Groove Pressing and Mechanical Behaviour of Processed 316L Stainless Steel</b>	<b>Materials Science Forum</b>	<b>1662-9752</b>	<b>SCOPUS</b>	<b>May 2019</b>
<b>P. Nageswara Rao</b>	<b>Effect of Process Parameters and Heat Input on Weld Bead Geometry of Laser Welded Titanium Ti-6Al-4V Alloy</b>	<b>Materials Science Forum</b>	<b>1662-9752</b>	<b>SCOPUS</b>	<b>May 2019</b>

<b>P. Nageswara Rao</b>	<b>The Influence of Gas Tungsten Arc Welding Parameters on Mechanical and Microstructure Properties of the TC4 Titanium Alloy</b>	<b>Materials Science Forum</b>	<b>1662-9752</b>	<b>SCOPUS</b>	<b>May 2019</b>
<b>D. Venkateswarlu</b>	<b>Anodic Polarization Behavior of Cold-Worked Austenitic Stainless Steel:A Newer Approach</b>	<b>Materials Science Forum</b>	<b>1662-9752</b>	<b>SCOPUS</b>	<b>February 2019</b>
<b>D. Venkateswarlu</b>	<b>X-Ray Diffraction and Microstructure Analysis of En47 Spring Steel at Various Soaking Period of Time</b>	<b>Materials Science Forum</b>	<b>1662-9752</b>	<b>SCOPUS</b>	<b>February 2019</b>
<b>D. Venkateswarlu</b>	<b>Effect of Soaking Time on Evolution of Microstructure and Hardness during Annealing of EN-47 Spring Steel</b>	<b>Materials Science Forum</b>	<b>1662-9752</b>	<b>SCOPUS</b>	<b>February 2019</b>
<b>D. Venkateswarlu</b>	<b>Microstructure Characterization in Dissimilar TIG Welds of Inconel Alloy 718 and High Strength Tensile Steel</b>	<b>Materials Science Forum</b>	<b>1662-9752</b>	<b>SCOPUS</b>	<b>May 2019</b>
<b>D. Venkateswarlu</b>	<b>Parameter Optimization for Laser Welding of High Strength Dissimilar Materials</b>	<b>Materials Science Forum</b>	<b>1662-9752</b>	<b>SCOPUS</b>	<b>May 2019</b>
<b>D. Venkateswarlu</b>	<b>Experimental Analysis of SA213 Tube to SA387 Tube Plate Welding By Using Close Fit Technique in Absence of Supporting Plate</b>	<b>Materials Science Forum</b>	<b>1662-9752</b>	<b>SCOPUS</b>	<b>February 2019</b>

# WORKSHOPS AND SEMINARS

- SAE TIER II
- Design of Interface Joints, Integration Jigs, Assembly Tools & Fasteners Dr R Pradeep Kumar, Professor.





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