

Department of Mechanical Engineering

Editor's Message



With an exquisite intention to present in a specified period of time that occurred, we are coming forth with our Half-Yearly Mechanical Dept. newsletter (July – Dec. 2018) all to help our readers to entrain upon the trend of informative, educative and creative impulses. All events that count-B.Tech(Mech. Dept.) are voiced in a ambrosial assortment of multitudinous reverie that aspire to work as a binding vine of unceasing growth and development of the who's who of CMRCET.

I am quite optimistic that reading this newsletter would be beneficial to the readers as it would function as a verdurous landscape of academic, science and literary effluence that promotes teaching and research in the interests of transparency and expansion.

I am thankful to Mr. CH. Gopal Reddy, Secretary & Correspondent, CMRGI for his unstinting support; Major. Dr. V. A. Narayana, Principal, CMRCET for his valuable insights; Dr. P. Ravi Kumar, HoD, Mechanical Department, CMRCET, for his encouragement, the sub-editors for their enthused efforts to help "CMR CAPSULE" come alive.

Editor
A Sai Kumar
Asst. Professor,
Dept. of Mech. Engg.

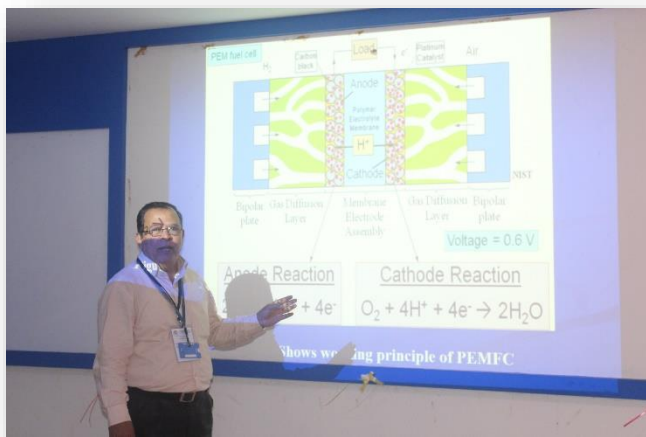
International Conference organized by the Department:

About Conference

First International Conference on ADVANCES IN MECHANICAL ENGINEERING (**ICAME-2018**), is a global event organized by Department of Mechanical Engineering, CMR College of Engineering & Technology, UGC Autonomous, Affiliated to JNTU Hyderabad Kandlakoya, Medchal Road, Hyderabad - 501 401, Telangana State, India. The primary goal of the conference is to promote research and developmental activities in Mechanical Engineering and to promote scientific information exchange between researchers, developers, engineers, students, and practitioners working in India and abroad.

| Name of The Resource Persons | College | Topic |
|------------------------------|--|---|
| Dr. Gangadharan Raju | Department of Mechanical and Aerospace Engineering, Indian Institute of Technology, Hyderabad | Experimental and Numerical Studies on The Failure of CFRP Laminate |
| Dr. S. Madhava Reddy | Professor of Mechanical Engineering Mahatma Gandhi Institute of Technology Gandipet, Hyderabad | MEMS and Shape Memory Alloys |
| Dr. B. Ratna Sunil | Associate Professor, Dept. of Mechanical Engineering, Bapatla Engineering College, Bapatla. | Promising Role of Friction Assisted Processes in The Contemporary Materials Processing Industry |







Faculty Publications:

- Mutyalu, K. B., V. C. Das, and K. Srinivasa Rao. "EXPERIMENTAL INVESTIGATION ON CHARACTERISTICS OF DI-CI ENGINE FUELED WITH SHEA OLEIN BIODIESEL."
- K Srinivasa Rao^{1*}, Ravi Kumar Panthangi², V. V. Kondaiah³, "Comparative vibration study of a diesel engine fueled with chicken fat biodiesel", *International Journal of Engineering & Technology*, sciencepubco, 7 (4) (2018), PP: 3195-3198.
- Nain, S.S., Luthra, S. and Sihag, P., (2018), "Performance evaluation of fuzzy-logic and bp-ann methods for WEDM of aeronautics super alloy", *MethodsX*, <https://doi.org/10.1016/j.mex.2018.04.006>. (Elsevier, Score, 0.478).
- Vand, A.V., Nain, S.S., Kisor, V., and Sihag, P., (2018) "Estimation of models for cumulative infiltration of soil using machine learning methods", *ISH Journal of Hydraulic Engineering*. DOI: 10.1080/09715010.2018.1531274 (Scopus SJR 0.158, Indexed Taylor and Francis).
- B. S. Varma Santosh Kulkarni, Somvir Singh Nain (2018), Influence of different electrodes material on MRR of EDM of die steel, *Global Journal of Engineering Science and Researches*.
- ParveenSihag and Somvir Singh Nain (2018), Modeling of infiltration rate using data mining models, *Global Journal of Engineering Science and Researches*.
- K. Srinivasa Rao, Ravi Kumar Panthangi & V. V. Kondaiah, Comparative vibration study of a diesel engine fueled with chicken fat biodiesel, *International Journal of Engineering & Technology*, 7 (4) (2018) 3195-3198, doi: 10.14419/ijet.v7i4.19421, ISSN: 2227-524X, (Scopus indexed).
- K. Srinivasa Rao, Ravi Kumar Panthangi & V. V. Kondaiah, An Experimental Study on the Characteristics of Di-Ci Engine with the Preheated Waste Cooking Oil Methyl Ester, *International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)* ISSN(P): 2249-6890; ISSN(E): 2249-8001 Vol. 8, Issue 6, Dec 2018, 47-58. (Scopus indexed)
- K Srihitha, K Polaiah and K Srinivasa Rao, Experimental Investigation of SI Engine Characteristics with Methanol Blended Petrol, *International Journal of Research in Advent Technology*, Vol.6, No.9, September 2018, pp. 2375-2378. (UGC approved Sl. No. 48768)
- V. V. Kondaiah, Ravi Kumar Panthangi and K. Srinivasa Rao, Microstructure and Mechanical Properties of Flyash Particle Reinforced Aluminum Composite, *International Journal of Mechanical Engineering and Technology*, 9(8), 2018, pp. 893–897. (Scopus indexed)

- K B Mutyalu, V C Das and K Srinivasa Rao, Experimental Investigation on Characteristics of DI-CI Engine Fueled with SheaOlein Biodiesel, International Journal of Mechanical Engineering and Technology, 9(7), 2018, pp. 1014–1021. (Scopus indexed)

Membership

- Lifetime Member of International Association of Engineers IAENG 224245
- Lifetime Member of International Association of Engineers IAENG 223855

Short Term Courses

- 8 week faculty development programme on Thermal Analysis and Modeling of Welding Process by NPTEL is completed successfully

Faculty Participation in Developmental Programmes:

| S. No. | Programme Name | Faculty Attended | Venue | Duration |
|--------|--|---|--|----------|
| 1 | Two day National Level “Workshop on Additive Manufacturing Technology” | Dr. K Srinivasa Rao Dr. V. V. Kondaiah | CMR Institute of Technology, Hyderabad | Two days |
| 2 | A Hands on Workshop on MOOC Development | Dr. K Srinivasa Rao Dr. V. V. Kondaiah | CMR College of Engineering & Technology | Two days |
| 3 | Current Trends in Precision Engineering | All the Faculty | CMR College of Engineering & Technology | One day |
| 4 | Processing and Characterization of Chicken Fat Biodiesel | Dr. K Srinivasa Rao | Sai Spurthi Institute of Technology, Sathupally, Khammam | One day |
| 5 | Autodesk Fusion 360 | A. Sai Kumar S. Lavanya | CMR College of engineering | 1 week |
| 6 | Machine learning and its applications and its Applications | | Vasavi college of Engineering between | 3 Days |

Faculty Relieved:

- Mrs. S. Lavanya, Assistant Professor relieved from Department of Mechanical Engineering on Maternity leave.

Students Participation in Workshops:

| S.No | Roll No | Name | Event /Topic | Name | Year | Venue |
|------|------------|---------------|--------------|------|----------|-----------|
| 1 | 17H51A0350 | SADAF MARYAM | BITS ATMOS | | DEC.2018 | BITS, HYD |
| 2 | 17H51A0035 | SREE LAKSHMAN | BITS ATMOS | | DEC.2018 | BITS, HYD |