



SRM VALLIAMMAI ENGINEERING COLLEGE

(An Autonomous Institution)

S.R.M NAGAR KATTANKULATHUR - 603 203

DEPARTMENT OF MECHANICAL ENGINEERING



NEWS LETTER Jan_March 2023

1. SAE ISS exposure lecture was conducted on 31st March 2023 for II and III year Mechanical Engineering students. The lecture was delivered by Dr.P.Baskara Sethupathi, Professor and Chairman –SAEISS MWC Division, SRM Institute of Science and Technology, Chennai. He explained the following activities: SUPRA SAEINDIA, BAJA SAEINDIA, AERCON, AEROTHON, Mobility Engineering, Knowledge Round Table Competition. He highlighted the various benefits of participating in the above events by becoming a member of SAE ISS.
2. A guest lecture was arranged on ‘Cryorolling of Aluminium Alloys’ on 23rd March 2023 for II and III year Mechanical Engineering students. The resource person Mr. K.Suresh Babu, Deputy General Manager, Madras Engineering Industries Pvt Ltd, Sriperumbudur – 602 105 delivered his lecture on the following topics: Introduction to Aluminum alloys, Aluminum Grades, Applications of Aluminum alloys in industries and Cryorolling of Aluminium alloys. A total of 120 students participated.
3. A National Safety Week programme was conducted from 6th March 2023 to 10th March 2023. As a part of this programme a Guest lecture was delivered by Mr M.Yuvaraj, Head Safety, Lucas TVS on 6th March 2023 on the real time industrial accidents and incidents. He also spoke about the safety aspects considered in industries. On 7th March 2023, the National Safety Council Awareness oath was administered by all the students. Safety Awareness Campaign was conducted on 8th March 2023 by the volunteers. They displayed the placards on various important safety aspects related to Helmet, Seat-Belt, LPG, Road, Food. Slogan and Poster Making Contest as per National Council Communication was conducted on 9th March 2023. Fire Safety Lecture was delivered on 10th March 2023 by M.Chandrababu, SRM Senior Safety Officer, Department of Fire Safety Engineering, SRM Institute of Science and Technology, Chennai. A practical fire safety Demo was also conducted.
4. An Industrial Visit was arranged on 22nd March 2023 for III year Section-2 Mechanical Engineering students to ‘Balaji Tribo Lubricants’ Pappanchathiram, Thiruvallur – 600123. The

main objective of this visit was to make students aware about how various activities related to heat transfer and energy management system activities are carried out in a company and which gives industrial exposure on heat transfer activities.

5. A Guest lecture was conducted on 'Industry Trend for Careers' on 20th February 2023. The resource person Mr.S.T.Suresh Babu, Head of Quality Center of Excellence,GSS America InfoTech Pvt Ltd., Hyderabad delivered the lecture on the following topics: Learning is the key for the development of career growth, Technology growth increases but adaptability is the need of the hour, Future technologies which CEOs wish to add and gave few tips to the freshers, who want to work in industries.
6. An online Guest lecture was conducted on 'Fuel Cell Bipolar Plate Component Manufacturing' on 18th February 2023. The resource person Mr.Prasad Venkatesan, Project Manager, Eisenhuth GmbH & Co. KG, Department of Fuel Cell, Osterode, Germany delivered the lecture on the following topics:Moving towards green energy, Fuel Cell, Types of fuel cell, Types of the bipolar plate, Bipolar plate production method, Quality control test and Requirement for seals in fuel cells.
7. A workshop was organized on 'Non-Destructive Testing' on 15thFebruary 2023 for III year Mechanical Engineering students. Mr. S. Sivaperumal, B.E., Managing Director, Shri Sai Non-Destructive Testing, Puducherry and the technical team with 4 trainers explained the working principle, application and importance of NDT in the Industry. After the presentation students had a hands-on training session too. The trainers demonstrated the inspection process and performed the following NDT methods on the specimens: Liquid Penetrant Test Magnetic Particle Test, Ultrasonic Test and Radiography Test.
8. A Motivational Talks on 'One step closer towards student's goal (Gate Exam Awareness Programme)' was conducted on 15th February 2023 Mechanical Engineering students. The resource person Mr. M.Vinothkumar Founder, Endurance Engineering Academy, Chennai, delivered the expert talk on the following topics: GATE opportunities in Mechanical Engineering Field, How to apply for government jobs through the GATE exam score, How to start Ph.D. and GATE stipend for Masters programme in IITs, NIT'S and IISc, Direct PhD in IISc, IITs, PSU's Job through Gate score, How to a get a good score in GATE examination and to prepare for GATE examination.
9. The 'Awareness Programme on Technical Education' for the Government Boys Higher Secondary School, Dasur, Mazhaiyur, was successfully conducted on 2ndFebruary 2023.

The keynote address was given by Dr. S. Thirugnanam, Professor and Head, of the Department of Mechanical Engineering. He spoke about the opportunities for engineers in the private and public sectors, as well as how important young engineers are to India as a whole. He also talked about SRM Valliammai Engineering College's facilities and various student accomplishments.

10. A guest lecture on 'Academic Project – An Overview' on 01st February 2023, for the benefit of III-year students. The resource person Mr. Sriram Thiyagarajan, Product Head, SECUDE Solutions Pvt Ltd, Chennai delivered the lecture on the following topics: Current scenario of Industry, Goal or Objective of project, Project phases, Outcome or benefits and Real time case studies.

Staff activities:

1. Mr.S.Sivalingam, Mr.G.Kumaresan, Mr.P.Ganesh and Mr.M.Thirumal Azhagan published a paper on 'Superplastic Formability and Cavitation Analysis of Aa7075 Matrix Composite Reinforced With B4c Particles Produced By Stir Casting, International journal of Metal Casting, American Foundry Society, <https://doi.org/10.1007/s40962-022-00932-4>.
2. Ms.N.Nithya and Dr.S.Thirugnanam, Professor presented a paper on 'Behavioural Study of Eco-Friendly MR Fluid During Machining of Metal Matrix Composites' in the International conference on Processing and Performance of Materials held at SSN College of Engineering, Kalavakkam, Chennai on 2nd March 2023.
3. Mr.P.Ramu, Mr.S.Rajesh, Mr.S.Sivalingam, published a paper titled 'Modal analysis of Al-Si-C alloy bush using ANSYS' Materials Today: Proceedings, <https://doi.org/10.1016/j.matpr.2023.03.413>, 2214-7853.
4. Mr.K.Venkatesan presented a paper on 'Fundamental study on influence of independent factors on Response variable using RSM and Taguchi Method' in the International conference on Processing and Performance of Materials held at SSN College of Engineering, Kalavakkam, Chennai on 2nd March 2023.
5. Mr.R.Srinivasan, Dr.S.Thirugnanam, Mr.I.Felix Sahayaraj Jenish presented a paper titled 'Transforming agricultural waste into sustainable composite materials: Mechanical properties of Tamarindus Fruit Fibre (TFF) reinforced PLA composites' in the International conference on Processing and Performance of Materials held at SSN College of Engineering, Kalavakkam, Chennai on 2nd March 2023.
6. Mr.S.Sivasankar filed a patent titled 'Clockwise double twisting copper sharp edge square prism rib with inline multiple elliptical holes'. Application Number: 202341024581.

7. Mr.R.Ashok filed a patent on 'Design and development of wheel based pipe inspection robot'. Application Number: 202341023058.
8. Mr.G.Rajesh published a paper titled 'Microstructure and mechanical properties of AZ91D/Si3N4 composites using squeeze casting method' Materials Today: Proceedings, <https://doi.org/10.1016/j.matpr.2023.04.470> 2214-7853.
9. Mr. A. S. Hari Vijay, Mr.S. Siva Sankar, published paper titled 'Hazard and Operability (HAZOP) Study on LNG Skid' International Journal of Modern Developments in Engineering and Science Volume 2, Issue 4, April 2023 <https://www.ijmdes.com> | ISSN (Online): 2583-3138.

Staff Incharge

HoD/Mech