

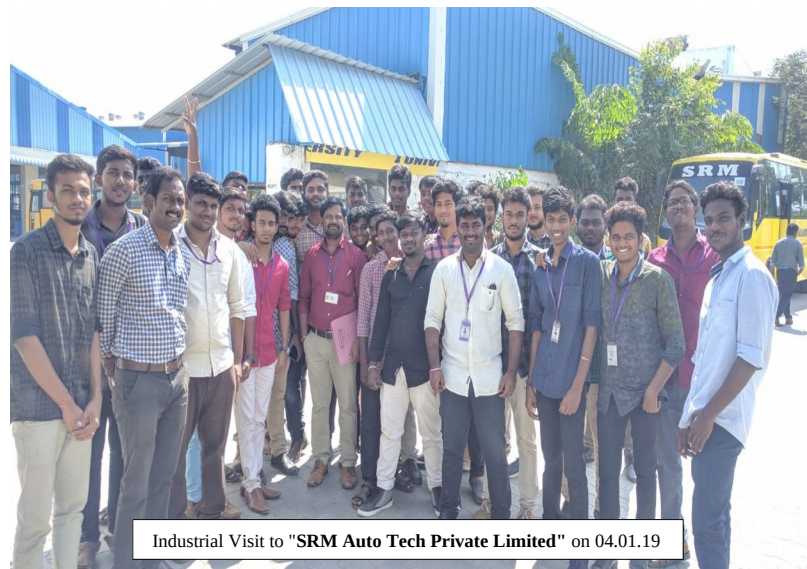


VALLIAMMAI ENGINEERING COLLEGE
SRM Nagar, Kattankulathur-603 203.
Department of Mechanical Engineering



Events Report Jan - March 2019

1. An Industrial Visit was arranged for III year Sec 3 students on 04.01.19 to "**SRM Auto Tech Private Limited**", Chennai. Students visited the following sections: Body Structure Cleaning ,Fabrication of Structure ,Structure Mounting on Chassis, Paint Booth ,Inner and Outer Paneling ,Roof Panels, Front Panel, Rear Panel, Passenger Door, Seats, Driver Seat, Chassis Inspection, Roof Leak Testing.



2. An Industrial Visit was arranged for II year Sec 3 students on 10.01.19 to "**Varicon Pumps & Systems Private Limited**", Ambattur. Mr.C.Govindhan, Chief Supervisor explained about various sections: chemical injection, fabrication of the pumps, valves and pipe lines, detection of leaks in the downstream pipeline.



3. A Guest Lecture on "**Gas Dynamics**" was organised for III Year students on 11.01.19. Dr. Kannan B.T. Research Assistant Professor, Aerospace Engineering - Aerodynamics, Department of Aerospace Engineering, Kattankulathur Campus, SRM Institute of Science and Technology delivered his lecture on the following topics: Basic concepts in Isentropic flows, Flow through ducts, Jet Propulsion and Space Propulsion.



4. "**National Seminar on Emerging Technologies in Mechanical Engineering**" [NSETME-19] in association with SAEINDIA VEC Collegiate club and Renewable energy club was conducted on 02.02.19. The number of participants for the seminar was 108. In session1, the expert speaker Mr. Ganesh Adiga, Deputy General Manager, Mahindra and Mahindra explained about the current and future trends in power train design and its challenges specific to automobiles. In session2, Mr. N.Vijayakumar, Head, Fatigue and systems, Mahindra and Mahindra explained about the basics on an industrial

approach towards a structural concern. In session3, Mr.Praveenkumar, Senior Manager, Mahindra and Mahindra elucidated about modern manufacturing techniques like additive manufacturing in the development of lightweight materials for automobiles. In session4, Mr.P.L.Muthukaruppan, Managing Director, Zero Watts Sustainable Solutions explained about the current problems in employing green energy and sustainable methods in the domain of heating, ventilation and air-conditioning with reference to public health engineering.



5. A Guest Lecture on "**Advanced Internal Combustion Engines**" was organised for IV Year students on 13.02.19. Mr.K.Baskaran, CEO & Founder, KTec Agros Pvt Ltd,

Chennai delivered his lecture on the following topics: Fundamentals of Internal Combustion Engine, Four Stroke, Two Stroke, Petrol and Diesel Engine, Working Fluids, Turbines, Blades, Rotor. Then he explained the recent applications of IC Engines in Automotive, Marine, Industrial Power, Railways, Power, Aircraft, Locomotives, Experimental space vehicles and Large Marine fields.



6. An Industrial Visit was arranged for our IV year Sec 1&2 students to "**Monotech Systems Limited**" Chennai on 15.02.2019. Mr. M. Nallathambi Chief Executive explained about various sections: Stereolithography, Digital Light Processing, Fused deposition Modeling, Selective Laser Sintering, Selective Laser Melting, Electronic Beam Melting, Laminated Object Manufacturing, Binder Jetting , Material Jetting.



7. A Three-day **BFKC Final event** was held at Kari Motor speedway, Coimbatore from 28.02.19 to 02.03.19. Our team "EXCALIBER" participated and cleared the following

rounds: Technical Inspection I, Report Presentation, Business plan, Report Presentation, Design Evaluation, Technical Inspection II, Acceleration test, Brake test, Skid pad test, And auto cross test, Dynamic test. Our team did not get the championship but they got valuable inputs from the technical experts from various parts of India



8. A Six-day "**BAJA SAEINDIA 2019**" Final event was held at IIT Ropar, Punjab from 06.03.2019 to 11.03.2019. Our team "Autobots" participated and cleared the following rounds: Aptitude Test, Final interview, Technical Inspection I, Cost Presentation, Sales Presentation, Technical Inspection II. Our team did not get the championship but we got 20th place and sales presentation we got 5th place out of 100 colleges. Also the team members got valuable inputs from the technical experts from various parts of India.



9. Value added course on **"Engineering Simulation and Its Application in FEA"** was conducted from 30-01-2019 to 27-02-2019. Mr.P.Ramu, Assistant Professor., coordinate the course. The objective of this program is to enhance the knowledge for the application of FEA and simulation techniques in automotive industries with brief knowledge of engineering simulation, element selection, mechanical properties for various applications, basic mechanical analysis.



10. Staff participation:

- **Dr.P.Mathivanan**, Professor published his paper in the title of “ Damping properties of Cloisite 15A mixed Aluminium-GFRP Laminates” in UGC International Journal of Research and Analytical Reviews Volume6, Issue1, pp.519-521.
- **Dr.P.Mathivanan**, Professor published his paper in the title of “ Study on the damping characteristics of epoxy-cloisite 30B filled hybrid metal fibre composites” in Scopus indexed “International journal of applied engineering and research” Volume 14, Number 1 (2019) pp. 166-169
- **Dr.P.Mathivanan**, Professor presented his paper in National Conference on Recent Advances in Mechanical Engineering (RAME 19) at SriRam Engineering college in the title of “Effect of Nanomer 1.30E blended Epoxy on the impact strength of Aluminium-Glass Fiber laminates”
- **Dr.S.Thirugnanam**, Professor, **Dr.P.Mathivanan**, Professor, **Mr.T.R.Vikas**, PG Student presented their paper in National Conference on Recent Advances in Mechanical Engineering (RAME 19) at SriRam Engineering college in the title of “Engineering Wear property by Manganese phosphate coating”
- **Ms.N.Nithya**, Assistant Professor(Sr.G) presented her paper in Second International conference on Sustainable Energy Resources, Materials and Technologies (ISERMAT-2019) in the title of “Alleviation of Regenerative chatter using MR Damper during End Milling Process” at SSN College of Engineering on 15.03.2019
- **Mr.K.Velavan**, Assistant Professor published his paper in the title of " Wear Reduction Analysis of Aramid Matrix Composites" in International Journal of Mechanical and Production Engineering research and Development(IJMPERD) ISSN (P):2249-6890; ISSN (E):2249-8001, Special Issue

Staff In charge

HoD