



SRM VALLIAMMAI ENGINEERING COLLEGE

(An Autonomous Institution)

S.R.M NAGAR KATTANKULATHUR - 603 203

DEPARTMENT OF MECHANICAL ENGINEERING

NEWS LETTER OCT TO DEC 2021



1. A guest Lecture on 'An Insight into Manufacturing and Processing of safety glass' conducted through online mode on 25th Nov 2021. The resource person Mr.S.Naveen Kumar, (Alumnus) B.E., Quality Management, Quality control and Assurance, Saint-Gobain Glass India Private Limited, Sriperumbudur, delivered the expert lecture on the following topics: Fabrication of safety glass, Methods of heating process during glass manufacturing, Glass cutting and grinding process, Testing of glass by non-destructive testing, Insulated glazing units, IGU-Frame preparation station for safety glass, Desiccant filling station and role of butyl station in IGU, Glass pressing procedure in IGU. A total 85 students registered and 51 students participated in the guest lecture.

2. A six day Faculty Development Programme on 'Concepts of Applied Thermodynamics, Heat and Mass Transfer and Kinematics of Machinery' from 25th Nov 2021 to 1st Dec 2021 for the faculties. The following were the resource persons Dr.K.Santhanam, Professor, K.S.Rangasamy College of Technology, Tiruchengode, Mr.G.K.Manikandan, Associate Professor, SSM College of Engineering, Komarapalayam, Namakkal, Dr.L.Saravana Kumar, Associate Professor, Sri Sairam Engineering College, Chennai, Dr.S.Suresh Kumar, Associate Professor/ Mechanical SSN College of Engineering, Chennai, Mr.M.Vadivel, Asst. prof./ Mechanical, SRM Valliammai Engineering College, Chennai, Mr.S.Sivasankar, Asst. prof./ Mechanical, SRM Valliammai Engineering College, Chennai and Mr.K.Vijayendiran, Asst. prof./ Mechanical, SRM Valliammai Engineering College, Chennai explained the following topics: Basic kinematic concepts and definitions, kinematic inversions of four-bar chain and slider crank chains, description of some common mechanisms and kinematics of cam mechanisms, Basic concepts of heat conduction, General differential equation heat conduction and various gas power cycles. Kinematic analysis of simple mechanisms like displacement, velocity and acceleration analysis and detail concept of internal combustion engines, Conservation equations, forced convection, free convection, gas turbines friction in machine elements radiation.

3. Virtual Industrial Visit to TVS Training and Services Ltd was conducted through online mode on 25th Dec 2021. The virtual walk through was guided by Mr. Muneeshwaran, Technical Trainer, TVS Training & Services Ltd., have explained the technical concepts of

Industrial Engineering. The virtual walk through of the Industrial visit had gone through various departments like Additive Manufacturing facility, CNC lab, Metrology & Measurements Lab, Welding shop, Maintenance lab, Electric vehicle division, Automation lab, PLC lab, QMS. The area covered in virtual visit covered was very useful for everyone to learn about the various industrial process, understanding the concept of Quality Management system and Clear understanding of shop floor activities. A total of 120 students registered out of which 72 students participated in the virtual industrial visit.

Staff Activities:

1. Mr.SureshPungaiiah, Asst Prof (O.G) successfully defended his Ph.Dthesis on 'Experimental investigation and CFD Analysis of Heat Transfer in Automobile Radiator using Nano coated tubes.
2. Mr.S.Sivalingam, Asst Prof (Sr.G), Mr.R.Srinivasan, Asst Prof (Sr.G), Mr.J.P.Ramesh, Asst Prof (Sr.G), Ms.N.Nithya, Asst Prof (Sr.G), Mr.P.Ramu, Asst Prof (O.G), Mr.K.P.Manikandan, Asst Prof (O.G), Mr.S.Sivasankar, Asst Prof (O.G), Mr.P.Vijayan, Asst Prof (O.G) and Mr.S.Pradeep, Asst Prof (O.G) successfully completed the 5-day online FDP on the theme 'Inculcating Universal Human Values in Technical Education' organised by AICTE from 22nd Dec 2021 to 26th Dec 2021
3. Mr.R.Ashok, Asst Prof (Sr.G) published research paper on 'Design Of Pipe-Inspection Robot For Pipeline Systems' in the International Journal Of Current Engineering And Scientific Research, ISSN (Print): 2393-8374, (Online): 2394-0697, Volume-8, Issue-11, 2021.
4. ThiyagarajanMuthuKrishnan, IsaacDinaharan, RamaswamyPalanivel and ChinnasamyBalamurugan, 'Prediction of tensile strength and assessing the influence of process parameters of magnetically impelled arc butt welded AISI 409 ferritic stainless steel tubes', in the International Journal of Advanced Manufacturing Technology, (2021). (Impact factor-3.226) <https://doi.org/10.1007/s00170-021-07892-9>
5. T. Muthu Krishnan, C. Balamurugan, I. Dinaharan and R. Palanivel, 'Influence of arc duration on microstructure and tensile behavior of magnetically impelled arc butt welded AISI 409 ferritic stainless steel tubes', Materials Science & Engineering A831(2021)-142257, (Impact factor-5.234) <https://doi.org/10.1016/j.msea.2021.142257>
6. Mr.P.Ramu, Asst Prof (O.G) and R.Ramkumar, Asst Prof (O.G), published a research paper on 'Optimization Of Machining Parameters In End Milling of Gfrp Using Rsm-Sa'

Systems' in the International Journal Of Current Engineering And Scientific Research, ISSN (Print): 2393-8374, (Online): 2394-0697, Volume-8, Issue-11, 2021.

7. Mr.S.Sivalingam, Asst Prof (Sr.G), Mr.P.Vijayan, Asst Prof (O.G), Mr.R.Ramkumar, Asst Prof (O.G), Ms.D.Sony Priyanka, Asst Prof (O.G) and Mr.P.Vijayan, Asst Prof (O.G) successfully completed the 5-day online FDP on the theme ME8501 Metrology and Measurements 'organised by University College of Engineering, Thirukkuvalai from 31st May 2021 to 5th June 2021.

8. Ms.N.Nithya, Asst Prof (Sr.G), Mr.M.Vadivel, Asst Prof (O.G) successfully completed NPTEL Online Certification course on Advanced Machining Processes during Aug-Oct 2021.

9. Mr.S.Sivalingam, Asst Prof (Sr.G), Mr.R.Srinivasan, Asst Prof (Sr.G) published a research paper on 'Investigation Of Mechanical Behaviour Of Mango Seed Peel Particulate Epoxy Composite' in the I-Managers journal on Mechanical Engineering, Vol 11, No 4, Aug-Oct 2021.

10. Mr.S.Sivalingam, Asst Prof (Sr.G), Ms.N.Nithya, Asst Prof (Sr.G), Mr.R.Ramkumar, Asst Prof (O.G), Ms.D.Sony Priyanka, Asst Prof (O.G) and Mr.G.Rajesh, Asst Prof (O.G) successfully completed the 5-day online FDP on the theme ME8594 Dynamics of Machines 'organised by K.S.Rangasamy College of Technology, Thiruchengode from 5th May 2021 to 15th May 2021

11. Mr.G.Ananth, Asst Prof (Sel.G), successfully completed NPTEL Online Certification course on Ethics in Engineering Practice during Aug-Oct 2021.

12. Mr.S.Sivalingam, Asst Prof (Sr.G), Hazard Identification And Risk Assessment In Lignite Handling System Of Thermal Power Plant in the I-Managers journal on Mechanical Engineering, Vol 15, No 4, March-May 2021.

13. Dr,S,Thirugnanam, Professor, presented paper on 'Practical Study on Mechanical Characteristics of Al6061-Ash-SiC Metal Matrix Composites' in International Conference on Materials Research in Science and Engineering, K-MRSE 2021.

14. Dr,S,Thirugnanam, Professor, presented paper on 'An Experimental Investigation On Mechanical Properties of Aluminium-7075 Based Graphite and Bagasse Ash Particles Reinforced Metal Matrix Composite' in International Conference on Materials Research in Science and Engineering, K-MRSE 2021.