

FROM THE EDITOR'S DESK

Warm greetings! I take immense pleasure and privilege to pen a few words for our college Newsletter. A recap of all the activities and programmes that were conducted during the academic year 2020-2021 is presented in this edition. Eminent speakers from industries, premier institutions and professional academies were invited to share their valuable experience and knowledge with our anxious students. With razor sharp perfection, all these activities were unitedly conducted by a team of energetic, enthusiastic faculty of our department. We are highly indebted to the invaluable assistance and support extended by the Management, Principal, department staff, office staff and other for all our entire endeavors.





Dr.K.Siva Head of the Department Mechanical Engineering

DEPARTMENT VISION

To provide quality technical education in Mechanical Engineering and build holistic professionals who can excel in the engineering establishments and serve for the country with ethical values.

DEPARTMENT MISSION

M1: To prepare graduates with good technical skills and knowledge.

M2: To prepare graduates with life-long learning skills to meet the requirements in the higher education and in society.

M3: To prepare graduates as a successful entrepreneur with employment skills, ethics and human values.

PROGRAMME EDUCATIONAL OBJECTIVES (PEOS)

PEO1: Graduates able to apply technical expertise and skills to face the Industrial challenges.

PEO2: Graduates able to design create and innovate economically, environment-friendly and technically feasible products with social acceptance.

PEO3: Graduates able to exhibit professionalism in their profession with good communication, ethics and entrepreneurship skills to meet the social challenges.

PROGRAMME SPECIFIC OUTCOMES (PSOs)

PSO1: Able to design, analyze and apply knowledge in complex mechanical engineering problems with time effective solutions.

PSO2: Able to understand the relevance of engineering practices for societal requirements and become a multi faceted leader.

PROGRAMME OUTCOMES (POs)

Engineering Graduates will be able to

Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

NEW FACULTY JOINED

The department recruited several well qualified faculties in the academic year 2020-2021. The new teaching faculty who joined our department is.



Mr.P.Meenakshi Sundaram. Assistant Professor



Mr.M.Palanisamy. Assistant Professor



Mr.K.Prabhudeva. Assistant Professor



Mr.C.Nijanthan. Assistant Professor



Mr.M.Dinesh Kannan. Assistant Professor



FACULTY ACHIEVEMENTS

S. No	Name of Faculty	Date of Award	Name of the Award	Name of the Professional Society
1	Dr. P. Jeyalakshmi	01.04.2021	Students Chair of Coimbatore ISHRAE chapter(2021-2022)	ISHRAE Chapter

FUNDED PROJECTS & SEMINAR GRANTS

Project Title	Funding Agency	Amount sanctioned	Scheme
Additive Manufacturing	AICTE	Rs. 93,000	ATAL



PROGRAMMES CONDUCTED



International Webinar on "Up skilling for Industry 5.0 Challenges" Chief Guest Mr.R.Vijayakumar, Airbus Group, UK on 12th June 2020.



International level FDP on "Solar Energy" Chief Guest **Dr.K.Sobian, Malaysia** University14-07-2020 to 17-07-2020



FDP on RESEARCH OPPORTUNITIES IN ADVANCED WELDING PROCESSES Chief Guests Dr.V.P.Ragupathy, Bangalore University, Dr.P.Sethuram,PES University, Dr.N.Murugan,PSG Institute of Technology, Dr.Sathish Vasu Kailas,IISC, Bangalore



Four days FDP on Effective Research – Tools, Funding and IPR. Chief guests Dr.S.Vijay,Asso. Prof/Mech,Karunya University, CBE. Dr.A.TamilVanan,Asso. Prof / Mech,Kongu Engineering College. Dr.C. Samson Jerold Samuel,Asso.Prof / Mech, SKCET, CBE.

PAPERS	PUBLISHED	BY FACULTY	
--------	-----------	------------	--

Sl.No.	Calendar Year	Title of paper	Name of the author/s	Name of Journal
1	2020	Active Vibration Control of Rotating Machines	Dr.K.Siva	Solid State Technology
2	2020	Numerical simulation on solar collector and cascade heat pump combi water heating systems in Kazakhstan Climates	Dr.M.Mohanraj	Renewable Energy Elsevier Publishers
3	2020	Drying of untreated Musa nendra and Momordica Charantia in a forced convection solar cabinet dryer with thermal storage.	Dr.M.Mohanraj	Elsevier Publishers
4	2020	Experimental investigations of reciprocating wear behaviour of metal matrix (Ti/TiB) composites	Dr.M.Mohanraj	Archives of Civil and Mechanical Engineering
5	2020	Impact of 3rd grade nano fluid flow across a convective surface in the presence of inclined Lorentz force- An approach to entropy optimization.	Dr.M.Mohanraj	Journal of Thermal Analysis and Calorimetry
6	2020	Experimental investigations on jet impingement solar air heaters using pin-fin absorber plate.	Dr.M.Mohanraj	Journal of Processes Mechanical Engineering
7	2020	Microstructure and corrosion behaviour of ZnO-Mg coating on AISI4140 steel fabricated by spray coating	Dr.M.Mohanraj	Journal of Materials Engineering and Performance
8	2020	Investigations on air deliver landing plan utilizing Genetic Algorithm(GA) and Opposition based GA with Cauchy Mutation (OGACM) and correlations of Punishment cost	Dr.C.Nithyanandam	Test Engineering & Management
9	2020	Elephnat Herding Algortithm to confine the discipline cost of Aircraft Landing Schedule	Dr.C.Nithyanandam	International Journal of Creative Research Thoughts

10	2020	Research on aircraft landing schedule using opposition- based genetic algorithm with Cauchy mutation	Dr.C.Nithyanandam	Int. J. Business Intelligence and Data Mining, Inderscience Publishers
11	2020	Evaluation of tensile & flexural properties of foundry slag reinforced particulate polymer composite	Dr.S.Kannan	Journal of Engineeirng Science & Technology
12	2020	Surface Roughness Assessment Based on Digital Image Texture Analysis of CFRP Composites Machined by Swirling Abrasives	Dr.S.Kannan	Journal of the Balkan Tribological Association
13	2020	Shape modification of automatic actuated fire Sprinkler (AAFS) made up of NiTinol spring	Dr.Y.Ras Mathew	Journal of the Balkan Tribological Association
14	2020	Investigations on LM6 Aluminum Alloy CO2- Sand Moulds	Mr. K. R. Sakthivel	Journal of the Balkan Tribological Association
15	2020	Modelling & Analysis of an EN8 crankshaft material in comparsion with forged steel crankshaft	Mr.L.Karthik	Journal of Materials today Proceedings
16	2020	Numnerical Analysis of Modified tooth in Spur Gear for increasing the performance using fool proofing technology	Mr.L.Karthik	Journal of Materials today Proceedings
17	2020	Modelling & Analysis of an EN8 crankshaft material in comparsion with forged steel crankshaft	Mr.S.Sivakumar	Journal of Materials today Proceedings
18	2020	Modelling & Analysis of an EN8 crankshaft material in comparsion with forged steel crankshaft	Mr.A.Sasikumar	Journal of Materials today Proceedings
19	2020	Numerical Analysis of Modified tooth in Spur Gear for increasing the performance using fool proofing technology	Mr.C.A.Jagadish	Journal of Materials today Proceedings
20	2020	Numnerical Analysis of Modified tooth in Spur Gear for increasing the performance using fool proofing technology	Mr.S.Vidya Prakash	Journal of Materials today Proceedings



Dr. K.Siva, M.Tech., Ph.D. Professor and Head



Mr.A.Nazeer Ahamed, M.E., Ph.D*, Assistant Professor

> Mr.P.John Britto, M.E., Assistant Professor

