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III YearMech
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Ms. C. Madhumithra

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SPARK

**DEPARTMENT OF
MECHANICAL ENGINEERING**

VISION

To produce globally competent mechanical engineers to meet the changing needs of industries through innovative academic processes, research and value based education.

MISSION

The Department of Mechanical Engineering is committed to,

- ❖ Provide fundamental and skill based education in mechanical engineering through innovative practices in teaching and learning
- ❖ Collaborate with reputed industries, professional bodies and research laboratories for establishing Centre of Excellence
- ❖ Imbibe ethical behavior and morality for social upliftment to uphold human values.

PROGRAM EDUCATION OBJECTIVES (PEO)

- ❖ **PEO1:** The graduates of mechanical engineering will have a successful professional career in their related field of engineering to meet the changing needs of various stakeholders.
- ❖ **PEO2:** The graduates of mechanical engineering will involve in technology advancements through continuing education.
- ❖ **PEO3:** The graduates of mechanical engineering will practice their profession with good leadership skills and ethical values.

PROGRAM SPECIFIC OUTCOMES (PSO)

A graduate of Mechanical Engineering should:

- ❖ **PSO 1:** Apply mechanical engineering principles to design, develop and implement advanced machine/mechanical systems or process for better performance and less human effort.
- ❖ **PSO 2:** Ensure quality by applying quality tools, maintenance principles and managerial skills to comprehend the mechanical engineering processes, products and services.

DEPARTMENT EVENTS

PROGRAMS ORGANIZED

1. Department of Mechanical engineering organized a hands on training program on “**Minitab**” and “**HOW TO MAKE YOUR LINKEDIN PROFILE STANDOUT**” for mechanical students **on 15.10.2022** at II year mechanical class room. **Mr. Gokul S and Mr. Arun O** of B.E Mechanical student batch 2021 – 2025 was the guest speaker.



2. Department of Mechanical engineering and Design Society organized two day workshop on “**AUTODESK BOOT CAMP FOR FUSION 360 DESIGN CHALLENGE (UNDER AEGIS OF NAN MUDHALVAN PROGRAM)**” on 17th and 18th October 2022 in computer labs, KPRIET. **Mr.Prasath V** Autodesk India Pvt Ltd , **Mr.Rohit Chandran - Education engagement specialist** , Autodesk India Pvt Ltd and **Mr.Amey Jadhav , Autodesk India Pvt Ltd** was the guest speaker.



- Department of Mechanical engineering in association with Indian Association of Energy Management Professionals jointly organized a seminar on “**SOLAR ENERGY SYSTEM DESIGN**” on **27.10.2020** at Thanam hall, KPRIET. **Dr. Vimal Kumar Eswarlal, CEO, Mangla Smart Energy Solution (P) Limit, Tirupur** was the guest speaker.



- Department of Mechanical engineering organized an Expert talk on “**QUALITIES OF A CAST ENGINEER EXPECTED BY THE INDUSTRY**” on **31.10.2022** at **Veena Hall, KPRIET**. **Mr.Suresh Kumar Perumalsamy – Founder CEO, AGNA Inc, Coimbatore** was the guest speaker.



5. Department of Mechanical engineering organized seminar on “**Advancement in Foundry Technology**” on **31.10.2022 at Veena Hall, KPRIET. Dr. V S Saravanan, Junior Vice President, Indoshell Cast Pvt Lmt, Coimbatore** was the guest speaker.



FACULTY PUBLICATIONS

INTERNATIONAL JOURNALS:

1. Rajasekaran Saminathan, Haitham Hadidi, Yahya Ali Fageehi, P. Manoj Kumar, M. Venkatasudhahar, undefined Ankit, S. Ram, Dawit Tafesse Gebreyohannes, "Experimental Analysis of Mechanical and Thermal Characteristics of Luffa/Epoxy Polymer Composite under the Influence of Nanosilica", Advances in Materials Science and Engineering, vol. 2022, Article ID 6040629, 9 pages, 2022. <https://doi.org/10.1155/2022/6040629>
2. Ramesh C, Mohammed Tharwan, P. Manoj Kumar, Dawit Tafesse Gebreyohannes, "Microstructural and Mechanical Characteristics of Pure-Cu/brass Dissimilar Joints Welded by Friction Stir Welding Using Various Process Parameters", Advances in Materials Science and Engineering, vol. 2022, Article ID 2234352, 10 pages, 2022. <https://doi.org/10.1155/2022/2234352>
3. R Suresh Kumar, S Dharani Kumar and S Rajkumar, Multi-response optimization of AISI H11 using Taguchi and Grey relational analysis, Materials Research Express, Volume 9, Number 10, <https://iopscience.iop.org/article/10.1088/2053-1591/ac95fe/pdf>
4. S Deepan, S Santhosh Raj, T S Ponselvan, R Praveenkumar and J. Alex, Integration of Lean Principles with Fuzzy FMEA in a Small Scale Casting Industry, Journal of Physics:

Conference Series, 2272 012029, 2022, <https://iopscience.iop.org/article/10.1088/1742-6596/2272/1/012029/pdf>

5. N. Karthi, D. Balaji*, N. Vignesh Kumar, L. Feroz Ali, D. Abilash, S. Akash, G. Gajendran, Physical and Mechanical Properties of Randomly Oriented Natural Fiber Hybrid Composites for Exterior Applications, Materials Science Forum, <https://doi.org/10.4028/p-hfs96t>
<https://www.scientific.net/MSF.1070.89>
6. Manickaraj K., Ramamoorthi R, Sathish S and Makesh Kumar M, Effect of hybridization of novel African teff and snake grass fibers reinforced epoxy composites with bio castor seed shell filler: Experimental investigation, Polymers and Polymer Composites, Volume 30: 1–11, <https://journals.sagepub.com/doi/pdf/10.1177/09673911221102288>
7. Gokulkumar S, Sathish S, Kumar SD, Prabhu L. Investigation and analysis of sound-absorbing properties of waste tea leaf fiber as fillers in pineapple leaf/glass fiber-reinforced composites. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications. 2022;0(0). doi:10.1177/14644207221116032
<https://journals.sagepub.com/doi/abs/10.1177/14644207221116032?ai=1gvoi&mi=3ricys&af>

FACULTY AWARDS

1. **Dr. S Ravishankar**/ Associate Professor and **Dr. P Manoj Kumar**/ Associate Professor from the Department of Mechanical Engineering are in the list of **Top 2% Scientist** in the world, by **Stanford University, USA**.

Proud Moment

Prof. S. Ravishankar
Associate Professor

Prof. P. Manoj Kumar
Associate Professor

Professors from the Department of Mechanical Engineering are in the list of
Top 2% Scientists in the world, by Stanford University, USA.
-October 2022

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STUDENT ACHIEVEMENTS

STUDENT PARTICIPATION

1. **Mr. Abhinesh S** of III year Mechanical student acted as a resource person for “**Fusion 360 Boot Camp at MIT, Chennai**” on 28.10.2022.



2. **Mr. Ram Vignesh B** of batch 2019-2022 won the **Dr. Kalam Young Achiever Award 2022** organized by **World Youth Federation** which was guided by Mr. T. Kannan Assistant Prof (Sr.G) of Mechanical department.



3. **Ms. Dharani S, Ms. Madhumithra C, Mr. Vigneshwaran, Mr. Vijay** of III year Mechanical students won the 3rd place in **Connection** and 1st place in **Line follower race** at **Sri Ramakrishna Engineering college, Coimbatore**.



STUDENT PLACEMENT

Placement achievement of the final year students of Department of Mechanical Engineering in various reputed company is shown below.

S.NO	NAME OF THE STUDENT	COMPANY NAME	SALARY
1.	Mr. GIRISHKUMAR .G	CTS	4 LPA
2.	Ms. HARINI .S.V	CTS	4 LPA
3.	Mr. BHARATHWAJ P	CTS	4 LPA
4.	Mr. IMAYA GANESH S	CTS	4 LPA
5.	Mr. HARI PRASANNA .K.S	CTS	4 LPA
6.	Mr. JAYASATHYA M	CTS	4 LPA
7.	Mr. ANISH ANTONY .A	CTS	4 LPA
8.	Mr. ALWYN JOSHUA J	CTS	4 LPA
9.	Mr. KAVIPRIYA DHARSAN V	CTS	4 LPA
10.	Mr. VIMAL A P	CTS	4 LPA
11.	Mr. SUBRAMANIAN M	VELAN VALVES	3.25 LPA
12.	Mr. AATISH .R.K	VELAN VALVES	3.25 LPA
13.	Mr. THAMARASELVAN M	VELAN VALVES	3.25 LPA
14.	Mr. KESAVAN D	CTS	4 LPA
15.	Mr. KISHOREE S	CTS	4 LPA