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LEARN BEYOND
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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 and the Mechanical Engineering Association jointly organized a lecture series on “**Advances in Materials and Manufacturing – Lecture 01: Modern Manufacturing Processes for Advanced Materials**” for mechanical students on 03.02.2023 at Thanam Hall. **Dr. A. Velayudham, Scientists DRDO (Retd)**, Visiting Professor, Anna University Chennai was the guest speaker.



2. Department of Mechanical engineering and FIESTA 23 organized a various technical events and workshops on 16.02.2023 & 17.02.2023 in the various class rooms of mechanical engineering. Technical events such as Paper Presentations, Poster Presentations, Project Expo, Design Contest, Mr. Mechanic, Water Rocketry and Workshops such as 3D Printing & Scanning and Electric Vehicle were conducted.



FACULTY PUBLICATIONS**INTERNATIONAL JOURNALS:**

1. D. Mohankumar, P. Indharajith, P. Sabarishankar, V.T. Sanjaykumar, N. Vignesh kumar, N. Udhayakumar, Experimental investigation on performance, emission and combustion characteristics of neem oil bio diesel using ethanol blend, *Materials Today: Proceedings*, 2023, <https://doi.org/10.1016/j.matpr.2023.01.352>.
2. N. Krishnamoorthy, R. Thirumalai, M. Lenin Sundar, M. Anusuya, P. Manoj Kumar, E. Hemalatha, M. Mohan Prasad, Neha Munjal, Assessment of underground water quality and water quality index across the Noyyal River basin of Tirupur District in South India, *Urban Climate*, Volume 49, 2023, <https://doi.org/10.1016/j.uclim.2023.101436>.
3. Yagya Dutta Dwivedi, P. Manoj Kumar, Anirudh Gupta, N. Ahalya, Dileshwar Rana, Madhusoodan Sharma, Raviteja Surakasi, Experimental study on the treatment of urban garment industry wastewater to mitigate groundwater contamination using a solar evaporative still, *Urban Climate*, Volume 49, 2023, <https://doi.org/10.1016/j.uclim.2023.101435>.
4. V. Kanchana, P. Manoj Kumar, P. Suresh Kumar, I. Kathir, R. Thirumalai, D. Priya, R. Puviarasi, M. Mohan Prasad, Investigating underground water salinity in east coastline of Tamil Nadu, India and improving its quality through solar assisted desalination, *Urban Climate*, Volume 49, 2023, <https://doi.org/10.1016/j.uclim.2023.101440>.
5. Prakash, K. B., Manoj Kumar Pasupathi, Subramaniyan Chinnasamy, S. Saravanakumar, Murugesan Palaniappan, Abdulaziz Alasiri, and M. Chandrasekaran. 2023. "Energy and Exergy Enhancement Study on PV Systems with Phase Change Material" *Sustainability* 15, no. 4: 3627. <https://doi.org/10.3390/su1504362>
6. S. Dharani Kumar, M. Aravindh, V.K. Manoj, C. Madhumithra, P. Kaviya, S. Yaswanth, Fracture toughness of bio-fiber reinforced polymer composites- a review, *Materials Today: Proceedings*, 2023, ISSN 2214-7853, <https://doi.org/10.1016/j.matpr.2023.01.334>.
7. Kumar, Krishnan & Soms, Nisha & Kumar, Murugesan. (2023). Investigation of fused deposition modeling parameters on mechanical properties and characterization of ABS/carbon fiber composites. *Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering*. 095440892311560. 10.1177/09544089231156068.

STUDENTS ACHIEVEMENTS**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. PRAVEEN S	MAPAL	3 LPA
2.	Mr. KEERTHAN G S	MOTHERSON AUTOMATION	3 LPA
3.	Mr. NAVAYUGAN M	MOTHERSON AUTOMATION	3 LPA