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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.

FACULTY PUBLICATIONS

INTERNATIONAL JOURNALS:

1. Raj Mohan, R. Venkatraman, R, Raghuraman, S. Kumar, P. Manoj, Rinawa, Moti Lal, Subbiah, Ram, Arulmurugan, B. Rajkumar, S, Processing of Aluminium-Silicon Alloy with Metal Carbide as Reinforcement through Powder-Based Additive Manufacturing, Scanning, **SCI**, Hindawi, <https://doi.org/10.1155/2022/5610333>
2. K. Ravi Kumar, V. Mohanavel, and K. Kiran, Mechanical Properties and Characterization of Polylactic Acid/Carbon Fiber Composite Fabricated by Fused Deposition Modeling, Journal of Materials Engineering and Performance, **SCI**, **Springer**, <https://doi.org/10.1007/s11665-021-06566-7>
3. R. Rangaraj , S. Sathish, T. L. D. Mansadevi, R. Supriya, Raviteja Surakasi, M. Aravindh, Alagar Karthick , V. Mohanavel , M. Ravichandran , M. Muhibbullah , and Sameh M. Osman, Investigation of Weight Fraction and Alkaline Treatment on Catechu Linnaeus/Hibiscus cannabinus/Sansevieria Ehrenbergii Plant Fibers-Reinforced Epoxy Hybrid Composites, Advances in Materials Science and Engineering, Hindawi, **SCI**, <https://doi.org/10.1155/2022/4940531>,
4. Moti Lal Rinawa, P. Pitchandi, N. **Vigneshkumar**, Manoj Kumar Pasupathi, Experimental analysis of the metal roofed industrial building using nano-silica disbanded crude wax (NDCW), Materials Today: Proceedings, DOI:10.1016/j.matpr.2021.12.253
5. M. Balaji, S.N. Dinesh, S. Raja, Ram Subbiah, P. Manoj Kumar, Lead time reduction and process enhancement for a low volume product, Materials Today: Proceedings, 2021,<https://doi.org/10.1016/j.matpr.2021.12.240>.
6. Karthikeyan S, Mohan K and Arivazhagan S Multi objective optimization of FSW process parameters to enhance the tensile strength and hardness of AA7068 welded joints, Surface Topography: Metrology and Properties, 2021, **9(4)**, 045010.

STUDENTS ACHIEVEMENTS

1. Mr. Imaya Ganesh S of III Year Mechanical Engineering has represented Tamilnadu in India Skills 2021 National Level Competition for the skill Industrial Design Technology (IDT) held at Pragati Maiden, New Delhi on 6th – 10th January 2022.



2. Mr. Pranav A (Alumni 2020 batch) of Mechanical Engineering Commissioned in **Indian Air Force (IAF) –Flying Branch.**



3. Mr. Vibin R A , Mr. Poovarasu E, Mr. Siva Prasad M S and Mr. Samvel R participated in **e-YANTRA,IIT Bombay** in the project title “Smart Irrigation system using IOT” and got selected for the next round.
4. Mr. Vibin R A of third year Mechanical has won the **Golden Award** for the project title “Advance Irrigation System” by the “Confederation of Indian Industry”.



5. Mr.Dilipan N of third year Mechanical won the Bronze Medal in **Roller Skate Basketball** in 4th National Roller Skate Basketball Championship 2021 held in Sonipat, Hariyana.



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. GOKUL M	SKOLAR	3
2	Mr. BALAVIGNESH V	KRYPC	3.6
3	Mr. BALASUBRAMANIAM M	UNSCHOOL	5
4	Mr. ADHITHYA J	SKOLAR	3
5	Mr. SHRI HARI S	SKOLAR	3