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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 NEWS

PROGRAMS ORGANIZED

1. The Department of Mechanical Engineering organized a “QUIZ CONTEST” for the Mechanical engineering students on 28.04.2022 through online mode. Totally 192 students of II and III year Mechanical attended this quiz.



FACULTY PUBLICATIONS

INTERNATIONAL JOURNALS:

1. **Dharani Kumar, S.**, Suresh Kumar, S. Effect of Shot Peening on the Ballistic Performance of Friction Stir Welded Magnesium Alloy (AZ31B) Joints. J. of Materi Eng and Perform (2022). <https://doi.org/10.1007/s11665-022-06992-1>, SCI, IF=1.819
2. K. Raju, M. Balakrishnan, D. V. S. S. V. Prasad, V. Nagalakshmi, Pravin P. Patil, S. Kaliappan, **B. Arulmurugan**, K. Radhakrishnan, B. Velusamy, Prabhu Paramasivam, A. El-Denglawey, "Optimization of WEDM Process Parameters in Al2024-Li-Si3N4 MMC", Journal of Nanomaterials, vol. 2022, Article ID 2903385, 12 pages, 2022. <https://doi.org/10.1155/2022/2903385>, SCI, IF=2.98
3. Moti Lal Rinawa, S.D. Anitha Selvasofia, **P. Manoj Kumar**, Ram Subbiah, Rajasekaran Saminathan, Manoj Kumar Singh, P.T. Saravanakumar, G. Infant Tony Brain, Vimal Kumar Eswarlal, Analyzing an evacuated tube solar water heating system using twin-nano/paraffin as

- phase change material, Materials Today: Proceedings, Volume 50, Part 5, 2022, Pages 2505-2509, ISSN 2214-7853, <https://doi.org/10.1016/j.matpr.2021.10.500>. Scopus
4. **S.N. Dinesh**, M. Shalini, M. Vijay, R.C. Vijey Mohan, Rajasekaran Saminathan, Ram Subbiah, Improving the productivity in carton manufacturing industry using value stream mapping (VSM), Materials Today: Proceedings, 2022, ISSN 2214-7853, <https://doi.org/10.1016/j.matpr.2022.05.015>.
 5. **S.N. Dinesh**, Rajasekaran Saminathan, Milind M. Patil, Prasad Ramchandra Baviskar, Haitham Hadidi, S. Vignesh, P. Manoj Kumar, Investigating the single pass baffled solar air heater (SAH) with an organic PCM (OPCM), Materials Today: Proceedings, 2022, ISSN 2214-7853, <https://doi.org/10.1016/j.matpr.2022.03.216>.
 6. S. Poobesh Kumar, **V. Satish Chandran**, Collapsible roof attachment – An all-weather protective shield for two-wheeler drivers, Materials Today: Proceedings, 2022, ISSN 2214-7853, <https://doi.org/10.1016/j.matpr.2022.03.030>.

FACULTY ACHIEVEMENTS

1. Dr. M. Kumar, Associate Professor, Department of Mechanical Engineering started working for his research project funded by **DST-SERB TARE scheme** at **NIT, Trichy**.

STUDENTS ACHIEVEMENTS

1. Mr. Dhanushh MS and Mr. Aahash S of II year Mechanical students participated in Toycathon 2021 which was organized by AICTE.

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. Harikrishna .D	MAVENTIC	7 LPA
2	Mr. Gowtham .M	IVY MOBILITY	4 LPA
3	Mr. Jaya Deva .R	IVY MOBILITY	8 LPA
4	Mr. Jeevan Prasanth .S	IVY MOBILITY	4 LPA
5	Mr. Pottli Tulasi Kumar Reddy	IVY MOBILITY	4 LPA
6	Mr. Ramvignesh B	IVY MOBILITY	4 LPA
7	Mr. Ranjith Murugan K	IVY MOBILITY	4 LPA