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LEARN BEYOND
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ENGINEERING AND TECHNOLOGY
(Autonomous)
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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, Ignitron and CIIED jointly organized a Guest Lecture on “Who is an Entrepreneur?” for the Mechanical engineering students on 16.07.2022 at Thanam Hall, KPRIET. Mr. Mohan Kumar P, Founder, CEO – ADYA AQUA TECH, Mumbai was the Guest speaker.

FACULTY PUBLICATIONS

INTERNATIONAL JOURNALS:

1. Ganeshkumar, S., S. Dharani Kumar, U. Magarajan, S. Rajkumar, B. Arulmurugan, Shubham Sharma, Changhe Li, R. A. Ilyas, and Mohamed Fathy Badran. 2022. "Investigation of Tensile Properties of Different Infill Pattern Structures of 3D-Printed PLA Polymers: Analysis and Validation Using Finite Element Analysis in ANSYS" Materials 15, no. 15: 5142.
<https://doi.org/10.3390/ma15155142>
2. **V. Bhuvaneswari D.Balaji**, V. Amarnath, , M. Balasubramaniam, , T. Dhanesh kannaa, M. Hariprasadh, S. Karthick, Navin chandar, K.B. Pragadeesh, Sustainable Renewable Energy Generation- A review on applications, Journal of Physics: conference series, 2272, Scopus indexed

3. Naveen R & **Kumar M** (2022) Enhancing UV resistance of TiO₂ reinforced Kevlar 29 fiber using Sol-Gel & Low-temperature Hydrothermal Processes, Polymer-Plastics Technology and Materials, DOI: 10.1080/25740881.2022.2096469, SCI indexed, IF =2.439
4. C. Lavanpriya, V. Muthukumar, **P. Manoj Kumar**, "Evaluating Suppliers Using AHP in a Fuzzy Environment and Allocating Order Quantities to Each Supplier in a Supply Chain", Mathematical Problems in Engineering, vol. 2022, Article ID 8695983, 13 pages, 2022. <https://doi.org/10.1155/2022/8695983>, SCI, IF= 1.43
5. B. Ashok Kumar, Rajasekaran Saminathan, Mohammed Tharwan, M. Vigneshwaran, P. Sekhar Babu, S. Ram, **P. Manoj Kumar**, Study on the mechanical properties of a hybrid polymer composite using egg shell powder based bio-filler, Materials Today: Proceedings, 2022, <https://doi.org/10.1016/j.matpr.2022.07.114>.
(<https://www.sciencedirect.com/science/article/pii/S2214785322047368>) Scopus indexed
6. G. Thilak, Rajasekaran Saminathan, S. Srinivasan, **P. Manoj Kumar**, M.K. Murthi, S. Ram, Analyzing thermal characteristics of an inorganic phase change material, Materials Today: Proceedings, 2022, <https://doi.org/10.1016/j.matpr.2022.07.217>.
(<https://www.sciencedirect.com/science/article/pii/S2214785322048362>), Scopus indexed
7. M. Aravindh, **S. Sathish**, **L. Prabhu**, R. Ranga Raj, Murugesan Bharani, Pravin P. Patil, Alagar Karthick, Rafael Luque, "Effect of Various Factors on Plant Fibre-Reinforced Composites with Nanofillers and Its Industrial Applications: A Critical Review", Journal of Nanomaterials, vol. 2022, Article ID 4455106, 23 pages, 2022. <https://doi.org/10.1155/2022/4455106>, SCI indexed, IF= 3.79

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. MUTHURAMAN T	ADVANTECH	3.5 LPA
2	Mr. GOKUL .M	AVASOFT	5 LPA
3	Mr. MOHAMED TAUFEEQ	AVASOFT	5 LPA

4	Mr. RACHAPALLI YUKESH REDDY	AVASOFT	5 LPA
5	Mr. SANJEEV M S	AVASOFT	5 LPA
6	Mr. VIGNESH M	AVASOFT	5 LPA
7	Mr. PRADEEP D	AVASOFT	5 LPA
8	Mr. SAM WILSON D	AVASOFT	5 LPA
9	Mr. DHANUSH .S	ERROOTS	3 LPA