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**LEARN BEYOND**  
**KPR INSTITUTE**  
of  
**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 NEWSPROGRAMS ORGANIZED

1. Department of Mechanical Engineering in association with Autodesk India Ltd organized a two day workshop on “**Digital Manufacturing using Fusion 360**” at HPC Lab on 21.09.2021 to 22.09.2021. Mr. B.K.Saravanan, Assistant Professor, Department of Mechanical Engineering KPRIET was the guest speaker.

FACULTY PUBLICATIONS**INTERNATIONAL JOURNALS:**

- Selvasofia, S.A., Sarojini, E., Moulica, G., Thomas, S., Tharani, M., Saravanakumar, P.T. and **Kumar, P.M.**, 2021. Study on the mechanical properties of the nanoconcrete using nano-TiO<sub>2</sub> and nanoclay. Materials Today: Proceedings. <https://doi.org/10.1016/j.matpr.2021.08.242> (Scopus)
- Saravanakumar, P.T., Arunkumar, SP, Brailson Mansingh, B., \***Kumar, P.M.**, Ram Subbiah, Vimal Kumar Eswarlal, 2021. Investigating the Effect of Thermal Cycling on Thermal Characteristics of the Nano-Silica based Phase Changing Material (PCM). Materials Today: Proceedings. (Scopus)
- Francis Luther King, M., Putta Nageswara Rao, Sivakumar A, Vamsi Krishna Mamidi, Richard, S., Vijayakumar M., Arunprasath, K., \***Kumar, P.M.**, 2021. Thermal Performance of a Double-Glazed Window Integrated with a Phase Change Material (PCM). Materials Today: Proceedings. (Scopus)

- Rayed, A. M., Esakki, B., Arunkumar, P., Banik, S. C., & Aly, K. (2021). Optimization of UAV structure and evaluation of vibrational and fatigue characteristics through simulation studies. *International Journal for Simulation and Multidisciplinary Design Optimization*, 12, 17. (Scopus)
- Yuvaraj K P, Sowmya S , **Anandkumar R** , Sudarvizhi D, Balaji D, Hari Shankar S B , Paalpandi K , Gokularaman B. (2021). Role of tool pin profile and rotational speed on mechanical properties and microstructural behaviour of friction stir welded AA7075-T651 and AA6061 Dissimilar Alloy Joints. *Design Engineering*, 13852-13860. (Scopus)
- **V.Bhuvanewari** L.Rajeshkumar, K.Nimel Sworna Ross, Influence of bioceramic reinforcement on tribological behaviour of aluminium alloy metal matrix composites: Experimental study and analysis, *Journal of Materials Research and Technology*, <https://doi.org/10.1016/j.jmrt.2021.09.090>

### STUDENT 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. DINESHKUMAR S	HARJI LAB	3.5 LPA
2	Mr. GNANA KISHORE.C	DESMAAN	2.5 LPA
3	Mr. HARI SHANKAR S B	JARO	6 LPA
4	Mr. LOGANANDHAM G	HARJI LAB	3.5 LPA
5	Mr. LOGEASWARAN M	HARJI LAB	3.5 LPA
6	Mr. MUKESH KRISHNA R	PROCYON	3.5 LPA
7	Mr. NAVEEN CS	ZOHO	6 LPA
8	Mr. NIRUPAMVAS	CODE VALUE	3 LPA
9	Mr. SARAN KRISHNA R	INTELLIPAAT	6 LPA
10	Mr. SUBHASH P M	ZOHO	6 LPA
11	Mr. VISHNU PRAKASH S	JARO	6 LPA
12	Mr. YESHWANTH V	PROCYON	3.5 LPA