

**VOL NO.12
ISSUE NO.01
JANUARY 2023**



LEARN BEYOND
KPR INSTITUTE
of
ENGINEERING AND TECHNOLOGY
(Autonomous)
Avinashi Road, Arasur, Coimbatore - 641 407

EDITORIAL

Chief patron (s) : **Dr. A. M. Natarajan**
Chief Executive
Dr. M. Akila
Principal

Patron : **Dr. S. Ramesh Babu,**
Head of the Department

Editor : **Mr. S. Deepan**
Assistant Professor (Sr.G)

Student Members :

IV Year Mech
Mr. P. Sethu
Mr. S. Logesh Kumar

III YearMech
Ms. P. Kaviya
Ms. C. Madhumithra

CONTENTS

1. Faculty Publications
2. Students Achievements



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. K. Nirmal Kumar, P. Dinesh Babu, Raviteja Surakasi, P. Manoj Kumar, P. Ashokkumar, Rashid Khan, Adel Alfozan, Dawit Tafesse Gebreyohannes, "Mechanical and Thermal Properties of Bamboo Fiber–Reinforced PLA Polymer Composites: A Critical Study", *International Journal of Polymer Science*, vol. 2022, Article ID 1332157, 15 pages, 2022. <https://doi.org/10.1155/2022/1332157>
2. P. Manoj Kumar, P.T. Saravanakumar, Atul Sarojwal, Rajasekaran Saminathan, D. Harikrishna, S. Jeevan Prasanth, R. Aravinth Pranav, Experimental investigations on the performance of a single slope solar still with thermal energy storage, *Materials Today: Proceedings*, 2023, <https://doi.org/10.1016/j.matpr.2022.12.221>.
3. V. Bhuvaneshwari, D. Balaji, R. Jeyakumar, N. Srinivasan, L. Rajeshkumar, Effect of limestone powder as bioceramic reinforcement on mechanical and tribological properties of aluminium matrix composites, *Materials Today: Proceedings*, <https://doi.org/10.1016/j.matpr.2022.12.154>.
4. V. Bhuvaneshwari, D. Balaji, V. Amarnath, M. Balasubramanian, T. Dhanesh kannan, M. Hariprasadh, S. Karthick, S. Navin chandar and K.B. Pragadeesh, Sustainable renewable energy generation: A case study based teeny review, *Journal of Physics: Conference Series*, 10.1088/1742-6596/2272/1/012005
5. N Karthi, S Gokulkumar, S Sathish and U S Rajkumar, Acoustical behavior of camellia sinensis/anasas comosus fiber based uni-directional corrugated panel for sound damping application, *Materials Research Express*, 9 (12), DOI 10.1088/2053-1591/acae22

STUDENTS ACHIEVEMENTS

1. **Mr. Dhanush Kumar S** of first year Mechanical participated in National Level Symposium “SAASHTRA 23” by **IIT MADRAS** and won **3rd Prize** in ROBO OCENA event which was sponsored by Caterpillar.

