

**VOL NO.11
ISSUE NO.11
NOVEMBER 2022**



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

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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 EVENTS
PROGRAMS ORGANIZED

1. Department of Mechanical engineering and Mechanical Engineering Association organized a guest lecture on “**Mechanical Engineer to Entrepreneur - A Success story**” on 04.11.2022 at final year Mech A class room. **Mr. Muthaiah Thiagarajan, Co-Founder & Director, Sporfy India Pvt Lmt, Coimbatore** of was the guest speaker.



2. Department of Mechanical engineering and Continuing Education Programme organized a One day workshop on “**3D Printing and 3D Scanning**” on 04.11.2022 at 3D Printing lab. **Dr. M .Kumar Associate Professor** and **Mr. P. Arunkumar AP (Sr.G)** faculty of Mechanical Engineering, KPRIET was the guest speaker.

<p style="text-align: center;">3D Scanner – Artec EVA</p> <p>Make & Model : Artec Eva Lite</p> <p>Resolution : 0.5 mm (500 micron)</p> <p>Accuracy : 0.1 mm (100 micron)</p> <p>Light source : Flash bulb (white)</p> <p>Working distance : 0.4 – 1m</p> <p>Linear Field of View: Closest 214 x 148mm;</p> <p>Farthest 536 x 371 mm</p> <p>Angular FoV : 30 x 21°</p> <p>Image throughput: 16 fps</p> <p>Charges</p> <p>Usage of equipment : 1000/model</p> <p>Consultancy charges: Nil</p>  <p style="text-align: center;">Registration Detail</p> <p>Registration Fee: Rs. 400 /- (incl. of lunch, refreshments, and certificate)</p> <p>Registration link: https://forms.gle/11QxLH1Qb3mL9T Xo w6</p> <p>For More Details, Contact Mr. P. Arunkumar, AP (Sr.G.) Ph.: 7200010664 / 9965386514 KPRIET, Coimbatore.</p>	<p style="text-align: center;">On-going Research</p> <p>DST-SERB-TARE</p> <p>Title : Development and Characterization of Novel Additive Manufactured Functionally Graded Aluminum Composite for Energy Efficient Brake Rotor Application;</p> <p>PI : Dr.M.Kumar, ASP, Mech. Engineering, KPRIET, Coimbatore.</p> <p>Mentor : Dr.D Lenin Singaravelu, ASP, Production Engineering, NIT Trichy.</p> <p>Amount : Rs.18.30 Lakh.</p> <p style="text-align: center;">Resource Persons</p> <p>Dr. M. KUMAR Associate Professor Department of Mechanical Engineering KPR Institute of Engineering and Technology Arasur, Coimbatore – 641 407. Email ID: kumar.m@kpriet.ac.in Phone No: +91-9965386514</p> <p>Mr. P. ARUNKUMAR Assistant Professor (Sr.G) Department of Mechanical Engineering KPR Institute of Engineering and Technology Arasur, Coimbatore – 641 407. Email ID: arunkumar.p@kpriet.ac.in Phone No: +91-7200010664</p> 	<p style="text-align: center;">KPR Institute of Engineering and Technology Learn Beyond (Autonomous, NAAC 'A')</p> <p style="text-align: center;">Continuing Education Programme Jointly with Department of Mechanical Engineering Organize a One Day Workshop on</p> <p style="text-align: center;">3D PRINTING & 3D SCANNING on 04th November 2022</p> <p style="text-align: center;">Convenors</p> <p>Dr. S. RAMESH BABU Dr. B. NAGARAJAN, Professor & HoD/Mech Professor & DCoE</p> <p style="text-align: center;">Co-ordinator Mr. P. ARUNKUMAR, AP (Sr.G.) Venue: 3D Printing Lab, Mech. Engg.</p> 
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- Department of Mechanical engineering conducted the 8th Board of Studies meeting on 29.11.2022 through hybrid mode. Delegates from various industries and reputed college participated in this meeting and gave approval for passing the curriculum and syllabus for regulation 2021 and open electives courses.



FACULTY PUBLICATIONS

INTERNATIONAL JOURNALS:

- Bhuvaneshwari, V., Balaji Devarajan, B. Arulmurugan, R. Mahendran, S. Rajkumar, Shubham Sharma, Kuwar Mausam, Changhe Li, and Elsayed Tag Eldin. 2022. "A Critical Review on Hygrothermal and Sound Absorption Behavior of Natural-Fiber-Reinforced Polymer Composites" *Polymers* 14, no. 21: 4727. <https://doi.org/10.3390/polym14214727>
- V. Bhuvaneshwar , L. Rajeshkumar, R. Saravanakumar, D. Balaji , Synthesis and Characterization of Bioceramics Reinforced Aluminium Matrix Composites, *Arch. Metall. Mater.* 67 (2022), 4, 1217-1226

STUDENT ACHIEVEMENTSSTUDENT PARTICIPATION

1. **Mr. Aravind.S and Mr. Dhanush Kumar.S** from 1st year Mechanical engineering participated in Glider, Rc Car, Water Rocket and Drone which was conducted by **IIST-Trivandrum**. They won **3rd place in Glider and 2nd Place in Drone**.



2. **Mr. Dhanush Kumar .S** from the 1st year Mechanical engineering participated in **ISO certified National Level Event "ROBOVEDA 22"** conducted by **SNIST College, Hyderabad** and won **2nd prize of Rs.4000 in RC Boat Competition**.



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	VALEO	4.5 LPA
2.	Mr. JAYA DEVA .R	VALEO	4.5 LPA
3.	Mr. JEEVAN PRASANTH .S	VALEO	4.5 LPA
4.	Mr. RAMVIGNESH B	VALEO	4.5 LPA
5.	Mr. RANJITH MURUGAN K	VALEO	4.5 LPA
6.	Mr. ARUNTHATHI .S	VALEO	4.5 LPA
7.	Mr. SETHU P	VALEO	4.5 LPA
8.	Mr. STEWIN S	VALEO	4.5 LPA
9.	Mr. DINESH KUMAR .S	VALEO	4.5 LPA
10.	Mr. MOHAMED TAUFEEQ	VALEO	4.5 LPA
11.	Mr. PRADEEP D	VALEO	4.5 LPA
12.	Mr. ALWYN JOSHUA J	VALEO	4.5 LPA
13.	Mr. INFANT TONY BRAIN .G	VALEO	4.5 LPA
14.	Mr. SATHISHKUMAR R	VALEO	4.5 LPA
15.	Mr. ABIVARMAN .V	VDART	2.4 LPA
16.	Mr. BOOVASANTH .S.P	VDART	2.4 LPA
17.	Mr. VISHAAL S	VDART	2.4 LPA
18.	Mr. ASWIN SRIRAM J	VDART	2.4 LPA