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

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**DEPARTMENT OF  
MECHANICAL ENGINEERING**

# SPARK

### 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. Department of Mechanical Engineering in association with Indian Welding Society made MOU signing ceremony and organized a one day National level workshop on **\*Advances in Welding and Wire Arc Additive Manufacturing\*** on 05.03.2022 in Thanam Hall.



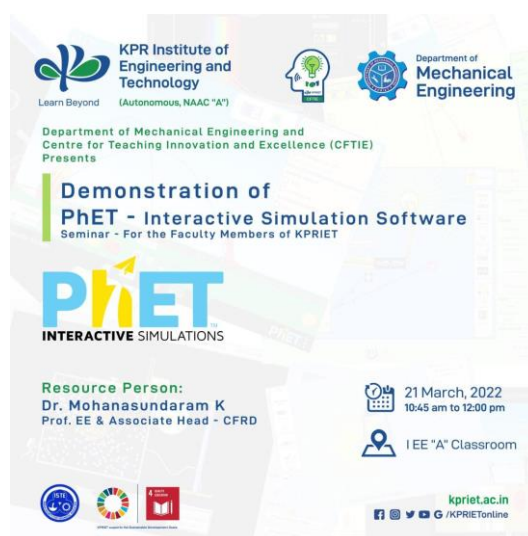
2. Mr. B K Saravanan AP (Sr.G) of department of Mechanical Engineering organized a Tech Talk and Live Demo on “Generative Design” to the Executive members of ELGI on 10<sup>th</sup> March 2022. Mr. S. Imaya Ganesh and Mr. P Bharathwaj students of Mechanical department 2019-2023 gave the expert talk in this program.



3. Department of Mechanical Engineering organizes a FDP on “Meet the Masters Experience Lecture series – Week 2” on 12<sup>th</sup> March 2022. Three lecture series have been conducted with Dr.K.Ravikumar, Professor , Dr.B.Arulmurugan, Associate Professor of Department of Mechanical Engineering, KPRIET and Mr. Pradeep A D , Assistant Professor (Sr.G), Department of Mechanical Engineering, BIT, Sathyamangalam were the guest speaker.



4. Department of Mechanical Engineering and CFTIE jointly organized a seminar on “PhET – an interactive simulation software” that provides fun, free, interactive, research-based science and mathematics simulations on 21<sup>st</sup> March 2022. This seminar was demonstrated by Dr K. Mohanasundaram, Prof. EE & Associate Head – CFRD, KPRIET.



5. Department of Mechanical Engineering organizes an Orientation Program on “**Embarking Footprints in National Level Competitions**” on 10<sup>th</sup> March 2022. Dr. S Arivazhagan, Innovation Officer, Coordinator – Aviation & Robotics club, KPRIET handled the session.



6. Department of Mechanical Engineering in collaboration with Ambal Auto, Coimbatore organized Hands on Training on “**4-Wheeler Engine & Transmission System**” on 26<sup>th</sup> March 2022 at Automobile Laboratory, KPRIET. Experts from Ambal Auto, Coimbatore gave training to the students in Engine & Transmission System.





## FACULTY PUBLICATIONS

### INTERNATIONAL JOURNALS:

1. Dharani Kumar S & Suresh Kumar S, Influence of Post Weld Cryogenic Treatment on the Ballistic Penetration Resistance of Friction Stir-Welded AZ31B Magnesium Alloy, Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, <https://doi.org/10.1177/09544062221077586>, ( Scopus)
2. P. Manoj Kumar, Prashant Chauhan, Amit Kumar Sharma, Moti Lal Rinawa, A.J. Rahul, M. Srinivas, A. Tamilarasan, Performance study on solar still using nano disbanded phase change material (NDPCM), Materials Today: Proceedings, <https://doi.org/10.1016/j.matpr.2022.01.050>, ( Scopus)
3. Rajneesh Sharma, Prashant Chauhan, Amit Kumar Sharma, Atul Katiyar, Hari Kumar Singh, Moti Lal Rinawa, **P. Manoj Kumar**, Characterization of ZnO/nanofluid for improving heat transfer in thermal systems, Materials Today: Proceedings, <https://doi.org/10.1016/j.matpr.2022.01.107> ( Scopus)
4. P. Manoj Kumar, A. Sumayli, Manoj Mittal, A.S. Abishek, A.S. Atharsh Kumaar, Tadimarri Dinesh Kumar Reddy, Moti Lal Rinawa,, Experimental analysis of a heat sink for electronic chipset cooling using a nano improved PCM (NIPCM), Materials Today: Proceedings, <https://doi.org/10.1016/j.matpr.2022.01.178> ( Scopus)

## FACULTY ACHIEVEMENTS

1. **Mr. Kannan.T, Assistant Professor (Sr.G)**, Department of Mechanical Engineering received a Project grant from TNSCST-SPS-21-22fund of **Rs. 7500/-** under the title **“Bluetooth controlled floor cleaning robot by using android phone”**.



Mechanical Engineering  
Accredited by NBA  
Permanently Affiliated to Anna University, Chennai  
Anna University Recognised Research Centre



*Congratulations!*



Kannan T  
AP (Sr.G)/ Mech

For securing project fund under



TNSCST - SPS - 21-22

Bluetooth controlled floor  
cleaning robot by using android  
phone

[kpriet.ac.in](http://kpriet.ac.in)

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## STUDENTS ACHIEVEMENTS

1. Mr. M. Karthikeyan, Mr. B. Ramvignesh and Mr. K. Varadharaj of III year Mechanical Students won **“1<sup>st</sup> place in National Level Project Expo 2022”** which was conducted at NIT, Puducherry.
2. Mr. Samvel. R, Mr. Vibin R A and Mr. Poovarasu E of II year Mechanical Student won **Runner position** with cash award of **₹.20,000 /-** in **“Grey Matter -Senior Category, Robotics Competition”** which was organized by Hindustan Institute Of Technology, (Deemed),Chennai.



3. **Sergeant Abhinesh.S** from II year Mechanical participated in the Inter group competition (ICG) Firing (6<sup>th</sup> TN MED COY) held at Kongu Engineering college, Perundurai and won the **Silver medal**.



### 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. Balaji S V	INFOSYS	3.6 LPA
2	Mr. Chiranjeevi K	INFOSYS	3.6 LPA
3	Mr. Gokulnathan B	INFOSYS	3.6 LPA
4	Mr. Mouliswer P	INFOSYS	3.6 LPA
5	Mr. Bujala Venkata Krishna Reddy	INFOSYS	3.6 LPA
6	Mr. Mahesh Boopathy.S	INFOSYS	3.6 LPA
7	Mr. Guruprasath J	INFOSYS	3.6 LPA
8	Mr. Pragadeesh K.B	SCHUF VALVES	2 LPA