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

## EDITORIAL

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III YearMech  
**Mr. P. Sethu**  
**Mr. S. Logesh Kumar**

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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

- The Department of Mechanical Engineering organized two-day Hands-on workshop on “**Demystifying Reverse Engineering with 3D Scanning**” during 04.04.2022 & 05.04.2022 especially for Polytechnic/Engineering Students. Totally 34 external students from various ITI, Polytechnic and Engineering College and 6 internal students from CSE and EEE department undergone this workshop.

**KPR Institute of Engineering and Technology**  
Learn Beyond (Autonomous, NAAC "A")

**APR 04 - 05 2022** 09:30 am to 04:15 pm

Centre of Excellence - 3D Printing Laboratory Organizes

Department of Mechanical Engineering

Two - Day Hands - on Workshop on  
**Demystifying Reverse Engineering With 3D Scanning**

Venue: 3D Printing Laboratory

Registration Fee : **Rs.500 for 2 days**  
(incl. of lunch, refreshments and certificate)

For Further Details, Contact  
Dr.M.Kumar : 9965386514  
Mr.P.Arunkumar : 7200010664

Convener:  
Dr. S. Ramesh Babu, HOD / ME

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- Department of Mechanical Engineering in association with Centre for Innovation, Incubation and Entrepreneurship Development organized a one day workshop on “**Prototype Design and Development** on 20.04.2022 at Thanam hall, KPRIET. Mr. A. Aravindhan, Senior Manager, Manufacturing Engineering, Pricol Limited, Coimbatore was the guest speaker.

Department of Mechanical Engineering

Centre for Innovation, Incubation and Entrepreneurship Development

Organizes  
**Prototype Design and Development - Prototyping**  
Workshop

Thanam Hall,  
Mechanical Department

April 20  
10:30 AM to 11:30 AM

Chief Guest:  
**Mr. A Aravindhan**  
Senior Manager  
Manufacturing Engineering  
Pricol Limited, Coimbatore

Coordinators:  
Dr. Ravikumar. K. Professor,  
Ph: +91 99941 57654  
Mr. Mohankumar D, AP  
Ph: +919789592209

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3. The Department of Mechanical Engineering organized a SERB Sponsored one day national level seminar titled **“Processing and characterization of Additive manufactured components for Engineering and Medical applications”** on 22/04/2022 at Thanam hall, KPRIET.

**Speakers**

**Design for Additive Manufacturing**  
**Dr. Senthilkumar K**  
 Assistant Professor, Mechanical Engineering  
 Indian Institute of Information Technology, Design & Manufacturing (IITD&M) Kancheepuram

**Engineered health care products through Additive Manufacturing**  
**Dr. Rajesh Ranganathan**  
 Professor,  
 Coimbatore Institute of Technology, Coimbatore.

**Applications of Additive manufacturing in Industries**  
**Dr. K. Ravi Kumar**  
 Professor,  
 KPR Institute of Engineering and Technology, Coimbatore.

**Demonstration on SLA and FDM Technologies**  
**Dr. Kumar M**  
 Associate Professor,  
 KPR Institute of Engineering and Technology, Coimbatore.

Register:  
[bit.ly/KPRIET\\_AM2022](http://bit.ly/KPRIET_AM2022)

For Details,  
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 M: ravikumar.k@kpriet.ac.in

**KPR Institute of Engineering and Technology**  
 Learn Beyond (Autonomous, NAAC "A")  
 Avinashi Road, Arasur, Coimbatore.

**SERB Sponsored One day National seminar on Processing and Characterization of Additive Manufactured Components for Engineering and Medical Applications**  
 22 April 2022.

**Department of Mechanical Engineering**

**iNSERB DRA**

4. Department of Mechanical Engineering in collaboration with Ambal Auto, Coimbatore and SAE India organized Hands on Training on **“4-Wheeler Engine & Transmission System”** on 23.04.2022 at Automobile Laboratory, KPRIET. Experts from Ambal Auto, Coimbatore gave training to the students in Engine & Transmission System.

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**Department of Mechanical Engineering**

**ambal**  
 AUTOMOBILE REPAIRERS

**SAE INDIA**

Department of Mechanical Engineering organizes  
**Hands-on Training on 4 Wheeler Engine & Transmission Systems**  
 In Collaboration with Ambal Auto, Coimbatore

**Venue: Automobile laboratory**

<b>23 April 2022</b>	<b>Limited to 50 Members</b>	<b>Registration Fee Rs. 300/-</b>
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**Faculty Coordinators**  
 Dr. K. Ravikumar, Professor  
 Mr. P. Boobalakrishnan, AP (Sr.G)

**Student Coordinators**  
 Mr. Kanishk J M - 1 yr Mech  
 Mr. Venu Aravindan G - 1 yr Mech

**SUSTAINABLE DEVELOPMENT GOALS**

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5. Department of Mechanical Engineering and 5S Team organized a Top Up Lecture on Work with 5S on 27.04.2022 at Thanam hall. Mr. Paalkanna M, Assistant General Manager - Quality Engineering, M/S Janatics India Pvt Lmt, Coimbatore was the speaker of this session.



## FACULTY PUBLICATIONS

### INTERNATIONAL JOURNALS:

1. N. Muthukumaran, G Kathiresan, M.N. Shree Raam, G. Chandru, S. Dineshkumar, K. Chiranjeevi, S. Rajkumar, M. Manikandan, B. Arulmurugan, Comparative studies on weldability and mechanical characteristics of semi- killed steel using different arc welding technique, Materials Today: Proceedings, 2022, ISSN 2214-7853, <https://doi.org/10.1016/j.matpr.2022.04.146>. ( **Scopus** )
2. N. Sivakumar, B Sanjay Gandhi , K Senthil Kumar and B Arulmurugan, Effect of constant current and pulsed current gas tungsten arc welding process on microstructure and mechanical properties of superalloy 59 joints, Materials Research Express, 9(4), 2022, <https://iopscience.iop.org/article/10.1088/2053-1591/ac6793> ( **Scopus** )
3. S. Dharani Kumar, U Magarajan, Saurabh S Kumar, Investigation on ballistic behaviour of friction stir welded rolled AZ31B magnesium alloy, <https://doi.org/10.1177/14644207221095209> ISSN: 1464-4207, SCIE



## STUDENTS ACHIEVEMENTS

1. Mr. Dilipan N of III year Mechanical Student was selected to participate in **1<sup>st</sup> International Coaching Camp -2022 in Bandy (Field Hockey on Ice)** which was organized by Bandy Association of India, New Delhi.



2. Mr. Samvel. R, Mr. Vibin R A, Mr. Siva Prasath M S and Mr. Poovarasu E of II year Mechanical Student were the **Winner** under the category **Best Implementation Award in e-Yantra Innovation challenge (2021-2022) Grand finale** which was organized by IIT Bombay.



**STUDENT PLACEMENT**

Placement achievement of the final year students of Department of Mechanical Engineering in various reputed company is shown below.

<b>S.NO</b>	<b>NAME OF THE STUDENT</b>	<b>COMPANY NAME</b>	<b>SALARY</b>
1	Mr. Bharath.R	PINNICAL	3 LPA
2	Mr. Mohamed Noufal. K	PRIJI.NET	4.5 LPA
3	Mr. Gowtham T	INFOSYS	3.6 LPA