

Newsletter of Department of Mechanical Engineering.

K.Ramakrishnan College of Engineering, Samayapuram, Tiruchirappalli.



**K.RAMAKRISHNAN  
COLLEGE OF ENGINEERING**

**An Autonomous Institution**

Permanently Affiliated to Anna University Chennai, Approved by AICTE New Delhi,  
ISO 9001:2015, 14001:2015 certified institution, Accredited by NBA and with A grade by NAAC

Samayapuram, Tiruchirappalli – 621 112, Tamilnadu, India.



## ABOUT THE DEPARTMENT

Mechanical Engineering is one of the prestigious branches of Engineering. The modern state-of-the-art technology leads to the fact that an Mechanical Engineering graduate will fit in all corporate sector. The Department of Mechanical Engineering at K.Ramakrishnan College of Engineering (KRCE) was established in the year 2008 with an intake of 60 students. The Department progressed to 120 students in the year 2013. The Department was accredited by NAAC with A Grade in the year 2016. The department has R&D center approved by Anna University, Chennai for Conducting Research Programs. Our department has produced a number of University Ranks from its inception.

The department of Mechanical Engineering has been offering a full time 4 year B.E. degree course since the inception of the institution in the year 2008. We have sound infrastructure facilities like full-fledged Mechanical Machines lab, Fluid Machines Lab, Thermal Lab, Manufacturing Technology Lab, Dynamics of Machinery Lab, CAD Lab, established research laboratories with latest equipment and experimental setups like 3D Printing. We have well established library, digital library for online journal access with high band wi-fi internet facility, dedicated and well qualified faculty team and technical supporting staff are the highlights of the MECHANICAL Department.

## VISION

“To emerge as a renowned department for high quality teaching, learning and research in the domain of Mechanical Engineering, producing professional engineers, to meet the challenges of society.”

## MISSION

- ❖ To establish the infrastructure resources for imparting quality technical education in Mechanical Engineering.
- ❖ To achieve excellence in teaching, learning, research and development.
- ❖ To impart the latest skills and developments through practical approach along with moral and ethical values.

## **RESEARCH**

The Department always remains in the forefront owing to research and consultancy activities. It also has well equipped laboratories with all modern equipment in the specialized areas to cater to the needs of students and scholars. State-of-the-art testing facilities related to mechanical Engineering are provided in these laboratories to fulfil the need of industries and external agencies. The faculty members of the Department have expertise in carrying out the necessary testing and consultancy services and also many scholars are pursuing Ph.D under their guidance.

## **HIGHLIGHTS OF RESEARCH CENTRE**

- ❖ The department has been recognized as Research Centre by Anna University, Chennai since November 2017.
- ❖ The research centre has two research supervisors recognized by Anna University, Chennai.
- ❖ Eleven Research Scholars have registered for Ph.D. programme in the department research centre, in Part-Time category.
- ❖ The faculty members and research scholars of our department consistently publish papers in referred national & international journals/conferences.
- ❖ The Department is regularly conducting International Conference on Innovations in Engineering, Technology and Science (ICIETS) every academic year to promote academic research.
- ❖ The Department of MECHANICAL has state of art facilities in research laboratory and is actively involved in collaborating with industries for research and consultancy works.

## **DESCRIPTION**

The Research lab shows a new mechanism to improve the innovation ability of research scholars and to collaborate with the industry persons. It provides a platform for the research scholars in the department to share their knowledge in their field of expertise. It also helps the post graduate students to understand the basic necessity in doing research and to acquire guidance from the experts in various domains. The lab also supports in conducting

lab sessions while conducting national/international short term training programs and workshops to all the participants satisfying their thirst in the recent fields of power systems and power electronics. Research in the department may be broadly divided into so-called "thrust" areas:

#### **Research Equipment Available in the Department**

1. Pin On Disc Wear Testing Machine (DUCOM)
2. Optical Microscope with Image Analyser
3. Double Disc Polishing Machine
4. Computerized Universal Testing Machine
5. 3D Printing machine
6. AR/VR Module
7. Vickers Micro Hardness
8. Lathe Tool Dynamometer
9. Milling tool dynamometer
10. Drill Tool Dynamometer
11. Universal Testing Machine
12. CNC Milling & Lathe Machine
13. Autocollimator
14. Surface Roughness Tester
15. Vibration Absorber
16. F.F.T Analyzer
17. Journal Bearing Setup
18. Data Logging of Process Variables (Multi Process Control)
19. Thermal conductivity of insulating powder apparatus

#### **RESEARCH SOFTWARES:**

1. SOLIDWORKS Software
2. ANSYS Software
3. Matlab software
4. EdgeCAM Software
5. AUTOCAD Software

## LIST OF PUBLICATIONS DURING THE ACADEMIC YEAR JUNE 2024- 2025

- ✓ R. Sanjeevi, **D. Jafrey Daniel James** & P. SenthamaraiKannan Exploration of Cymbopogon nardus root fibers characteristics for sustainable lightweight composite reinforcement applications Cellulose Published 05 September 2024 <https://doi.org/10.1007/s10570-024-06160-9>.
- ✓ P. Natarajan, P. Sakthivel, V. Vijayan & **K. Chellamuthu** Characterization of Pulse Electrodeposited Ni-SiC Nanocomposite Coating on Four Stroke Internal Combustion Engine Cast Iron Cylinder Liner Silicon Published: 21 September 2024 <https://doi.org/10.1007/s12633-024-03145-y>.
- ✓ **Jafrey Daniel James** Dhilip, Vijay Raghunathan, Ramesh Mohan, Vinod Ayyappan, Sanjay Mavinkere Rangappa & Suchart Siengchin Mechanical and flammability properties of ultrasonically processed silane-treated areca-banana fiber-reinforced epoxy composites for lightweight applications Biomass Conversion and Biorefinery Published: 19 September 2024. <https://doi.org/10.1007/s13399-024-06124-w>.
- ✓ S. Jayasathyakawin **Manickam Ravichandran** R. Naveenkumar N. Radhika Sikiru O.Ismail V. Mohanavel Recent advances in magnesium alloys for biomedical applications: A review Materials Today Communications Vol No 42, year 2025, 111239, <https://doi.org/10.1016/j.mtcomm.2024.111239>.
- ✓ Gopathy Veerappan, **Manickam Ravichandran**, David Pritima, Vinayagam Mohanavel, Nachimuthu Radhika, Rasaiah Naveenkumar Synthesis of semi sintered nickel bronze electrode for electric discharge surface alloying of silicon steel and the properties of coated surface.Result in surfaces and interfaces Vol no : 18,year 2025,100400, <https://doi.org/10.1016/j.rsufi.2024.100400>.
- ✓ Manzoore Elahi M. Soudagar Aman Sharma N. Naga Bhooshanam Vinayagam Mohanavel R. Venkatesh **M. Ravichandran** Manikandan Ayyar Sami Al Obaid Sulaiman Ali Alharbi,"Integration and heat performance evaluation of NaNO<sub>3</sub>– KNO<sub>3</sub> PCM and hybrid nanofluid configured solar thermal heat exchanger". Journal of Thermal Analysis and Calorimetry <https://doi.org/10.1007/s10973-024-13970-3>.
- ✓ **N. Karthikeyan**, Karthigairajan M, S. Prabakaran, Lokesh Selvam, R. Venkatesh, C. B. Priya, Sami Al Obaid, Sulaiman Ali Alharbi & M. A. Kalam Blending action of pyrolysis oil/diesel fuel featured with hydrogen on compression ignition engine performance and emission analysis Petroleum Science and Technology, <https://doi.org/10.1080/10916466.2024.2337406>.
- ✓ Maddali Saran Akanksha Penugonda Sumanth, Uppinath Valayannur Akhil, Nachimuthu Radhika **Manickam Ravichandran** The modification and adoption of biolubricants as alternatives in the automotive industry Environmental Science and Pollution Research, <https://doi.org/10.1007/s11356-024-35670-z>.
- ✓ **S.Sivananthan**, Samson Jerold Samuel Chelladhurai, Machinability studies of LM24 Aluminium alloy –ZrB<sub>2</sub>- fly ash reinforced hybrid composites using response surface methodology Surface review and letters DOI: 10.1142/80218625X25500751.
- ✓ B. Radha Krishnan Ramesh Vellaichany R. Sanjeevi -**H. Ramakrishnan** M. Karuppaiah

Rajkumar Experimental investigation of mechanical and metallurgical properties of LM25 aluminium alloy with boron carbide composite Interactions, <https://doi.org/10.1007/110751-025-02246->.

- ✓ Paranthaman V , Dhivakar Poosapadi b , Ashwin Sailesh , Vipin Sharma , Rahul Singh , Rajasekhara Babu L , K.K. Arun , **M. Ravichandran** , T.S. Senthil Role of heat treatment in enhancing microstructure and properties of Inconel 625 manufactured by directed energy deposition using wire arc Journal of Alloys and Metallurgical Systems, <http://www.journals.elsevier.com/journal-of-alloys-and-metallurgical-systems> .
- ✓ R. Venkatesh Ravindra Pratap Singh N. Naga Bhooshanam Vinayagam Mohanavel K. Karthik Manikandan Ayyar **Manickam Ravichandran** Manzoore Elahi M. Soudagar A. H. Seikh Alumina-silicon dioxide hybrid nanofluid action on functional characteristics of photovoltaic thermal collector featured with spiral coil Journal of Thermal Analysis and Calorimetry, <https://doi.org/10.1007/s10973-024-13973-0>.
- ✓ D. Jafrey Daniel James G. Karthik Pandiyan Raghunathan Vijay Ayyappan Vinod Mavinkere Rangappa Sanjay Siengchin Suchart Chemically treated Acacia nilotica filler-reinforced epoxy composites: tribological studies and optimization of process parameters Chemical papers <https://doi.org/10.1007/s11696-024-03601-4>
- ✓ **B. Prakash** and S. irudayaraj Microstructural and Mechanical Characteristics of Zirconium Carbide and Fly Ash-Reinforced LM 13 Hybrid Metal Matrix Composites JMEPEG, <https://doi.org/10.1007/11665-025-10666-2>
- ✓ Vinayagam Mohanavel , A. Thanikasalam , Thandavamoorthy Raja , **M. Ravichandran** , Manigandan Ayyar g, Ranganathan Lakshmanan h, Manzoore Elahi M. Soudagar Study on the process parameters of delamination on novel madar/ramie fibers reinforced MgO nanoparticles blended epoxy matrix composite Results in Engineering, <http://www.sciencedirect.com/journal/results-in-engineering>.

## PLACEMENT

The Training and Placement Cell organizes a number of training programs for the students of all semesters with the help of in-house experts and experts drawn from professional agencies. The activities have proved exceptionally useful in shaping the career of students. The staff members of the placement cell work together as a team in molding the students to the requirements of various industries. In order to motivate and develop the personality of students, several HRD training programs are conducted regularly. To impart training to all students to develop their employability skills and to be good Corporate Executive and Civilized Citizen.

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**DEPARTMENT OF MECHANICAL ENGINEERING**  
**BATCH: 2021-2025**  
*Heartty congratulation*  
**For placed in Anand Engineering**

**AMARNATH.A.K**  
**ARAVIND.A**  
**PRAVEEN KUMAR**  
**ASHFAQ.A**  
**DHANUSH.S**  
**HARI KHARA SUDHAN.B**

**Mr.S.RAGHUVARAN**  
DEPT.PLACEMENT INCHARGE  
**Dr.H.RAMAKRISHNAN**  
HOD-MECH  
**Dr.D.SRINIVASAN**  
PRINCIPAL  
**Dr.S.KUPPUSAMY**  
EXUCUTIVE DIRECTOR  
**Dr.K.KAMAKRISHNAN**  
CHAIRMAN



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**For placed in Anand Engineering**



**IMMANUEL.A**



**ITHE THAMIZHAN**



**JANA HARSHAV ARDHAN.NR**



**KABASHRAJA**



**KEERTHEE VASANA .S.S**



**MAHESH CHANDRAN.A**

**Mr.S.RAGHUVARAN  
DEPT.PLACEMENT INCHARGE**

**Dr.H.RAMAKRISHNAN  
HOD-MECH**

**Dr.D.SRINIVASAN  
PRINCIPAL**

**Dr.S.KUPPUSAMY  
EXCUTIVE DIRECTOR**

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**For placed in Anand Engineering**



**MATTHEW PIUS.M**



**SAM KUMAR.J**



**SRI KUMAR.S**



**SURESH.B**



**THARUNPRANAV.B.K**



**VINOTH.C**

**Mr.S.RAGHUVARAN  
DEPT.PLACEMENT INCHARGE**

**Dr.H.RAMAKRISHNAN  
HOD-MECH**

**Dr.D.SRINIVASAN  
PRINCIPAL**

**Dr.S.KUPPUSAMY  
EXCUTIVE DIRECTOR**

**Dr.K.KAMAKRISHNAN  
CHAIRMAN**

**DEPARTMENT OF MECHANICAL ENGINEERING**  
**BATCH:2021-2025**

*Heartly Congratulation*

**For placed in Nexora**



**HARIRAM.J**



**SRI HARI.M**



**SWAMI RAJ.C**

Mr.S.RAGHUVARAN  
DEPT.PLACEMENT INCHARGE

Dr.H.RAMAKRISHNAN  
HOD-MECH

Dr.D.SRINIVASAN  
PRINCIPAL

Dr.S.KUPPUSAMY  
EXECUTIVE DIRECTOR

Dr.K.RAMAKRISHNAN  
CHAIRMAN

**DEPARTMENT OF MECHANICAL ENGINEERING**  
**BATCH:2021-2025**

*Heartly Congratulation*

**For placed in Madras Engineering industries**



**VEERABATHIRAN C K**



**SANTHOSH K R A**



**AHAMED A**

Mr.S.RAGHUVARAN  
DEPT.PLACEMENT INCHARGE

Dr.H.RAMAKRISHNAN  
HOD-MECH

Dr.D.SRINIVASAN  
PRINCIPAL

Dr.S.KUPPUSAMY  
EXECUTIVE DIRECTOR

Dr.K.RAMAKRISHNAN  
CHAIRMAN

**DEPARTMENT OF MECHANICAL ENGINEERING**  
**BATCH:2021-2025**

*Heartty Congratulation*

For placed in Techie NDT



**THILAGAVATHY G**



**ARIHARAN M**



**THULASI BALAN.P**

Mr.S.RAGHUVARAN  
DEPT.PLACEMENT INCHARGE

Dr.H.RAMAKRISHNAN  
HOD-MECH

Dr.D.SRINIVASAN  
PRINCIPAL

Dr.S.KUPPUSAMY  
EXECUTIVE DIRECTOR

Dr.K.RAMAKRISHNAN  
CHAIRMAN

**DEPARTMENT OF MECHANICAL ENGINEERING**  
**BATCH:2021-2025**

*Heartty Congratulation*

For placed in Perfect detailing steel services



**GOPIANAND A**



**SIVASAKTHIVELAVAN G**

Mr.S.RAGHUVARAN  
DEPT.PLACEMENT INCHARGE

Dr.H.RAMAKRISHNAN  
HOD-MECH

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**DEPARTMENT OF MECHANICAL ENGINEERING**  
**BATCH:2021-2025**

*Heartty Congratulation*

**For placed in Jeganathan Industries**



**DHANUSH S**



**SAYI PRASATH R**

Mr.S.RAGHUVARAN  
DEPT.PLACEMENT INCHARGE

Dr.H.RAMAKRISHNAN  
HOD-MECH

Dr.D.SRINIVASAN  
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**DEPARTMENT OF MECHANICAL ENGINEERING**  
**BATCH:2021-2025**

*Heartty Congratulation*

**For placed in Bajaj Engineering SASTRA**



**HARISH V**  
4th Year Mech



**HARISHANKAR S**  
4th Year Mech



**GOWTHAM M**  
4th Year Mech



**JERRY ALLWIN J**  
4th Year Mech

Mr.S.RAGHUVARAN  
DEPT.PLACEMENT INCHARGE

Dr.H.RAMAKRISHNAN  
HOD-MECH

Dr.D.SRINIVASAN  
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**DEPARTMENT OF MECHANICAL  
ENGINEERING  
BATCH:2021-2025**

*Heartily Congratulation*  
**FOR PLACED IN ZOHO**



**SIVA PRASANNA.B**

**Mr.S.RAGHUVARAN  
DEPT.PLACEMENT INCHARGE**

**Dr.H.RAMAKRISHNAN  
HOD-MECH**

**Dr.D.SRINIVASAN  
PRINCIPAL**

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BATCH:2021-2025**

*Heartty Congratulation*

**FOR PLACED IN AVASOFT**



**Thirukumaran G**

**Mr.S.RAGHUVARAN  
DEPT.PLACEMENT INCHARGE**

**Dr.H.RAMAKRISHNAN  
HOD-MECH**

**Dr.D.SRINIVASAN  
PRINCIPAL**

**Dr.S.KUPPUSAMY  
EXECUTIVE DIRECTOR**

**Dr.K.RAMAKRISHNAN  
CHAIRMAN**

## EVENTS ORGANISED:

### 1. Technical Chapters & Association Activities

#### “Career Opportunities in HVAC & its Importance”

The Chief Guest **Dr. A. Ferno Susai, Former President ISHRAE – Chennai Chapter** on 31.10.2023. The welcome speech was given by Dr. H. Ramakrishnan, HoD / Mechanical, followed by the Presidential address given by Dr. D. Srinivasan, The Principal KRCE. The motivational address given by Dr. A. Ferno Susai, Former President ISHRAE – Chennai Chapter. Previous academic year 2023 – 2024 Event Details given by Mr. S. Sivananthan, followed with a Seminar session. The event was coordinated by Mr. S. Sivananthan, Assistant Professor / Mech.





### “Hands on Training for Virtual Reality Module”

This academic year 2024 – 2025 we have conducted one day national level workshop on “Hands on Training for Virtual Reality Module” on 15/11/2024. The Chief Guest **Mr. S. Sivananthan, Assistant Professor, Department of Mechanical Engineering.** The welcome speech was given by Dr. H. Ramakrishnan, HoD / Mechanical, followed with the Presidential address given by Dr. D. Srinivasan, The Principal KRCE. The event was coordinated by Mr. B. Prakash, Assistant Professor / Mech.



### **“Hands on Training for Virtual Reality Module”**

This academic year 2024 – 2025 we have conducted one day national level workshop on “Hands on Training for Virtual Reality Module” on 18/11/2024. The Chief Guest **Mr. S. Sivananthan, Assistant Professor, Department of Mechanical Engineering.** The welcome speech was given by Dr. H. Ramakrishnan, HoD / Mechanical, followed with the Presidential address given by Dr. D. Srinivasan, The Principal KRCE. The event was coordinated by Mr. B. Prakash, Assistant Professor / Mech.



### **Mentoring Event: Poster Presentation of Business Plans**

The Institution Innovation Council of K. Ramakrishnan College of Engineering organized a Mentoring Event on “**Poster Presentation of Business Plans**” on 14.08.2024. It was coordinated by Dr. R.Naveenkumar, Assistant Professor/Mechanical. The event was coordinated by Dr. D. Srinivasan, Principal & President- IIC, and Mr. P.C. Santhosh Kumar, Asst. Professor/Mechanical Engineering & IIC coordinator. The presentation was held on the presence of the juries, Mr. K.C. Tamil Venthan, Director, LIFT India, Dr. M. Ravichandran, Professor/Mechanical, Dr. D.Jafrey, Assistant Professor/Mechanical.



## **Awareness about Startup & related Ecosystem support services for startup development for Mechanical Engineering**

The Institution Innovation Council of K. Ramakrishnan College of Engineering organized a workshop on “Awareness about Startup & related Ecosystem support services for startup development for Mechanical Engineering” on 07.08.2024. It was coordinated by Mr.P.C.Santhosh Kumar, Assistant professor/Mechanical. The chief guest addressed the students with his practical experience and motivated the students how to do startup. The event was coordinated by Dr. D. Srinivasan, Principal & President- IIC, and Dr. R. Naveenkumar, Asst. Professor/Mechanical Engineering & IIC coordinator.



**Organized Five Days Value Added Course & Hands on Training on “Non-Destructive Testing” for III year students in the month of March 2025 and the Chief Guest was Mr. M. Madheshwaran Managing Director, TECHIE Trichy, Co-ordinated by Mr. N. Karthikeyan & Mr. B. Prakash AP/MECH**



**Organized a Two day National Workshop titled on Gameathon VR 101 Chief Guest by S.Sivananthan AP/Mech on 6th & 7th March 2025 Co-ordinated by Mr. B.Prakash AP/MECH.**



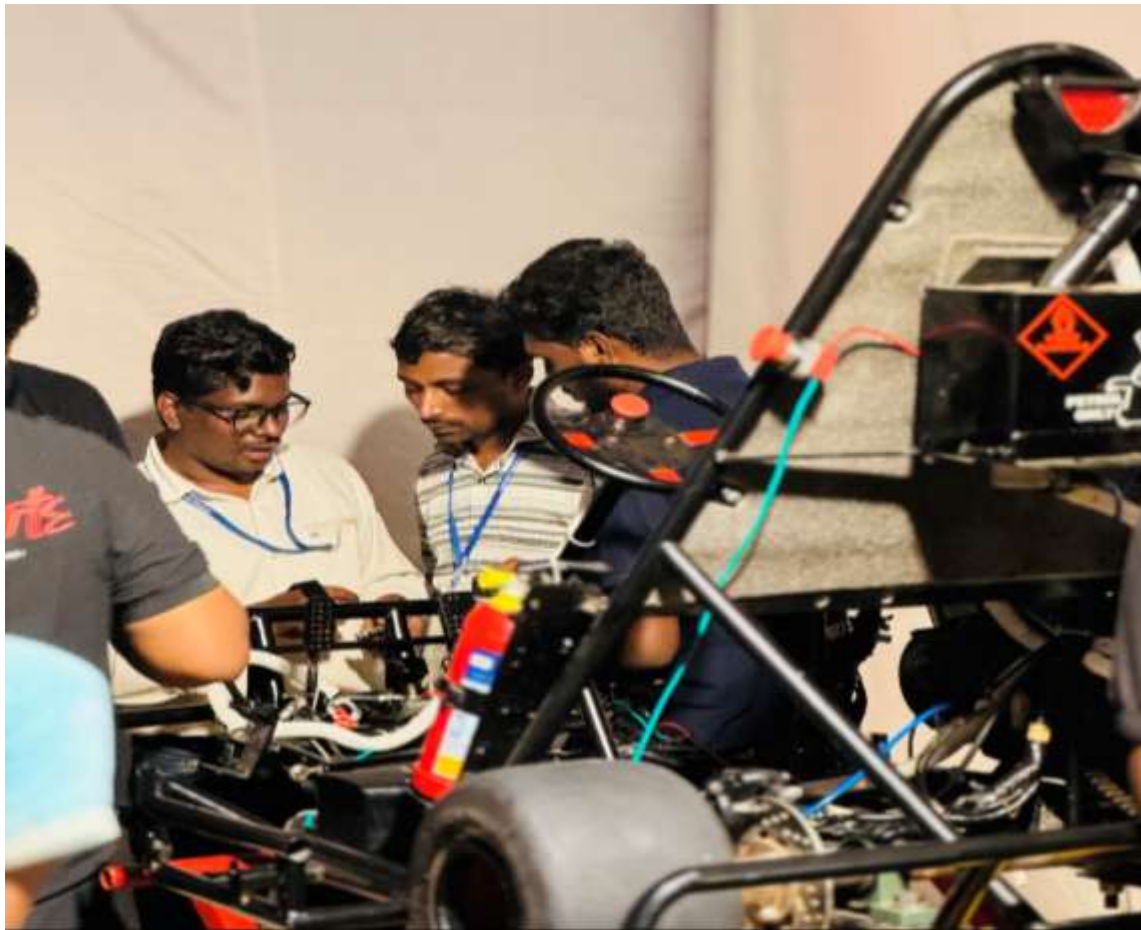
## SAE Team Participation Events Photos



The Team “**TN45 Motorsports**” had participated and secured overall 5th position in the event of Indian Karting Race 2024 at Buddh International Circuit / galgotias University, Greater Noida, from 5th to 11th October 2024.



The Team “TN45 Motorsports” had participated in the event of Go Kart Design Challenge (GKDC) at Kari Motor Speedway, Coimbatore from 19<sup>th</sup> to 23<sup>rd</sup> October 2024.











## MSME Champions Scheme



Jaanagi R P, Deva R of IV year Mechanical had selected in MSME Idea Hackathon 3.0 sanctioned the amount of 13.5 Lakhs for the invention entitled of **Smart Painting Technology** under the Mentorshi of **Mr. M. Manimaran AP / Mech.**

## Smart India Hackathon



## NPTEL Cleared Students



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**BATCH:2022-2026**  
*Heartly Congratulation*  
**FOR SUCCESSFULLY COMPLETED THE NPTEL COURSE DURING 2024-2025**

swayam NPTEL

					
<b>KAMALESH.N</b>	<b>KARPAGA HARISH.S</b>	<b>KARTHICK.J</b>	<b>MAULISWAR.E</b>		
Mr.M.MANIMARAN CLASS ADVISOR	Mr.N.KARTHIKEYAN CLASS ADVISOR	Dr.H.RAMAKRISHNAN HOD/MECH	Dr.D.SRINIVASAN PRINCIPAL	Dr.S.KUPPUSAMY EXECUTIVE DIRECTOR	Dr.K.RAMAKRISHNAN CHAIRMAN



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swayam NPTEL

					
<b>MOHAMED KISHOSE.M</b>	<b>MOHAMED UVAIS.S</b>	<b>MURALI.R.B</b>	<b>SARVESHWARAN.H</b>		
Mr.M.MANIMARAN CLASS ADVISOR	Mr.N.KARTHIKEYAN CLASS ADVISOR	Dr.H.RAMAKRISHNAN HOD/MECH	Dr.D.SRINIVASAN PRINCIPAL	Dr.S.KUPPUSAMY EXECUTIVE DIRECTOR	Dr.K.RAMAKRISHNAN CHAIRMAN



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**SUNDHARAMOORTHY.R**



**VISHAAL RAJ.K.R**



**HARIKISHORE.R**

Mr.M.MANIMARAN  
CLASS ADVISOR

Mr.N.KARTHIKEYAN  
CLASS ADVISOR

Dr.H.RAMAKRISHNAN  
HOD/MECH

Dr.D.SRINIVASAN  
PRINCIPAL

Dr.S.KUPPUSAMY  
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**ARUN.R**



**BALAKARTHIKEYAN.J**



**ILAVAENIL.M**



**JEROM SEBASTIAN.P**

Mr.M.MANIMARAN  
CLASS ADVISOR

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