RAJEEV INSTITUTE OF TECHNOLOGY
Plot 1-D, Growth Center, B-M Bypass Road, Hassan, Karnataka - 573201.

MERIT

DEPARTMENT OF MECHANICAL ENGINEERING



MESSAGE FROM THE DESK



Dr. KULDEEP B. *B.E, M.Tech, PhD*
Head of the Department, Mechanical Engg.

The Department of Mechanical Engineering was established in 2008 to offer the Bachelor of Engineering programme. The department boasts excellent educational facilities and is cultivating a dynamic learning environment supported by highly qualified, dedicated, and experienced faculty.

Mechanical engineering is a vast and ever-evolving field that focuses on the design, development, and operation of mechanical systems and machinery. This discipline plays a crucial role in various sectors, including automotive, aerospace, energy, manufacturing, and robotics.

To stay at the forefront of industry advancements, the department is equipped with cutting-edge laboratories and workshops, featuring the latest instruments and machinery. These facilities include well-appointed classrooms, a machine shop, a workshop, and computer labs.

The department has established a 3D Printing Centre of Excellence in collaboration with CDAC-Hyderabad under NASSCOM's Futureskills Prime initiative. This centre focuses on research, development, and training in 3D printing technologies and applications.

To expand students' knowledge, the department regularly hosts technical events such as industry visits, workshops, , talks, and seminars, providing insights into the latest technological advancements.

DEPARTMENT ACTIVITIES

The Department of Mechanical Engineering organized a 5 days Faculty Development Program on “Product Design Engineering using Fusion 360” in association with ICT Academy, Chennai.

Mr. S. N. Deviyaprasanth, Lead- Technical Training, ICT Academy, Chennai has shared his insights about the usage of Fusion 360 software for product designing. Hands on exercises were done related to part modeling, advanced modeling, assembly modeling, simulation and so on for the faculties from 27th May 2024 to 31st May 2024.



FDP ON “PRODUCT DESIGN ENGINEERING USING FUSION 360” IN ASSOCIATION WITH ICT ACADEMY, CHENNAI.

FACULTY ACHIEVEMENTS

1. Mr. Anand H R has been awarded Ph.D Degree by VTU, Belagavi on June 2024.
2. Mr. Vinay L, Mr. Hanoca P, Mr. Pavan Kumar K K, Mr. Rajeev K T, Mr. Rajashekar G Sannamani, the faculties of mechanical engineering department have received the Patent on the design of “ARTIFICIAL INTELLIGENCE BASED SMART DEFIBRILLATOR MACHINE”.
3. Mr. Vinay L and Mr. Hanoca P, have organized a 5 days Faculty Development Program on “Product Design Engineering using Fusion 360” in association with ICT Academy, Chennai.

DEPARTMENT VISION

To become center of excellence in education and research, providing students with a well-rounded education in mechanical engineering for the betterment of society.

DEPARTMENT MISSION

- To provide the students with the fundamental knowledge necessary for a successful career in mechanical engineering.
- To empower students for higher education and active research development to contribute to the engineering profession and society.

PSO

The Department of Mechanical Engineering was established in 2008 with an intake of 60 students for the Bachelor of Engineering course. The department has excellent education facilities. With dedicated, highly qualified, and experienced faculty, it creates an environment conducive to learning. Keeping itself up to date with the latest development trends in the field, the laboratories and workshops are well equipped with modern instruments and machineries. The department has spacious and well-furnished classrooms, workshop, machine shop, and computer laboratories.

PEO

- To provide the students with the fundamental knowledge necessary for a successful career in mechanical engineering.
- To empower students for higher education and active research development to contribute to the engineering profession and society.

FACULTY REPRESENTATIONS

1. Dr. Kuldeep B, Dr. Anand H R, Mr. Dharanesh O H, Mr. Rajeev K T, Mr. Hanoca P , have published a paper titled 'COMPOSITE NOISE BARRIER: A STUDY ON IMPACT OF VARIOUS SURFACE GEOMETRIES' at International Conference on SUSTAINABLE IN MATERIALS, MANUFACTURING & AUTOMATION (ICSIMMA2024) Organized by Department of Mechanical Engineering, Kalasalingam Academy of Research and Education, on April 17th & 18th 2024.
2. Dr. Kuldeep B, Dr. Anand H R, Vinay L, Pavan Kumar K K & Rajashekhara G Sannamani, have published a paper titled 'ATMOSPHERIC WATER GENERATOR' at International Conference on SUSTAINABLE IN MATERIALS, MANUFACTURING & AUTOMATION (ICSIMMA2024) Organized by Department of Mechanical Engineering, Kalasalingam Academy of Research and Education, on April 17th & 18th 2024.
3. Dr. Anand HR, Assistant Professor, Department of Mechanical Engineering has published a paper on 'Influence of Water Absorption on Mechanical and Morphological Behaviour of Roystonea-Regia/Banana Hybrid Polyester Composites' in the journal of 'Applied Science and Engineering Progress', Vol. 17, No. 1, 2024, 7074

PATENT REGISTRATION



INTELLECTUAL PROPERTY INDIA

ORIGINAL
क्रम सं/ Serial No. : 164100

पेटेंट कार्यालय, भारत सरकार | The Patent Office, Government Of India

डिजाइन के पंजीकरण का प्रमाण पत्र | Certificate of Registration of Design

डिजाइन सं. / Design No. : 406684-001

तारीख / Date : 05/02/2024

पारस्परिकता तारीख / Reciprocity Date* :

देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो *ARTIFICIAL INTELLIGENCE BASED SMART DEFIBRILLATOR MACHINE* से संबंधित है, का पंजीकरण, श्रेणी 24-01 में 1.Rajeev Institute Of Technology 2. Vinay L 3.Hanoca P 4.Pavan Kumar K K 5.Rajeev K T 6.Rajashekar G Sannamani के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 24-01 in respect of the application of such design to *ARTIFICIAL INTELLIGENCE BASED SMART DEFIBRILLATOR MACHINE* in the name of 1.Rajeev Institute Of Technology 2. Vinay L 3.Hanoca P 4.Pavan Kumar K K 5.Rajeev K T 6.Rajashekar G Sannamani.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्यधीन प्रावधानों के अनुसरण में।
In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

जारी करने की तिथि / Date of Issue : 10/04/2024

Controller General of Patents, Designs and Trade Marks

*पारस्परिकता तारीख (यदि कोई हो) जिसकी अनुमति दी गई है तथा देश का नाम। डिजाइन का आवश्यकता पंजीकरण की तारीख से एक वर्ष के लिए होगा जिसका विस्तार, अधिनियम एवं नियम के नियमों के अधीन, पाँच वर्ष की अतिरिक्त अवधि के लिए किया जा सकेगा। इस प्रमाण पत्र का उपयोग विधिक कार्यवाहियों अथवा विदेश में पंजीकरण प्राप्त करने के लिए नहीं हो सकता है।

The reciprocity date (if any) which has been allowed and the name of the country. Copyright in the design will subsist for ten years from the date of Registration, and may under the terms of the Act and Rules, be extended for a further period of five years. This Certificate is not for use in legal proceedings or for obtaining registration abroad.

We are excited to announce the successful patent registration of the Artificial Intelligence-Based Smart Defibrillator Machine, under class 24-01. The patent, granted as of the specified date, recognizes the innovative contributions of Mr. Vinay L, Mr. Hanoca P, Mr. PavanKumar KK, Mr. Rajeev K T, and Mr. Rajashekar G. Sannamani. This cutting-edge technology integrates AI to enhance the performance and accuracy of defibrillation, paving the way for smarter, more efficient healthcare solutions. This achievement marks a significant milestone in the field of medical device innovation.

My childhood dream was to study mechanical engineering. After reading 'The Mysterious Island' – which I read 25 times as a boy – I thought that was the best thing a person could do. The engineer in the book knows mechanics and physics, and he creates a whole way of life on the island out of nothing. I wanted to be like that.

– Dan Shechtma

STUDENT ACHIEVEMENTS







Sachin R and Supreeth AS of 7th semster has represented the Department of Mechanical Engineering, RIT, Hassan in the Grand Finale of "India Design Week - 2024", at Sri Sairam Engineering College, Chennai.

STUDENT SKILL DEVELOPMENT PROGRAM

TRAINING ON "EMPLOYABILITY SKILLS"



The Training Program for 7th-semester students focuses on enhancing employability skills, with emphasis on Aptitude and Communication. It bridges the gap between academic knowledge and industry-required skills, preparing students for placement interviews and assessments, and equipping them for success in the competitive job market.

"DOMAIN SPECIFIC SKILLS ON CATIA AND ANSYS WORKBENCH"

This program provides students with practical, industry-relevant skills in design and simulation tools, preparing them for careers in engineering and design. By mastering software like CATIA and ANSYS, students gain valuable experience for industries such as automotive, aerospace, and manufacturing. It enhances their technical expertise, boosting employability in various engineering roles.



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