



RAJADHANI INSTITUTE OF ENGINEERING AND TECHNOLOGY

AUTONOMOUS

Rajadhani Hills, Nagaroor, Attingal, Thiruvananthapuram, Kerala, India 695102.

www.riet.edu.in



Voice of ACME

DEPARTMENT OF MECHANICAL ENGINEERING

Established in 2009 with an initial intake of 60 students, the Department of Mechanical Engineering has consistently maintained a position of excellence among the engineering disciplines affiliated with APJ Abdul Kalam Technological University (KTU). The department offers a comprehensive Bachelor's degree program in Mechanical Engineering that continues to attract highly meritorious students. A team of dedicated and experienced faculty members fosters a vibrant academic and research environment, ensuring continued growth and innovation.

The department is equipped with advanced infrastructure, including modern laboratories, well-designed seminar and drawing halls, and a dedicated departmental library, all supporting effective teaching and learning. To enhance professional engagement, the department hosts both student and faculty chapters of the Indian Society for Technical Education (ISTE) and the SAE India Collegiate Club. The curriculum and activities are designed to enhance students' employability across diverse industry sectors. In addition, the department has signed Memorandum of Understanding (MoUs) with leading organizations such as Inter CAD Systems Pvt. Ltd., Barola Technologies, Taneja Aerospace and Aviation Limited, Barola Aerospots, CADD Centre, and MAKS Automations Pvt. Ltd. These collaborations aim to provide students with valuable exposure to industrial practices and emerging technologies, bridging the gap between academic learning and professional applications.

Institute Vision

Groom the Youth as Innovative, Creative and Empathetic Technologists, Hospitality Professionals, Managers and Entrepreneurs for Social Transformation.

Institute Mission

- M1 : To encourage holistic development of students with well balanced curricular, co-curricular and extra-curricular activities.
- M2 : To promote ethical and value-oriented teaching, research and consultancy among faculty and students for social transformation.
- M3: To interact with industrial organizations, governmental agencies, engineering, hospitality, and business enterprises for collaborative learning.

Department Vision

To be a preferred destination to produce technocrats in Mechanical Engineering fostering academic excellence, research, industry readiness with human values for social transformation.

Department Mission

- M1 : To impart quality education through activity based learning and leading -edge technology.
- M2 : To provide holistic education inculcated with research activities, human and ethical values, societal and industrial commitment, personality development and team spirit
- M3 : To foster strong industry- institute interaction to develop employable skills and enrich experiential learning through capstone projects.



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Program Specific Outcomes (PSOs)

- Mechanical Design – Capable to Design Mechanical Systems with updated software tools and equipment's/Processes to meet desired Specifications and requirements within realistic constraints to solve real time mechanical/societal problems.
- Managing Efficiency - Develop Capabilities to address the challenges in the Energy Sector and Develop Energy Efficient Systems.
- Industrial Application - Manage the Resources in an Organization more effectively and efficiently in the Dynamic Industrial Environment.

Program Educational Objectives (PEOs)

- PEO₁ : Graduate shall have strong core and interdisciplinary knowledge, skills and professional accomplishment towards employment in allied industries, higher studies and research.
- PEO₂ : Graduates shall utilize latest tools and rapidly changing technologies to analyze, design and develop sustainable systems, testing and manufacturing for real life applications
- PEO₃ : Graduates shall practice multidisciplinary approach, ethics, good communication, team spirit to evolve as competent technocrats and entrepreneurs.



AURIFEROUS CHAMBER OF MECHANICAL ENGINEERING

Auriferous Chamber for Mechanical Engineering ACME is a prestigious hub at our college dedicated to fostering innovation and excellence in mechanical engineering. It serves as a collaborative platform connecting alumni, faculty, and students to share knowledge, resources, and experiences. ACME provides opportunities for mentorship, industry engagement, and cutting-edge projects, bridging the gap between academia and industry. It stands as a testament to our commitment to advancing mechanical engineering and building a thriving community of engineering professionals.

Major Internships, Projects





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PROGRAM OUTCOMES

1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety and the environmental considerations.
4. Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data and synthesis of the information to provide valid conclusions.
5. Modern tool usage: Create, select and apply appropriate techniques, resources and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts and demonstrate the knowledge of and need for sustainable development.
8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. Individual and team work: Function effectively as an individual and as a member or leader in diverse teams and in multidisciplinary settings.
10. Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations and give and receive clear instructions.
11. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. Life-long learning: Recognize the need for and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.



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Department Programmes



The Department of Mechanical Engineering successfully organized a comprehensive training programme titled “Fundamentals of Industrial Piping and Job Opportunities” on 28/01/2025, conducted from 11:00 A.M. to 12:45 P.M., with the objective of providing students with fundamental knowledge of industrial piping systems and creating awareness about related career opportunities in the industry



BIM enabled facility management by CORE institute of technology 10/03/2025 A technical session on BIM Enabled Facility Management was conducted by CORE Institute of Technology on 10/03/2025 at Rajadhani Institute of Engineering and Technology.

The program focused on the application of Building Information Modeling (BIM) in facility management, highlighting how digital models support efficient operation, maintenance planning, asset tracking, and lifecycle management of buildings. The session provided practical insights into modern FM practices and the role of BIM in improving sustainability and cost efficiency.



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Department Programmes



The Department of Mechanical Engineering successfully organized a comprehensive training programme titled "Enhancing Career Prospects in Occupational Health and Safety". The event took place on 11/03/2025 from 10:00 A.M. to 12:00 P.M.

The workshop on NEBOSH, which provided valuable insights into the significance of occupational health and safety and the role of NEBOSH certification in career advancement was conducted. The session was conducted by Ms. Riya S from IREZ Academy and was organized by ACME. The technical session commenced with a presentation that covered the fundamentals of NEBOSH, including the various opportunities available and the essential role of NEBOSH certification in career advancement.



The Department of Mechanical Engineering organized an expert session on 19th March 2025 by Mr. Sreyas Kumar, a certified NDT Trainer from TCHMEX, a reputed industrial training and consultancy organization. The session covered Oil and Gas Sector Overview, Quality Assurance and Quality control, Non-Destructive Testing (NDT) Techniques. The objective of the talk was to bridge the gap between academic concepts and industry requirements, providing students with insights into career opportunities and technical competencies essential in these sectors.



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The Department of Mechanical Engineering proudly organized the MECHAVOC AUTO SHOW 2025 on 14th February at the RIET College Ground, marking a significant milestone in fostering innovation and technical excellence among students. Powered by the dedicated efforts of the department, the event served as a vibrant platform for budding engineers to exhibit their passion for automobiles and cutting-edge technology. A notable highlight of the event was the positive reception it garnered from all corners.





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Farewell 2024



2021- 2025 Batch Farewell Function



2021- 2025 Batch



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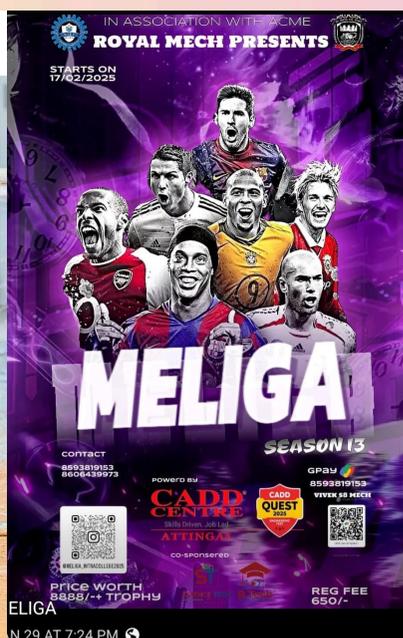
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Meliga 25

MELIGA 2K25 CHAMPIONS 🌟

@aerospania



Meliga,” the annual football tournament organized by the Mechanical Engineering Department, is one of the most anticipated sporting events on campus held from 17th February 2025. The tournament brings together students from various branches, fostering a strong sense of camaraderie, teamwork, and healthy competition. More than just a game, Meliga serves as a platform for students to showcase their talent, leadership, and sportsmanship. Meliga 2025 continued this tradition with remarkable energy, uniting the college community and celebrating the passion for sports.

Semester Toppers



Adhithyan TS with SGPA-8.26 (S7)



Vaishnav SS with SGPA-7.86 (S5)



Adhithyan B with SGPA- 8.03 (S3)



Aswin BS with SGPA - 8.29 (S1)



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Graduation Day 2025



Honours and Minor Degree holders- Kailas J K (Minor degree in Robotics and Automation Engg.), Adithyan T S (Honors Degree in Mechanical Engineering), Deepak Krishna U (Minor Degree in Robotics and Automation Engg.)



Congratulations to the 2025 graduates of the Department of Mechanical Engineering at Rajadhani Institute of Engineering and Technology on their successful convocation ceremony held on May 25, 2025.





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Department Programmes



The Department of Mechanical Engineering, RIET, organised a six-day hands-on workshop on SOLIDWORKS from 9th to 14th June 2025 at the CAD Laboratory. The workshop was conducted by Mr. Jithin Prasanth, an experienced CAD Trainer from CADD Centre, with the objective of strengthening students' proficiency in 3D modelling, design automation, and engineering visualization.

PAPER PUBLICATION BY STUDENTS

- Sidharth S Nair, 'Design and fabrication of a low-cost reverse trike with hybrid drive mechanism', International Journal of Research and Analytical Reviews (IJRAR), Volume 12, 708-713, ISSN: 2349-5138, 2025
- Adithyan T S, 'Experimental investigation of TIG-welded Aluminium 7075 joints: weld application & thermal properties', Strad Research, Volume 12, 243-260, ISSN: 0039-2049, 2025.
- Ananda Krishna S, 'Development of an IOT-enabled fuel monitoring & alert system' International Journal of Research and Analytical Reviews (IJRAR), Volume 12, 655-664, ISSN: 2349-5138, 2025
- Jerin Jose, 'Innovation in Semi-Automated Floor Cleaning: Design and Prototype Development' Strad Research, Volume 12, 234-242, ISSN: 0039-2049, 2025.
- Anuvind S S, 'Design and Integration of a semi- autonomous robot for agricultural mechanization' International Journal of Research and Analytical Reviews (IJRAR), Volume 12, 556-563, ISSN: 2349-5138, 2025.
- Kailas J K, 'Harnessing human power: a sustainable energy generation system using fitness' equipment International Journal of Research and Analytical Reviews (IJRAR), Volume 12, 227-233, ISSN: 2349-5138, 2025.
- Jeevan P R, 'Design optimization and implementation of a maglev wind turbine prototype', High Technology Letters, Volume 31, 373-382, ISSN: 1006-6748, 2025.



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CONFERENCE PRESENTATION BY STUDENTS

1. Adithyan T.S, 'Stress unviold: Comparative ANSYS study of welded and unwelded Aluminium', International Conference on Engineering and Scientific Innovations 2025, Universal College of Engineering, Tirunelveli on 09/05/2025.
2. Aswin Raj, 'Stress unviold: Comparative ANSYS study of welded and unwelded Aluminium', International Conference on Engineering and Scientific Innovations 2025, Universal College of Engineering, Tirunelveli on 09/05/2025.
3. Akshara M.S, 'Stress unviold: Comparative ANSYS study of welded and unwelded Aluminium', International Conference on Engineering and Scientific Innovations 2025, Universal College of Engineering, Tirunelveli on 09/05/2025.
4. Ananda Krishna S, 'Railway line crack detector', International Conference on Engineering and Scientific Innovations 2025, Universal College of Engineering, Tirunelveli on 09/05/2025.
5. Likhith J, 'Conversion of mechanical energy to electrical energy using wrist curl machine', International Conference on Engineering and Scientific Innovations 2025, Universal College of Engineering, Tirunelveli on 09/05/2025.
6. Kailas J K, 'Conversion of mechanical energy to electrical energy using wrist curl machine', International Conference on Engineering and Scientific Innovations 2025, Universal College of Engineering, Tirunelveli on 09/05/2025.
7. Bharathsethulal, 'Conversion of mechanical energy to electrical energy using wrist curl machine', International Conference on Engineering and Scientific Innovations 2025, Universal College of Engineering, Tirunelveli on 09/05/2025.
8. S Sivachaithanyaji, 'Design & fabrication of reverse hybrid trike', International Conference on Engineering and Scientific Innovations 2025, Universal College of Engineering, Tirunelveli on 09/05/2025.
9. Adersh P B, 'Design & fabrication of reverse hybrid trike', International Conference on Engineering and Scientific Innovations 2025, Universal College of Engineering, Tirunelveli on 09/05/2025.
10. Sidharth S Nair International Conference on Engineering and Scientific Innovations 2025, Universal College of Engineering, Tirunelveli Design & fabrication of reverse hybrid trike 09/05/2025



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PAPER PUBLICATION BY FACULTIES

- P Saravana Kumar, H Vinoth Kumar, P Pramerla, Bindu S S, G Saveetha, Nellore Manoj Kumar, Avinash Kumar, M Mathiyarasi “Enhanced Mechanical and tribological performance of Magnesium-Boron Carbide composites fabricated via stir casting for light weight structural applications”, Journal of Polymer and Composites.
- Dr. Bindu S S, “Enhanced Mechanical and Tribological Performance of Magnesium-Boron Carbide Composites Fabricated via Stir Casting for Light Weight Structural Applications”, Journal of Polymer and Composites, 13, 29-38 (2025): 2321-2810.
- Dr. Bindu S S, “Impact Analysis of Femoral Implant of Injured Human Knee Using Finite Element Analysis”, American Journal of Psychiatric rehabilitation, 14, 648-656 (2025): 1548-7768.
- Dr. Bindu S S, “Design and Fabrication of a Low-Cost Reverse Trike with Hybrid Drive Mechanism”, International Journal of Research and Analytical Reviews (IJRAR), 12, 708-713 (2025): 2349-5138.
- Dr. Bindu S S, “Experimental Investigation of TIG-Welded Aluminium 7075 joints: Weld Application & Thermal Properties”, Strad Research, 12, 243-260 (2025): 0039-2049.
- Dr. Bindu S S, “Development of an IOT-enabled Fuel Monitoring & Alert System”, International Journal of Research and Analytical Reviews (IJRAR), 12, 655-664 (2025) : 2349-5138.
- Manoj A, “Innovation in Semi-Automated Floor Cleaning: Design and Prototype Development”, Strad Research, 12, 234-242 (2025): 0039-2049.
- Manoj A, “Impact Analysis of Femoral Implant of Injured Human Knee using Finite Element Analysis”, American Journal of Psychiatric Rehabilitation, 14, 648-656 (2025): 1548-7768.
- Manoj A, “Development of an IOT-Enabled Fuel Monitoring & Alert System, International”, Journal of Research and Analytical Reviews (IJRAR), 12, 655-664 (2025): 2349-5138.
- Krishnakumar K, “Impact Analysis of Femoral Implant of Injured Human Knee Using Finite Element Analysis”, American Journal of Psychiatric rehabilitation, 14, 648-656 (2025): 1548-7768.
- Krishnakumar K, “Experimental Investigation of TIG-welded Aluminium 7075 joints: Weld Application & Thermal Properties”, Strad Research, 12, 243-260 (2025): 0039-2049.
- Krishnakumar K, “Development of an IOT-Enabled Fuel Monitoring & Alert System”, International Journal of Research and Analytical Reviews (IJRAR), 12, 655-664 (2025): 2349-5138.
- Niju V S, “Impact Analysis of Femoral Implant of Injured Human Knee Using Finite Element Analysis”, American Journal of Psychiatric rehabilitation, 14, 648-656 (2025): 1548-7768
- Niju V S, “Design Optimization and Implementation of a Maglev Wind Turbine Prototype”, High Technology Letters, 31, 373-382 (2025): 1006-6748
- Niju V S, “Design and Integration of a Semi-Autonomous Robot for Agricultural Mechanization”, International Journal of Research and Analytical Reviews (IJRAR), 12, 556-563 (2025): 2349-5138



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CONFERENCE PUBLICATION BY FACULTIES

- Dr. Bindu S S, has presented a paper titled “Experimental Investigation of TIG Welded Aluminium 7075 Joints: Weld Applications; Thermal Properties” in the International Conference on Engineering and Scientific Innovations 2025 held at Universal College of Engineering, Tirunelveli on 09/05/2025.
- Mr. Krishnakumar K, has presented a paper titled “Experimental Investigation of TIG Welded Aluminium 7075 Joints: Weld Applications; Thermal Properties” in the International Conference on Engineering and Scientific Innovations 2025 held at Universal College of Engineering, Tirunelveli on 09/05/2025.
- Mr. Joe Jeba Rajan K, has presented a paper titled “Harnessing Human Power: A Sustainable Energy Generation System Using Fitness Equipment” in the International Conference on Engineering and Scientific Innovations 2025 held at Universal College of Engineering, Tirunelveli on 09/05/2025.
- Mr. Sree Raj M P, has presented a paper titled “Harnessing Human Power: A Sustainable Energy Generation System Using Fitness Equipment” in the International Conference on Engineering and Scientific Innovations 2025 held at Universal College of Engineering, Tirunelveli on 09/05/2025.
- Mr. Manoj A, has presented a paper titled “Design and Fabrication of Semiautomatic Floor Cleaning Machine” in the International Conference on Engineering and Scientific Innovations 2025 held at Universal College of Engineering, Tirunelveli on 09/05/2025.
- Mr. Sree Mahesh M P, has presented a paper titled “Design and Fabrication of Low Cost Reverse Trike with Hybrid Drive Mechanism” in the International Conference on Engineering and Scientific Innovations 2025 held at Universal College of Engineering, Tirunelveli on 09/05/2025.
- Mr. Vijil J, has presented a paper titled “Design of an Automated Fuel Monitoring System for Vehicles” in the International Conference on Engineering and Scientific Innovations 2025 held at Universal College of Engineering, Tirunelveli on 09/05/2025.
- Mr. Niju V S, has presented a paper titled “Design and Integration of a Semiautomatic Robot For Agricultural Mechanization” in the International Conference on Engineering and Scientific Innovations 2025 held at Universal College of Engineering, Tirunelveli on 09/05/2025.
- Mr. Amal J Anil, has presented a paper titled “Design Optimization and Implementation of a MAGLEV Wind Turbine Prototype” in the International Conference on Engineering and Scientific Innovations 2025 held at Universal College of Engineering, Tirunelveli on 09/05/2025.
- Mr. Ullas S, has presented a paper titled “Design of an Automated Fuel Monitoring System for Vehicles” in the International Conference on Engineering and Scientific Innovations 2025 held at Universal College of Engineering, Tirunelveli on 09/05/2025.
- Mr. Sourav R Vimal, has presented a paper titled “Design and Fabrication of Low Cost Reverse Trike With Hybrid Drive Mechanism” in the International Conference on Engineering and Scientific Innovations 2025 held at Universal College of Engineering, Tirunelveli on 09/05/2025.



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Faculty Achievements

Department of Mechanical Engineering
Congratulations

Dr.Bindu.S.S Dr.Rajkumar Easwarapillai Sree Raj MP
Krishna kumar. K Aswin.S

Text Book Publication
Fundamentals of Engineering Graphics

Department of Mechanical Engineering
Congratulations

Dr.Rajkumar Easwara pillai Aswin. S

Text Book Publication
Computer Aided Fixture Design

The Department of Mechanical Engineering congratulates its faculty members on the successful publication of the textbooks “Fundamentals of Engineering Graphics” and "Computer Aided Fixture Design". This achievement reflects the department’s strong academic culture and commitment to quality engineering education for Engineering students. The publication by Rajadhani Institute of Engineering and Technology highlights the institution’s contribution to technical learning and research excellence.

Research Paper Publication
Celebrating Research Excellence

Dr. Bindu S. S
Associate professor (H.O.D)
Department of Mechanical Engineering

Title - “ Enhanced Mechanical and Tribological Performance of Magnesium–Boron Carbide Composites Fabricated via Stir Casting for Lightweight Structural Applications ” Indexing: ESCI, Publisher: STM Journals

Abstract - “This study fabricated magnesium-B4C composites. B₄C enhanced hardness, tensile strength, and wear. Optimal mechanical strength was at 6 wt % B₄C, and 9 wt % B₄C for wear resistance. Demonstrates potential for lightweight uses.”

Faculty Spotlight

The Department of Mechanical Engineering proudly congratulates Dr. Bindu S. S, Associate Professor and HOD, on her successful research paper publication. Her work on magnesium–boron carbide composites highlights significant advancements in mechanical and tribological performance for lightweight structural applications. This achievement reflects the department’s strong commitment to research excellence and innovation.



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Faculty Achievements

DEPARTMENT OF MECHANICAL ENGINEERING

Congratulations On
TEXT BOOK PUBLICATION
FUNDAMENTALS OF ROBOTICS

ABOUT THE AUTHOR

- Dr Rajkumar Easwarapillai, Professor
- Dr Bindu S S (HOD), Associate Professor
- Mrs Afna Shereef, Assistant Professor
- Mr. Manoj A, Associate Professor
- Mr. Sree Raj M P, Assistant Professor
- Mr. Joe Jeba Rajan K, Assistant Professor
- Mr. Sree Mahesh M P, Assistant Professor

Celebrating Excellence in Research
CONGRATULATIONS ON YOUR PATENT GRANT

Recognizing the groundbreaking work on:
SENSOR-BASED MONITOR MOUNT BRACKET
Design Number: 476401-001
Registration Date: 10/10/2025

DEPARTMENT OF MECHANICAL ENGINEERING

Congratulations!
FOR PAPER PRESENTATION

DR RAJKUMAR EASWARA PILLAI
(Professor)
Department of Mechanical Engineering

JOURNAL OF CANCER THERAPEUTICS AND IMMUNOTHERAPY

Title: A machine learning approach for colorectal polyp detection, density analysis, and Cancer risk prediction using CVS-LBP-MRF model

DEPARTMENT OF MECHANICAL ENGINEERING

Congratulations
to Our Innovators!

Dr. Rajkumar Easwarapillai , Dr. Bindu S S (H.O.D) , Mr. Sree Raj M P, Mr. Sree Mahesh M P
Mr. Joe Jeba Rajan J, Mr. Amal J Anil, Mr. Aswin S
(Mechanical Engineering Dept.)

Design Title : Self-Leveling Wheelchair with Telescopic Limbs
Design No. : 466360-001
Date of Registration : 19 July 2025



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Faculty Achievements

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Congratulations!
Department of Mechanical Engineering

Dr. Rajkumar E
Professor

Mr. Manoj A
Assistant Professor

Mr. Sree Mahesh M P
Assistant Professor

Mr. Sree Raj M P
Assistant Professor

Congratulations on the successful publication of your book chapter
“Design And Analysis of Lower Limb Exo - Skeleton For Differently Abled Persons ”
CURRENT TRENDS IN SCIENCE, ENGINEERING & TECHNOLOGY
(Chyren Publication | ISBN: 978-93-7143-155-2)

The department also extends heartfelt congratulations to Dr. Rajkumar E, Mr. Manoj A, Mr. Sree Mahesh M P, and Mr. Sree Raj M P for their book chapter “Design and Analysis of Lower Limb Exo-Skeleton for Differently Abled Persons.” Their work highlights innovative and socially impactful engineering research, reinforcing the department’s commitment to inclusive technology and academic excellence.

This contribution demonstrates a strong integration of mechanical design, biomechanics, and assistive technology, addressing real-world challenges faced by differently abled individuals. The publication not only enhances the department’s research profile but also serves as an inspiration for students and faculty to pursue research that combines technical rigor with social responsibility. Such scholarly efforts reflect the department’s vision of leveraging engineering solutions for the betterment of society.

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Congratulations!
Department of Mechanical Engineering

Dr. Bindu S S
Associate Professor

Dr. Rajkumar E
Professor

Mr. Joe Jeba Rajan K
Assistant Professor

Congratulations on the successful publication of your book chapter
“Design optimization of Gear casing using Finite element Analysis”
CURRENT TRENDS IN SCIENCE, ENGINEERING & TECHNOLOGY
(Chyren Publication | ISBN: 978-93-7143-155-2)

The Department of Mechanical Engineering congratulates Dr. Bindu S S, Dr. Rajkumar E, and Mr. Joe Jeba Rajan K on the successful publication of their book chapter titled “Design Optimization of Gear Casing using Finite Element Analysis” in Current Trends in Science, Engineering & Technology. This achievement reflects their expertise in advanced design and analysis, contributing valuable insights to modern mechanical engineering practices.