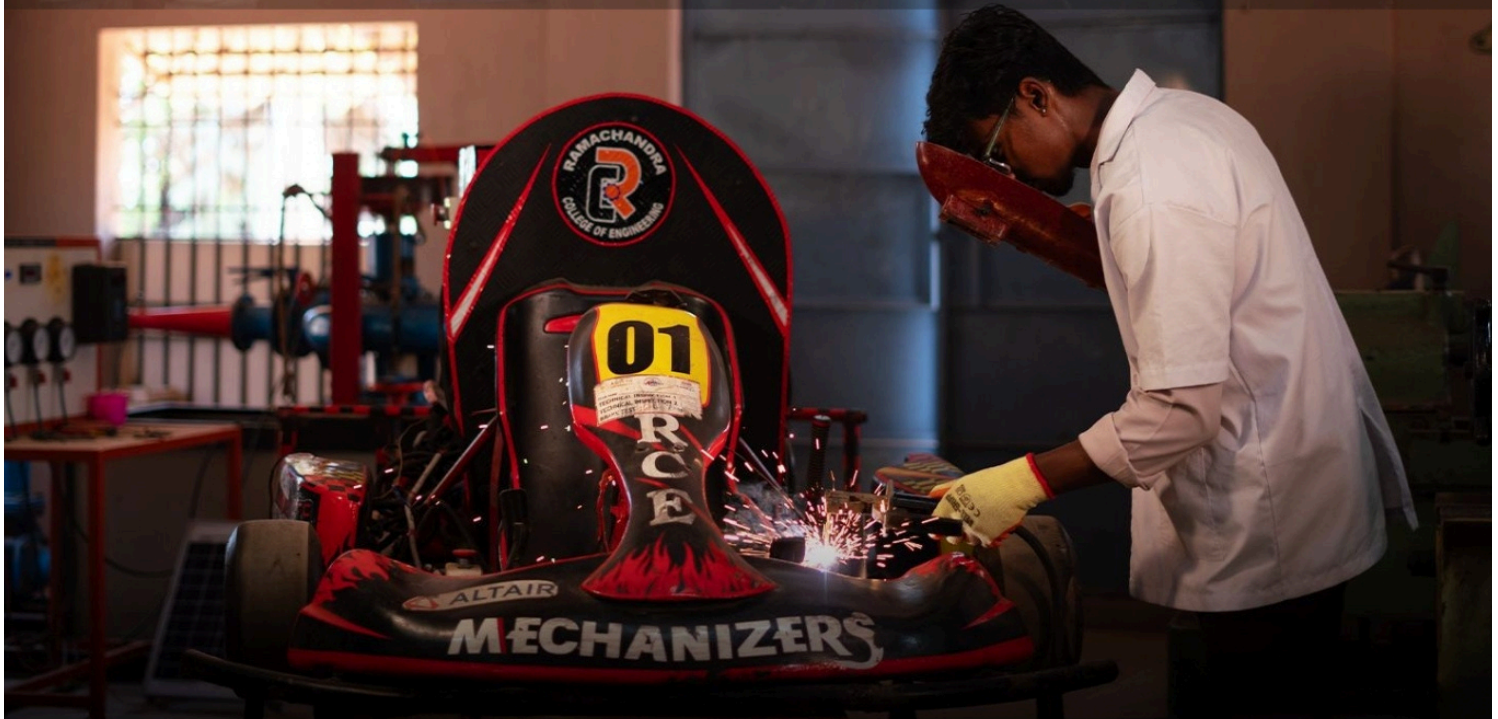




**INSTITUTION'S
INNOVATION
COUNCIL**
(Ministry of HRD Initiative)



MECHANOVATE

DRIVING INNOVATION BEYOND THE BLUEPRINT

DEPARTMENT OF MECHANICAL ENGINEERING

INSTITUTE VISION

To emerge as a “Centre of excellence” offering high quality Technical Education and Research Opportunities to learners and also develop complete personality of graduates with good communication, discipline, lifelong learning, leadership qualities, ethics and global standards there by making them professionally deft and intellectually adept to contribute for the advancement of environment and society.

INSTITUTE MISSION

- To impart high quality technical education by providing the state-of-the art infrastructure, core instruction and well experienced and qualified faculty.**
- To develop highly motivated engineering professionals with good knowledge, communication skills, human and ethical values, requisite skills and competence.**
- To produce highly successful graduates who can contribute to the profession to resolve the societal and environmental issues in the society.**

DEPARTMENT OF MECHANICAL ENGINEERING

DEPARTMENT VISION

To become a centre of excellence in the field of Mechanical Engineering by providing quality technical education and research to learners and solve social and environmental problems by developing innovative and creative skills in them and make the graduates employable along with lifelong learning, leadership and entrepreneurial skills.

DEPARTMENT MISSION

To provide a platform to the aspiring mechanical engineers to attain quality education by utilizing the state of art Infrastructure, Innovative teaching methods and eminent faculty. To empower students with innovative and research skills to attain opportunities in Mechanical Engineering field and be solution providers with a lifelong learning attitude. To equip the learners with a sense of ethical and professional responsibilities towards society and environment along with leadership and entrepreneurial skills.

DEPARTMENT OF MECHANICAL ENGINEERING

DEPARTMENT PEO'S

- PEO-1:** Gain the knowledge of principles in applied and basic engineering sciences which are necessary to formulate and solve problems related to Mechanical Engineering.
- PEO-2:** Apply analysis, design, optimization and implementation skills in order to formulate and solve Mechanical Engineering problems.
- PEO-3:** Develop the latest skills in cutting edge technologies and modern tools to simulate the real time problems without experimentation.
- PEO-4:** Develop their managerial and Entrepreneur skills, Ethical and Professional skills and Art of multi-disciplinary approach and team work to solve the problems of industry and society.
- PEO-5:** Recognize the needs of the future world of science & technology especially Mechanical Engineering and engage themselves in lifelong learning and research.

DEPARTMENT PSO'S

U.G PSOs

- PSO-1:** An ability to analyze, design and evaluate mechanical components and systems using state-of-the-art software tools needed for Mechanical Engineers as demanded by the industries from time to time.
- PSO-2:** An ability to work in operation and Maintenance plants of manufacturing and other sectors
- PSO-3:** Imbibing confidence to design, redesign, produce and reproduce the Mechanical Engineering components at any scale

P.G PSOs

- PSO 1 :** Prepare process sheets and working drawings to manufacture a machine element.
- PSO 2 :** Model, simulate, analyze and optimize mechanical systems / processes through application of software.

DEPARTMENT PO'S

PO NO

PROGRAM OUTCOME

- PO-1 Engineering Knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and Engineering specializations to the solution of complex engineering problems.
- PO-2 Problem Analysis:** Identify, Formulate, review research literature and analyze complex engineering problems to arrive at substantiated conclusions using first principles of mathematics, natural and engineering sciences.
- PO-3 Design/Development of Solutions:** Design solutions for complex engineering problems and design system components, processes to meet the specifications with consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- PO-4 Conduct Investigations of Complex Problems:** Use research-based knowledge including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- PO-5 Modern Tool Usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with and understanding of the limitations.
- PO-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
- PO-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
- PO-8 Ethics:** Apply Ethical Principles and commit to professional ethics and responsibilities and norms of the engineering practice
- PO-9 Individual and Team Work:** Function effectively as an individual and as a member or leader in teams and in multidisciplinary Settings
- PO-10 Communication:** Communicate effectively with the engineering community and with society at large. Be able to comprehend and write effective reports documentation. Make effective presentations, and give and receive clear instructions.
- PO-11 Project Management and Finance:** Demonstrate knowledge and understanding of engineering and management principles and apply these to one's own work, as a member and leader in a team. Manage projects in multidisciplinary environments.
- PO-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.

FROM THE HOD'S DESK



Welcome to the Department of Mechanical Engineering at RCEE. We began our voyage in the time of 2011 with the intake of 60 seats and it has enhanced to 120 seats in the year 2012. In the year 2014, the department expanded its horizon with a PG course in Machine Design with 24 seats intake. Over this period, we have developed our mastery of educating and research.

The Department pursues expertise based designing educational program surrounded by JNTUK and essential focal point of the educational program is to grant specialized ability to understudies with hands-on preparing in the research centers, advance their critical thinking aptitudes and development of new innovations. Department is giving chances to both the faculty and understudies to embrace new logical and innovative improvements. The Department keeps up dynamic research by urging workforce and understudies to completing synergistic and interdisciplinary research. We have cutting edge look into offices to help our scholarly projects and research. Subsidizing from different Government/Non Government bodies help us to keep up and modernize our exploration foundation. The Department has an eminent record in both instructing and research. We have a group of exceptionally qualified, experienced, developed and devoted employees who are resolved to cut a name in the top spots of the scholastic and expert world. A few employees serve on the publication sheets of national, worldwide diaries, survey specialized articles for diaries all the time and got global and national honours' in perfection in instruction and research. Our goal isn't to simply deliver experts proficient to serve their very own needs yet attempt to serve the general public with incredible worry for human qualities. I wish accomplishment to all understudies in your undertaking to go along with us on the voyage of value instruction and to have an incredible learning knowledge with my superb, cherishing and minding group. Our Department anticipates contribute in tackling the mechanical difficulties of the general public with dynamic support from all segments of the general public. I urge you to investigate our site for further subtleties like scholarly projects offered, lab and research facilities, profiles of employees, inquire about exercises, and subtleties of understudy exercises.

DEPARTMENT OF MECHANICAL ENGINEERING FACULTY

MEMBERS

NAME

DESIGNATION

EXPERIENCE

1.Dr. M. Muralidhara Rao[M.Tech,Ph.d]	Principal & Professor	25 Years
2. Dr. Bazani Shaik [M.Tech,Ph.d]	HOD& professor	15 Years
3.Mr.B.Sudhakara Rao [M.Tech,(Ph.d)]	Associate professor	12 Years
4.Dr. Raffi Mohammed [M.Tech,Ph.d]	Professor	15 Years
5.Dr.Kota.Venkateswarlu [M.Tech,Ph.d]	Associate professor	12 Years
6.Dr.K.Anand Babu [M.Tech,Ph.d]	professor	12 Years
7.Mr.KPVSR Vinay Kumar [M.Tech]	Assistant professor	10 Years
8. Mr. G. Chitti Babu [M.Tech,(Ph.d)]	Assistant professor	10 Years
9.Mr. A. Rahul Kumar [M.Tech,(Ph.d)]	Assistant professor	10 Years
10. Mr. J. Srikanth [M.Tech,(Ph.d)]	Assistant professor	8 Years
11.Mr. K. Bhavanarayana [M.Tech,(Ph.d)]	Assistant professor	11 Years
12. Mrs. P. Lakshmi kala [M.Tech]	Assistant professor	6Years
13. Mr. Y. Hemanth [M.Tech]	Assistant professor	7 Years
14. Mr. G.V. Phani Babu [M.Tech]	Assistant professor	7 Years
15. Mrs. P. Naga Sravani [M.Tech]	Assistant professor	6 Years
16. Mr. S. Suneel Kumar [M.Tech]	Assistant professor	6 Years
17.Mr. P. Bhargava Kumar [M.Tech]	Assistant professor	4 Years
18. Mrs. B. Devi Priyanka [M.Tech]	Assistant professor	5 Years
19. Mr. M. Sai Ram [M.Tech]	Assistant professor	2 Years
20. Mr. J. Ashok Kumar [M.Tech]	Assistant professor	5 Years
21. Mrs. O. Pavitra [M.Tech]	Assistant professor	6 Years



FACULTY ACHIEVEMENTS

MR. K. VENKATESWARLU AWARDED PHD



We are delighted to announce that Mr. K. Venkateswarlu, Assistant Professor in the Department of Mechanical Engineering at Ramachandra College of Engineering, has been awarded the Doctor of Philosophy (Ph.D.) degree by Pondicherry University. His research work, titled “Diagnosing Railway Wheel Condition with the Aid of Artificial Intelligence Techniques,” focuses on the application of AI-based models to improve the safety, reliability, and efficiency of railway operations.

The study explores intelligent diagnostic systems that leverage machine learning algorithms to monitor and assess the health of railway wheels, enabling timely maintenance and reducing the risk of mechanical failures. This research has significant implications for the railway industry and represents a meaningful contribution to the intersection of mechanical engineering and artificial intelligence.

Mr. Venkateswarlu’s achievement is a testament to his commitment to academic excellence and innovation. His expertise will greatly benefit students and inspire further research initiatives within the department. The Mechanical Engineering Department extends its heartfelt congratulations and wishes him continued success in his academic and professional journey.

MR. P. BHARGAV KUMAR COMPLETED QIP PROGRAM



The Department of Mechanical Engineering at Ramachandra College of Engineering proudly congratulates Mr. P. Bhargav Kumar for successfully completing the Quality Improvement Programme (QIP) in Artificial Intelligence and Data Sciences from the prestigious Indian Institute of Information Technology (IIIT) Kottayam.

This accomplishment marks a significant step in enhancing the department's academic and research capabilities in emerging technologies. Mr. Bhargav Kumar's participation in this advanced program demonstrates his dedication to continuous learning and interdisciplinary growth, which will further enrich the teaching-learning ecosystem and inspire students to explore AI-driven applications in mechanical engineering.



The knowledge and skills acquired through this QIP program will enable Mr. P. Bhargav Kumar to integrate Artificial Intelligence and Data Science techniques into mechanical engineering domains such as predictive maintenance, smart manufacturing, automation, and design optimization. His exposure to advanced tools and research methodologies at IIIT Kottayam is expected to foster innovative academic projects and collaborative research within the department. This achievement not only adds value to the faculty profile but also aligns with the institution's vision of promoting interdisciplinary excellence and future-ready education.

Best Researcher Award



The Department of Mechanical Engineering proudly congratulates Dr. Raffi Mohammad for being honored with the Best Researcher Award for the academic year 2024–25. This prestigious recognition was presented by the management of Ramachandra College of Engineering in acknowledgment of his outstanding contributions to research and innovation in the field of Mechanical Engineering.

Dr. Raffi Mohammad has consistently demonstrated excellence through his high-quality research publications, innovative projects, and commitment to advancing knowledge in core engineering domains. His dedication serves as an inspiration to both faculty and students, reinforcing the department's mission to promote a strong research culture and academic excellence.

Dr. Raffi Mohammad's research work has significantly contributed to the advancement of modern engineering solutions, addressing real-world challenges with innovative approaches. His active involvement in publishing research papers in reputed journals, guiding student research, and collaborating on interdisciplinary projects has elevated the research standards of the department. The Best Researcher Award not only celebrates his individual achievements but also reflects the department's growing emphasis on research-driven education and excellence.



The image shows a formal award certificate. On the left is a portrait of Dr. Bazani Shaik, a man with a mustache wearing a blue blazer. The text on the right reads: 'Teachers Day Awards - 2024 for Excellence in Education', 'Excellence in Research Contribution Award', 'is proudly awarded to', 'Dr. BAZANI SHAIK', 'Professor of Mechanical Engineering', 'Ramachandra College of Engineering'. Below this, it says 'This award was proudly presented by Council for Skills and Competencies (CSC)' with a note '(Registered with NITI Aayog, Government of India & ISO 9001:2015 certified organization)'. At the bottom are logos for Wadhvani Foundation, NEN (National Entrepreneurship Network), MSME (Micro, Small & Medium Enterprises), and NIIT (National Institute of Information Technology) along with the website 'www.cscindia.org.in'.

Teachers Day Awards - 2024
for Excellence in Education

COUNCIL FOR SKILLS AND COMPETENCIES
NATION BUILDING
THROUGH SKILLED YOUTH

**Excellence in Research
Contribution Award**
is proudly awarded to

Dr. BAZANI SHAIK
Professor of Mechanical Engineering
Ramachandra College of Engineering

This award was proudly presented by
Council for Skills and Competencies (CSC)
(Registered with NITI Aayog, Government of India & ISO 9001:2015 certified organization)
REGISTERED WITH, KNOWLEDGE AND TRAINING AND INTERNSHIPS PARTNER FOR

www.cscindia.org.in

WADHWANI FOUNDATION | NEN NATIONAL ENTREPRENEURSHIP NETWORK | MSME MICRO, SMALL & MEDIUM ENTERPRISES | रा.इ.सू.प्री.सं. NIIT NATIONAL INSTITUTE OF INFORMATION TECHNOLOGY

The Department of Mechanical Engineering at Ramachandra College of Engineering proudly congratulates Dr. Bazani Shaik for being honored with the “Excellence in Research Contribution Award” by the Council for Skills and Competencies. This prestigious award recognizes his outstanding contributions to research and innovation in the field of mechanical engineering.

Dr. Bazani Shaik has consistently demonstrated excellence through impactful publications, innovative projects, and active participation in academic and industrial research collaborations. His dedication to advancing knowledge and promoting research-driven education has significantly contributed to the academic growth of the department and inspired students and fellow researchers alike.

This recognition is a testament to his hard work, commitment, and scholarly achievements, and it further strengthens the department’s reputation for research excellence.

Dr. Bazani Shaik’s research spans key areas such as thermal engineering, advanced materials, energy systems, and automation technologies. His work has been published in reputed journals and presented at numerous national and international conferences. He has also contributed to multiple funded research projects, patent filings, and collaborative industrial initiatives. His mentorship has guided students and fellow researchers toward academic excellence and innovation. This award stands as a testament to his relentless pursuit of knowledge and excellence in engineering research, significantly enhancing the academic stature of the department and the institution as a whole.

BEST INNOVATION AWARD AT GLOBAL INNOVATORS CHALLENGE FOR SWARNA ANDHRA@2047



The Department of Mechanical Engineering at Ramachandra College of Engineering is proud to announce that Mr. Bhavanarayana Kotte has been honored with the Best Innovation Award at the prestigious Global Innovators Challenge for Swarna Andhra@2047, organized by the Government of Andhra Pradesh.

Mr. Bhavanarayana received this recognition for his innovative project titled “Sonic Pump”, an eco-friendly electro-mechanical agricultural water pump designed to support sustainable farming. The Sonic Pump, also referred to as a farmer-friendly solution, aims to improve irrigation efficiency while reducing environmental impact and energy consumption. This innovation has the potential to greatly benefit small and marginal farmers by offering an affordable, reliable, and energy-efficient water pumping system.

This award highlights the spirit of innovation within the department and reflects its commitment to addressing real-world challenges through engineering solutions. The department congratulates Mr. Bhavanarayana Kotte on this remarkable achievement and looks forward to further contributions from faculty and students in advancing agricultural and rural technologies.

BEST TEACHER AWARD



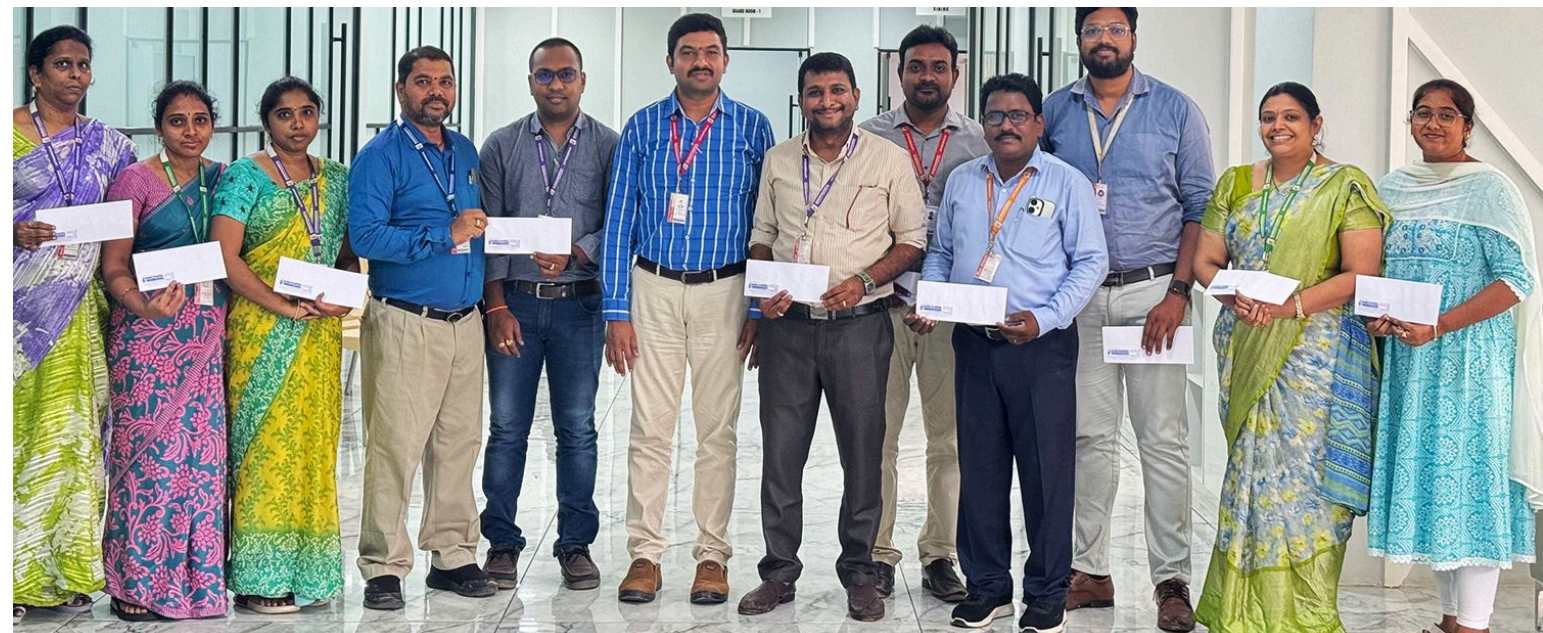
The Department of Mechanical Engineering takes immense pride in announcing that Mr. A. Rahul Kumar, Assistant Professor, has been awarded the Best Teacher Award for the academic year, in recognition of his exemplary contribution to the department. This prestigious accolade is a testament to his unwavering dedication to academic excellence, innovative teaching practices, and active involvement in departmental development.

Mr. Rahul Kumar has consistently demonstrated a passion for teaching and mentoring students, ensuring not only strong academic outcomes but also holistic growth. His ability to simplify complex engineering concepts and make learning interactive has earned him appreciation from both students and peers. He regularly integrates modern teaching aids, practical examples, and student-centered learning strategies to enhance classroom engagement.

In addition to his academic responsibilities, Mr. Rahul Kumar has played a vital role in organizing technical workshops, seminars, and student development programs. He has been instrumental in guiding final-year projects, coordinating industrial visits, and contributing to curriculum development initiatives. His efforts in improving academic standards and fostering a research-oriented mindset among students have significantly strengthened the department's profile.

This award reflects his outstanding service, leadership, and commitment to the core values of education. The department congratulates Mr. Rahul Kumar on this well-deserved honor and looks forward to his continued contributions in shaping the future of budding mechanical engineers.

RAMACHANDRA COLLEGE OF ENGINEERING (RCEE) PROUDLY HONORS OUR EXCEPTIONAL FACULTY WITH RESEARCH & DEVELOPMENT (R&D) AWARDS, RECOGNIZING THEIR DEDICATION TO INNOVATION, ACADEMIC BRILLIANCE, AND RESEARCH EXCELLENCE.



Ramachandra College of Engineering (RCEE) proudly celebrated the achievements of its outstanding faculty members by presenting them with Research & Development (R&D) Awards in recognition of their commitment to innovation, academic excellence, and impactful research. These awards highlight the faculty's significant contributions to advancing knowledge across various domains of engineering and technology.

The R&D Awards were instituted to encourage a strong research culture within the institution and to acknowledge the efforts of those who have actively engaged in publishing high-quality research papers, filing patents, securing funded projects, and participating in collaborative research initiatives.

FACULTY ACHIEVEMENTS IN RESEARCH PUBLICATIONS

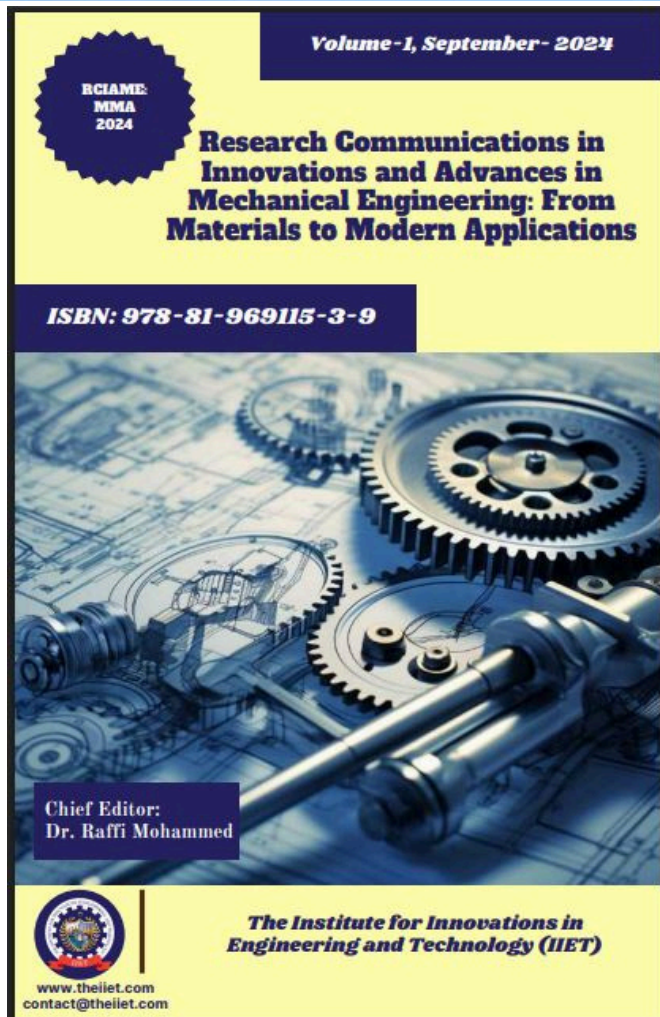
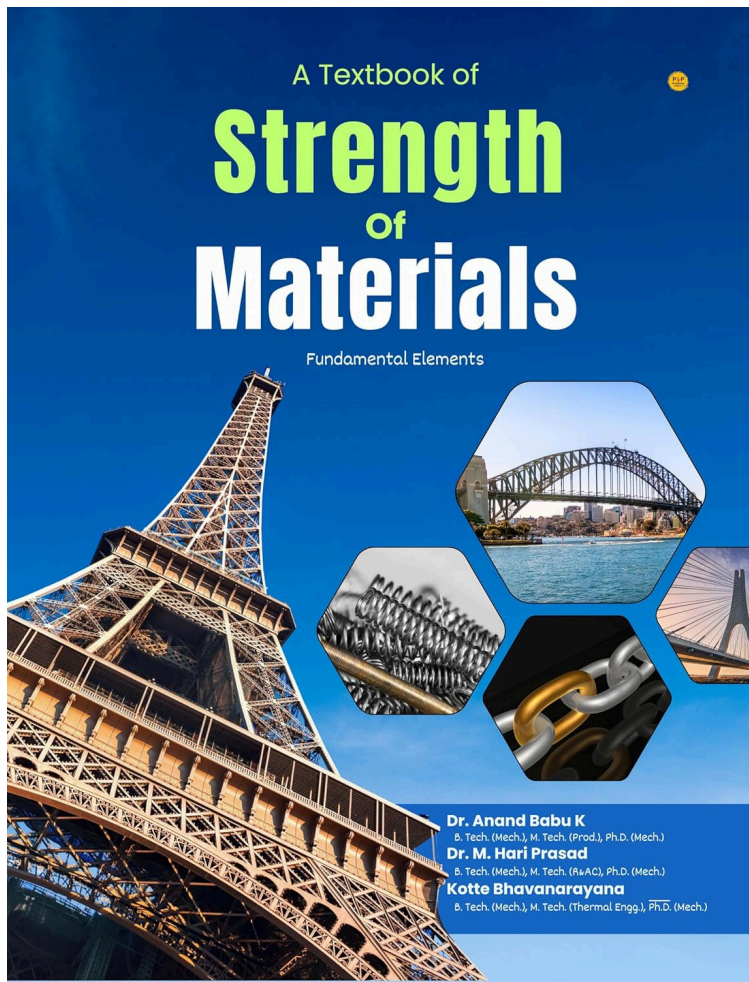
The Department of Mechanical Engineering at Ramachandra College of Engineering is proud to announce that its faculty members have collectively published 11 research papers in reputed journals indexed in Scopus, Web of Science, and UGC CARE list. These publications reflect the department's commitment to advancing knowledge in emerging areas of mechanical engineering and contributing to global research. The achievement highlights the consistent efforts of the faculty towards innovation, quality research, and academic excellence, further strengthening the department's reputation in the field of engineering education and research.

S.N	Faculty	Article	Listed In
0	Name	Title	
1	Dr. Raffi Mohammed	Investigation of the Microstructure and Mechanical Characterization of an Aluminum-12 wt% Silicon Alloy Processed using Die and Centrifugal Casting Processes	Scopus& WoS
2	Dr. Raffi Mohammed	Analysis of Abrasive Wear Characteristics in Glass Fiber Reinforced Epoxy Composites Optimization and Mechanical Property Investigation	WoS-CPCI, SCOPUS, CSA
3	Dr. Raffi Mohammed	Enhancement of Mechanical and Thermal Properties in HDPE Sisal Fiber Bio-composites An Analysis of Reinforcement Ratios and Heating Rates	WoS-CPCI, SCOPUS, CSA
4	Dr. Raffi Mohammed	Advancements and Challenges in Additive Manufacturing: Future Directions and Implications for Sustainable Engineering	SCOPUS - Q4
5	Dr. Bazani Shaik	Deep Learning-Based Image Recognition for Electronic Components Identification	SCOPUS
6	Dr. Bazani Shaik	Reinforcement Learning for Dynamic Power Management in Embedded Systems	SCOPUS
7	Dr. Bazani Shaik	Deep Learning Techniques for Fault Detection in Industrial Machinery	SCOPUS

8	Dr. Bazani Shaik	AI-Driven Circuit Optimization for Energy Efficient Electronics Design	SCOPUS
9	Dr. Bazani Shaik	AI-Driven Drug Discovery: Computational Methods and Applications	SCOPUS
10	Dr. Bazani Shaik	Deep Learning Techniques for Human Resource Management Optimization	SCOPUS
11	Dr. Bazani Shaik	Innovation Management Driven by AI: Approaches for Long-Term Competitive Advantage	SCOPUS

FACULTY CONTRIBUTION TO BOOK PUBLICATIONS

S.no	Faculty Name	Title of Book	Acted as
1	Mr. K. Bhavanarayana	A textbook of strength of materials - Fundamental Elements	Author
2	Dr. Raffi Mohammed	Research Communications in innovations and Advances in Mechanical Engineering : From Materials to Modern Applications Volume-I	Editor
3	Dr. Raffi Mohammed	Research Horizons in IoT Transformative Technologies and Applications Volume-1	Editor
4	Dr. Raffi Mohammed	Research Communications in Cyber Security: Innovations & Future Directions, Volume-I	Editor
5	Dr. Raffi Mohammed	Research Communications in Electronics and Telecommunications Engineering Advancements in the Digital Age Volume-1	Editor
6	Dr. Raffi Mohammed	Report on Two Week STTP on Research Writing, Proposal Writing Techniques to Get Funds for Projects and Systematic Process of Learning from Patent Drafting To Patent Grant	Editor



RESEARCH ARTICLE | APRIL 11 2025

Enhancement of mechanical and thermal properties in HDPE/sisal fiber biocomposites: An analysis of reinforcement ratios and heating rates 🛒

Raffi Mohammed ✉; G. Ramakrishna; T. Kumarasan; S. P. Kanniyappan; Aarthi Ramesh; Velumayil; R. Ramkumar

+ Author & Article Information

AIP Conf. Proc. 3270, 020203 (2025)

<https://doi.org/10.1063/5.0262530>

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Tools ▾

The three point bending, and tensile properties of biocomposites made of sisal fibres (SFs) and high-density polyethylene (HDPE) were investigated in detail in this study. Thermal behaviour of these novel high- density polyethylene/sisal bio-composites were analyzed through DSC and ATG. Reinforcement by weight ratios of 6–24% of natural sisal fibre were evaluated with heating rates of 6–12–and 24°C/min. When compared to neat HDPE, the mechanical parameters that were measured, including flexural strength and tensile

Deep Learning-Based Image Recognition for Electronic Components Identification

Publisher: IEEE

Cite This

PDF

Bhawani Sankar Panigrahi; Angelina Royappa; Dr Sandeep Monga; H. Geetha; Pavithra G; Bazani Shaik

All Authors

72

Full

Text Views

🔍 🔗 📄 📧

Abstract

Abstract:

Document

The use of deep learning techniques in the field of picture recognition for the purpose of identifying electronic components. Because of the growing complexity and variety

Department of Mechanical Engineering

Book Launch Event-2024



Grand Launch of the Edited Book titled: "Research Communications in Innovations and Advances in Mechanical Engineering: From Materials to Modern Applications"



FACULTY BOOK CHAPTER PUBLICATIONS ON RECENT TRENDS IN MECHANICAL ENGINEERING

The faculty members of the Department of Mechanical Engineering at Ramachandra College of Engineering have contributed significantly to academic research through the publication of book chapters in reputed volumes focusing on recent trends in mechanical engineering.

Faculty Name	Book Chapter Name
Mr. J. Ashok Kumar	Hydraulic and Pneumatic Systems: Design and Applications in Industry
Mr.B. Sudhakara Rao	Tribology and Surface Engineering: Improving Efficiency and Durability
Mr.G. Chitti Babu	Micro and Nano-Engineering in Mechanical Systems: Miniaturization Trends
Mr.A. Rahul Kumar	Biomechanics and Bio-inspired Design: Applications in Prosthetics and Robotics
Mr. K. P. V. S. R. Vinay Kumar	Exploring Materials Engineering Innovations: A Comprehensive Analysis of Advancements from Metals to Composites
Mr.J. Srikanth	Vibration Analysis and Noise Control in Mechanical Systems
Mr.Dr. Bazani Shaik	Structural Health Monitoring and Predictive Maintenance in Mechanical Systems
Dr. Raffi Mohammed	Marine Engineering: Innovations in Ship Design and Propulsion System
Mr.K. Bhavanarayana	Additive Manufacturing: 3D Printing Technologies and Applications
Mrs. B. Priyanka	Robotics and Automation in Manufacturing: Industry 4.0 Initiatives
Mr. S. Sunil Kumar	Finite Element Analysis and Computational Mechanics in Mechanical Design
Mr. P. Bhargava Kumar	Design Optimization Techniques: From Conceptualization to Prototyping
Dr.K.Venkateswarulu	HVAC Systems Design and Energy Efficiency in Buildings

These book chapters cover a wide range of emerging areas including advanced manufacturing processes, materials science, thermal engineering innovations, automation, and sustainable technologies. The publications reflect the department's commitment to academic excellence, research advancement, and the dissemination of knowledge to the wider engineering community.

Such scholarly contributions not only enhance the research profile of the department but also inspire students to engage in research and innovation. The management and the department congratulate all faculty members for their valuable academic achievements.

FACULTY INNOVATION THROUGH PATENT PUBLICATIONS

The faculty members of the Department of Mechanical Engineering at Ramachandra College of Engineering have made significant strides in research and innovation by publishing multiple patents in various domains of mechanical engineering. These patents reflect the department’s dedication to fostering a culture of creativity, problem-solving, and industry-oriented research. The innovations cover areas such as sustainable product design, automation systems, thermal engineering solutions, and advanced manufacturing technologies. By translating research into intellectual property, the faculty are contributing to technological advancement and setting a strong example for students to pursue innovation with societal impact. This achievement enhances the department’s academic reputation and aligns with its mission to promote research-driven learning.

S.no	Inventor’s Name	Patent Application Number	Title of the Patent
1	Dr. Raffi Mohammed	1215258	A device for production of advanced composite material with enhanced thermal stability
2	Dr. Raffi Mohammed	1227214	Hybrid IC Engine Solutions for Energy Flexibility
3	Dr. Bazani Shaik	403368-001	Property determining Machine for Extra Terrestrial Material
4	Dr. Raffi Mohammed	430421-001	Plastic Sorting Machine
5	Dr. Bazani Shaik	400411-001	Sewage Water Drain System
6	Dr. Raffi Mohammed	202541045691	High-Performance Polymer Matrix Composite Infused With Functional Nanoparticles For Enhanced Mechanical And Thermal Properties

FACULTY PARTICIPATION IN FDPS ON RECENT TRENDS IN MECHANICAL ENGINEERING

The faculty members of the Department of Mechanical Engineering at Ramachandra College of Engineering have actively participated in various Faculty Development Programs (FDPs) focused on recent trends and advancements in mechanical engineering. These FDPs covered a wide range of contemporary topics such as Additive Manufacturing, Robotics and Automation, Renewable Energy Systems, Artificial Intelligence in Mechanical Design, and Industry 4.0 Applications. Through these programs, the faculty gained valuable insights into emerging technologies, modern teaching methodologies, and innovative research practices. Their active engagement in continuous learning reflects the department's commitment to academic excellence, faculty development, and delivering industry-relevant education to students.

S.no	Name of the Faculty	Attended FDP's
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1	Dr. M. Muralidhara Rao	Design & Development of Biomedical Antennas
2	Dr. BazaniShaik	Innovation-Driven Entrepreneurship :From AI Enabled to Research to Startup Launch
3	Dr. BazaniShaik	Research Writing Proposal Writing Techniques to get funds for Projects, and Systematic Process Learning From Patent Drafting to Grant
4	Dr. BazaniShaik	Emerging Research Opportunities In Hospitality and Tourism: Trends and Innovations
5	Dr. BazaniShaik	ESG's Impact on sustainable Goods: a perspective & tenacity
6	Dr. BazaniShaik	IoT Enabled Embedded Systems
7	Dr. BazaniShaik	Design & Development of Biomedical Antennas
8	Mr. G. Chitti Babu	Research Writing Proposal Writing Techniques to get funds for Projects, and Systematic Process Learning From Patent Drafting to Grant

8	Dr. BazaniShaik	Importance of Yam &Niyam” as a delegate, organised by Internal Quality Assurance Cell (IQAC)
9	Dr. BazaniShaik	Advances in Materials and Manufacturing
10	Dr. Raffi Mohammed	Design & Development of Biomedical Antennas
11	Dr. Raffi Mohammed	IoT Enabled Embedded Systems
12	Dr. K. Anand Babu	Innovation-Driven Entrepreneurship :From AI Enabled to Research to Startup Launch
13	Dr. Kota. Venkateswarlu	Innovation-Driven Entrepreneurship :From AI Enabled to Research to Startup Launch
14	Dr. Kota. Venkateswarlu	Research Writing Proposal Writing Techniques to get funds for Projects, and Systematic Process Learning From Patent Drafting to Grant
15	Mr. B. Sudhakara Rao	Innovation-Driven Entrepreneurship :From AI Enabled to Research to Startup Launch
16	Mr. KPVSr Vinay Kumar	Research Writing Proposal Writing Techniques to get funds for Projects, and Systematic Process Learning From Patent Drafting to Grant
17	Mr. KPVSr Vinay Kumar	Innovation-Driven Entrepreneurship :From AI Enabled to Research to Startup Launch
18	Mr. G. Chitti Babu	Innovation-Driven Entrepreneurship :From AI Enabled to Research to Startup Launch

19	Mr. A. Rahul Kumar	Research Writing Proposal Writing Techniques to get funds for Projects, and Systematic Process Learning From Patent Drafting to Grant
20	Mr. A. Rahul Kumar	Innovation-Driven Entrepreneurship :From AI Enabled to Research to Startup Launch
21	Mr. J. Srikanth	Research Writing Proposal Writing Techniques to get funds for Projects, and Systematic Process Learning From Patent Drafting to Grant
22	Mr. J. Srikanth	Innovation-Driven Entrepreneurship :From AI Enabled to Research to Startup Launch
23	Mr. K. Bhavanarayana	Innovation-Driven Entrepreneurship :From AI Enabled to Research to Startup Launch
24	Mrs. P. Lakshmi Kala	Design & Development of Biomedical Antennas
25	Mr. Y. Hemanth	Innovation-Driven Entrepreneurship :From AI Enabled to Research to Startup Launch
26	Mr. G. V. Phani Babu	Innovation-Driven Entrepreneurship :From AI Enabled to Research to Startup Launch

STUDENT ACHIEVEMENTS



MECHANICAL ENGINEERING STUDENTS SHINE AT ADITYA PRO KARTING ENDURANCE CHAMPIONSHIP 2025!

We are thrilled to announce that our very own Mechanical Engineering department students demonstrated exceptional camaraderie and sportsmanship at the recently concluded Aditya Pro Karting Endurance Championship 2025, hosted at Aditya University, Surampalem. The championship, now in its highly anticipated 5th season, was an arena of intense racing, fierce competition, and adrenaline-pumping experiences, showcasing the skills, precision, and endurance of participating teams.

Amidst the high-speed overtakes and strategic battles, our team from Ramachandra College of Engineering proudly secured the "Best Team Spirit Award". This prestigious recognition is a testament to the dedication, collaboration, and positive attitude displayed by our students throughout the championship. Their ability to work cohesively under pressure and support each other truly embodies the spirit of engineering and teamwork.

We extend our heartfelt congratulations to all the students involved for their hard work, perseverance, and for representing our department with such distinction. This achievement not only highlights their technical prowess but also their outstanding character.

ESTABLISHMENT OF IIET STUDENT CHAPTER

The Department of Mechanical Engineering at Ramachandra College of Engineering (Autonomous), Eluru, proudly announces the formal establishment of the Student Chapter of The Institute for Innovations in Engineering and Technology (IIET). This milestone marks a significant step towards fostering a vibrant academic and professional ecosystem within the department.

The IIET Student Chapter has been instituted with a clear objective of promoting professional development, technical excellence, and research-based learning among students. Through this platform, students will be encouraged to engage in a wide range of academic and co-curricular activities that enhance their practical knowledge and industry readiness.

Operating under the supervision of the Department Coordinator and Faculty Advisors, the chapter will function in accordance with the official guidelines set by IIET. It will serve as a hub for organizing seminars, workshops, guest lectures, industrial visits, technical competitions, and community outreach programs, all aligned with the broader mission of IIET to nurture innovation and technological advancement.

The department extends its congratulations to all student and faculty members involved in the formation of the chapter and looks forward to its positive impact on student engagement, learning outcomes, and professional preparedness.



DEPARTMENT ACTIVITIES

ENTREPRENEURSHIP AWARENESS PROGRAM (EAP) UNDER ENTREPRENEURSHIP SKILL DEVELOPMENT PROGRAM (ESDP)



The program featured expert sessions, interactive workshops, and motivational talks by industry professionals and successful entrepreneurs. Participants were introduced to various aspects of entrepreneurship including idea generation, business planning, funding opportunities, and government support schemes for startups. This program not only enhanced the entrepreneurial skills of the students but also empowered them to explore self-employment as a viable career option. The department continues to take proactive steps in nurturing a culture of innovation and self-reliance among budding engineers.

The Department of Mechanical Engineering at Ramachandra College of Engineering successfully organized an Entrepreneurship Awareness Program (EAP) under the Entrepreneurship Skill Development Program (ESDP). This initiative aimed to cultivate entrepreneurial mindset among students and to encourage innovation-driven enterprise creation in the field of engineering.



SIX-WEEK SKILL DEVELOPMENT PROGRAM ON CREO SOFTWARE UNDER ENTREPRENEURSHIP SKILL DEVELOPMENT PROGRAM (ESDP)



The Department of Mechanical Engineering at Ramachandra College of Engineering successfully conducted a Six-Week Skill Development Program on CREO Software under the Entrepreneurship Skill Development Program (ESDP). This initiative was aimed at enhancing technical competency and promoting entrepreneurial skills among mechanical engineering students. CREO, a leading 3D CAD software used in product design and development, was taught through hands-on training sessions, live demonstrations, and real-time project-based learning.

The program was designed to bridge the gap between academic knowledge and industry requirements, equipping students with job-ready skills and encouraging them to consider design-based entrepreneurship opportunities. Throughout the six weeks, students gained practical experience in 3D modeling, assembly, simulation, and design optimization, thereby strengthening their proficiency in mechanical design and product innovation.


ONE-WEEK NATIONAL LEVEL STUDENT AND FACULTY DEVELOPMENT PROGRAM (NSFDP) ON "INNOVATION-DRIVEN ENTREPRENEURSHIP: FROM AI-ENABLED RESEARCH TO START UP LAUNCH"


The Department of Mechanical Engineering at Ramachandra College of Engineering successfully organized a One-Week National Level Student and Faculty Development Program (NSFDP) on the theme "Innovation-Driven Entrepreneurship: From AI-Enabled Research to Startup Launch." The program aimed to bridge the gap between cutting-edge research and real-world entrepreneurial ventures, especially in the context of Artificial Intelligence (AI) applications.

This initiative brought together experts from academia, industry, and the startup ecosystem to share insights on transforming innovative ideas into viable startups. Sessions included topics such as AI in product development, research commercialization, funding opportunities, startup incubation, and case studies of successful entrepreneurs.

The event saw enthusiastic participation from students, faculty, and budding entrepreneurs across the country. It served as an excellent platform to inspire and equip participants with the knowledge and tools required to embark on the journey of innovation and entrepreneurship.

The National Level Student and Faculty Development Program (NSFDP) titled "Innovation-Driven Entrepreneurship: From AI-Enabled Research to Startup Launch" is a transformative initiative designed to equip students, faculty, and aspiring entrepreneurs with the knowledge and skills to translate innovative ideas into successful startups. This program emphasizes the integration of cutting-edge technologies, particularly Artificial Intelligence (AI), into entrepreneurial practices, fostering innovation and enabling the transformation of advanced research into market-ready solutions.


**Ramachandra College of Engineering**
An Autonomous Institution
Department of Mechanical Engineering




One-Week National Level Student and Faculty Development Program (NSFDP) on "Innovation-Driven Entrepreneurship: From AI-Enabled Research to Startup Launch"


Mode: Virtual (Google Meet) | Dates: 24th Feb to 01st Mar, 2025 | Timings: 10:30 AM to 1:30 PM


Resource Persons

**Dr. Narayan Krishnaswamy**
Ph.D - IISc, Bangalore
Managing Partner and Founder,
Oppen Fynn Innovation Lab, Bangalore, Karnataka, India
Topic: AI in Digital Marketing for Entrepreneurs


**Dr. Sudhanshu Maheshwari**
Ph.D - IIT Madras
Co-founder, Dime Innovations Pvt. Ltd, Ambattur, Tamil Nadu, India
Topic: Designing AI-Driven Products and Services


Date: 25/02/2025

**Dr. Renu S**
Ph.D - NIT Trichy
Assistant Professor, IIM Trichy, Tamil Nadu, India
Topic: AI for business strategy and operations

**Dr. Ajitha Soundararaj**
Ph.D - NIT Puducherry
Assistant Professor School of Computer Science and Engineering, VIT Chennai, India
Topic: Leveraging AI for Entrepreneurial Growth and Research Innovation

Date: 26/02/2025

**Dr. R. Sujithra**
Ph.D - NIT Puducherry
Assistant Professor School of Computer Science and Engineering, VIT Chennai, India
Topic: Leveraging AI for Entrepreneurial Growth and Research Innovation

**Dr. R. Sujithra**
Ph.D - NIT Puducherry
Assistant Professor School of Computer Science and Engineering, VIT Chennai, India
Topic: Leveraging AI for Entrepreneurial Growth and Research Innovation

More information
Dr. T. Pravin: 9686 888 519
Dr. R. Sujithra: 9686 888 519

Registration Link:
tinyurl.com/nsFDP2025

Chief Patrons

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Ramachandra College of Engineering (A), Eluru, India
Sri K. Sairaj, Managing Director & Secretary
Ramachandra College of Engineering (A), Eluru, India
Dr. J. Lakshmi Ranga, Dean-R&D, Ramachandra College of Engineering (A), Eluru, India
Dr. Kusuma Sundara Kumar, Head of the Department, Dept. of Civil Engineering, RCE (A), Eluru

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Dr. S. S. Sarma, Dean Academics, Ramachandra College of Engineering (A), Eluru, India
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Dr. B. Prasad Babu, Dean-Internal Affairs, Ramachandra College of Engineering (A), Eluru, India

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Dr. Basim Shaikh, Professor, Department of Mechanical Engineering, Ramachandra College of Engineering (A), Eluru, India
Dr. R. Parim S V Padma Latha, Associate Professor, Department of MBA, Ramachandra College of Engineering (A), Eluru, India

Co-Convenor (s)

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Dr. Basim Shaikh, Professor, Department of Mechanical Engineering, Ramachandra College of Engineering (A), Eluru, India
Dr. Parim S V Padma Latha, Associate Professor, Department of MBA, Ramachandra College of Engineering (A), Eluru, India

Coordinator (s)

Mr. J. Ashok Kumar, Faculty of Mechanical Engineering, RCE (A), Eluru
Mr. G. Chitti Babu, Faculty of Mechanical Engineering, RCE (A), Eluru

Organizing Committee


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Mr. A. Rahul Kumar, Faculty of Mechanical Engineering, RCE (A), Eluru.
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Mr. V. Santhya Kumar, Faculty of Mechanical Engineering, RCE (A), Eluru.
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Mr. M. Saaram, Faculty of Mechanical Engineering, RCE (A), Eluru.

Advisory Committee

Prof. Dr. Abdul Siddique Shaikh, Professor of MED, King Khalid University, Abha, Saudi Arabia
Dr. M. Suresh, Professor, Department of Electronics and Communication, Engineering University of Southamp, Malaysia
Dr. J. Lakshmi Ranga, Dean-R&D, Ramachandra College of Engineering (A), Eluru
Dr. Kusuma Sundara Kumar, Head of the Department, Dept. of Civil Engineering, RCE (A), Eluru
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Dr. Sharmista Begum, Head of the Department, Dept. of Cyber Security, RCE (A), Eluru
Dr. K. Venkatesh, Head of the Department, Dept. of AI/ML, RCE (A), Eluru
Dr. B. Sarada, Head of the Department, Dept. of AI/ML, RCE (A), Eluru
Dr. Suravaram Naga Padma, Head of the Department, Dept. of MBA, RCE (A), Eluru
Dr. SVB Subrahmanyawara Rao, Head of the Department, Dept. of FED, RCE (A), Eluru

Important Links

Registration Link : tinyurl.com/nsFDP2025



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About the Institution

Ramachandra College of Engineering (RCE), Eluru, founded by Ghanta Ramachandra Rao, is a premier Autonomous institution recognized by AICTE and permanently affiliated with JNTUK. Under the Young and Dynamic leadership of Sri. K. Sai Raghav Managing Director and Secretary, the college has earned NAAC A+ and NBA accreditation for all departments, and is also recognized for innovation and entrepreneurship. RCE offers a wide range of UG and PG programs, supported by experienced faculty and state-of-the-art infrastructure, including modern labs and classrooms. The green, serene campus in Eluru provides an ideal learning environment. With 90% placements and a strong focus on stakeholder satisfaction, RCE continues to excel in engineering education, shaping the future of its students.

About the Department

The Mechanical Engineering Department at Ramachandra College of Engineering, Eluru, established in 2011 with an initial intake of 60 students, expanded to 120 seats in 2012, and introduced a PG course in Machine Design in 2014 with 24 seats with a vision to become a centre of excellence in the field of Mechanical Engineering by providing quality technical education and research to learners and solve social and environmental problems by developing innovative and creative skills in them and make the graduates employable along with lifelong learning, leadership and entrepreneurial skills. The department is known for its state-of-the-art infrastructure, featuring spacious labs equipped with advanced machinery and tools, along with well-ventilated, modern classrooms designed for interactive learning. Beyond academics, the department provides exceptional research facilities for both UG and PG students in areas like material science, thermal engineering, and fluid dynamics, supported by industry-standard software and collaborative projects. Students are encouraged to participate in conferences, seminars, and workshops, and are supported in publishing research papers. With a strong curriculum, research focus, and extracurricular opportunities, the department consistently achieves 100% admissions, reflecting its strong reputation and demand.

About The NSFDP

The National Level Student and Faculty Development Program (NSFDP) titled "Innovation-Driven Entrepreneurship: From AI-Enabled Research to Startup Launch" is a transformative initiative designed to equip students, faculty, and aspiring entrepreneurs with the knowledge and skills to translate innovative ideas into successful startups. This program emphasizes the integration of cutting-edge technologies, particularly Artificial Intelligence (AI), into entrepreneurial practices, fostering innovation and enabling the transformation of advanced research into market-ready solutions. Over six days, participants will gain a comprehensive understanding of entrepreneurial processes, including business model development, securing funding, and leveraging AI for product innovation. The sessions will also cover critical topics such as patent and intellectual property rights, prototype building, pitch deck preparation, and the role of incubation centers in startup success. By combining interactive workshops, expert insights, and hands-on experiences with AI tools, the program aims to empower participants to navigate the challenges of the startup ecosystem and contribute to sustainable technological advancement.


Objectives

1. To inspire innovation and creativity by integrating AI and emerging technologies into entrepreneurial ventures.
2. To equip researchers with strategies to transform academic findings into commercially viable products and services.
3. To develop entrepreneurial skills such as business model design, funding acquisition, and market analysis.
4. To provide insights into the startup ecosystem, including incubation, acceleration, and venture capital opportunities.
5. To demonstrate the application of AI in addressing real-world challenges and enhancing product development.

Expected Outcomes

1. Enhanced ability to convert research into impactful market solutions.
2. Increased entrepreneurial and innovative capabilities among participants.
3. Establishment of collaborative networks for innovation and startup growth.
4. Improved understanding of AI tools and their application in entrepreneurship.
5. Creation of a robust entrepreneurial ecosystem at the institutional level, fostering sustainable and ethical technological innovations.

This program aims to create a lasting impact by inspiring participants to leverage innovation-driven approaches to entrepreneurship, ultimately contributing to the growth of AI-enabled research and startup ventures across the country.



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**FIRST INTERNATIONAL CONFERENCE ON RESEARCH COMMUNICATIONS
IN ENGINEERING, SCIENCE, AND MANAGEMENT (ICRCESM)-2025**

The Department of Mechanical Engineering at Ramachandra College of Engineering has successfully organized the First International Conference on Research Communications in Engineering, Science, and Management (ICRCESM–2025). This prestigious event served as a dynamic platform for researchers, academicians, industry professionals, and students from across the globe to exchange innovative ideas and present their latest findings in multidisciplinary areas.

Held with the aim of promoting collaborative research and fostering knowledge sharing, the conference featured keynote addresses by renowned experts, technical paper presentations, and interactive sessions spanning diverse fields such as mechanical engineering, artificial intelligence, sustainable technologies, data science, and management practices.

Organizing Committee Members

- Dr. G. Chitti Babu, Assistant Professor-ME
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- Mr. KPVS Vinay Kumar, Assistant Professor-ME
- Mr. A. Rahul Kumar, Assistant Professor-ME
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- Dr. Rajith Mahalingam, Associate Professor, Department of ME
- Mr. S. R. Suresh, Associate Professor, EEE
- Dr. K. Sundara Kumar, Professor & HoD-CEE

Co-Converters

- Dr. B. Sazani Shah, Professor-ME
- Dr. Ch. SRI Pradeep Kumar, Associate Professor-EEE
- Dr. G. N. V. Sarath Babu, Associate Professor-EEE
- Dr. Ch. Veeranna Kumar, Associate Professor-CEE

Coordinators

- Dr. K. Venkateswarlu, Associate Professor-ME
- Mr. K. Bhavanarayana, Associate Professor-ME
- Mr. Narendra Bavisteti, Assistant Professor-CEE (IoT)
- Dr. Siv Chandra Anish Babina, Assistant Professor-CEE
- Mr. Sonubabu Jayaraman, Assistant Professor-CEE

Co-Editors

- Dr. K. Anand Babu, Professor-ME
- Mr. N. V. S. Murthy, Assistant Professor-EEE
- Mr. P. Victor Babu, Assistant Professor-EEE
- Dr. M. Loka Prasad, Assistant Professor-EEE

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- Dr. B. Bagyalakshmi, HoD, Dept. of CEE, RCE (AI), Eluru
- Dr. G. Chandra Mohan, HoD, Dept. of CEE, RCE (AI), Eluru
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- Dr. C. V. Subrahmanya Prasad, HoD, Dept. of CEE, RCE (AI), Eluru
- Dr. Perini S V Padma Latha, Associate Professor, Dept. of MBA, RCE (AI), Eluru
- Dr. P. Kalyani Swarna, Associate Professor-FED, RCE (AI), Eluru

ICRCESM 2025

First International Conference on Research Communications in Engineering, Science and Management (ICRCESM)-2025

Jointly Organized by: MZEEC2 (Mechanical, Management, Electrical, Electronics, Civil and Computer Science Engineering Departments), Ramachandra College of Engineering (AI), Eluru, Andhra Pradesh, India & RSP Research Hub, Coimbatore, Tamil Nadu, India.

Event Partner: RSP Research Hub Coimbatore by Ecosmart Etech

Conference Dates: 30.05.2025 & 31.05.2025

Last date for Paper Submission: 29-05-2025

Last date for Early bird registration: 29-05-2025

Last date for Normal Registration: 24-05-2025

Registration Link: tinyurl.com/ICRCESM2025

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More information

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editors@rspresearchhub@gmail.com

Registration Fee

Category	Registration Fee	Travel Allowance	Accommodation Allowance	Food Allowance	Other Allowance
Conference Day Registration (One Day)	0.00	0.00	0.00	0.00	0.00
Conference Day Registration (Two Days)	0.00	0.00	0.00	0.00	0.00

Host Institution's Advisory Committee

The Department of Electronics and Communication Engineering was established in 2008 with an initial intake of 60 students, later expanding to 380 by 2014. In 2012, the department introduced an M. Tech program in VLSI Design with 18 seats to cater to the growing demand for advanced education in the field of VLSI design. The department is creating an industrial-like faculty, the department focuses on delivering a strong foundation in electronics and communication engineering. It emphasizes a balance of theoretical education and practical experience, preparing students for successful careers in the industry. Specialized training in software design and hardware-software integration further enhances students' skills, making them industry-ready.

The Department of Civil Engineering, established in 2014, aims to provide high-quality education. It offers an MBA accredited by TE (Civil) program to its faculty. The department is creating an industrial-like environment for students through projects, well-equipped labs. The department also hosts seminars, workshops, and entrepreneurship programs to enhance students' practical skills and industry exposure.

The Department of Computer Science & Engineering (CSE) was established in 2008 with an initial intake of 60 students, expanding to 380 by 2012. According to NBA in 2014, the department is committed to academic excellence and quality education. With a team of experienced faculty specializing in diverse areas of Computer Science, the department provides high-quality education with high student pass rates. One of the department's key strengths is its focus on research, producing skilled engineers, graduates secure placements in top companies like Infosys, TCS, and Cognizant. The department emphasizes real-time projects, practical training in software design, equipping students with the skills needed to excel in a competitive job market.

About the College:

Ramachandra College of Engineering (RCE), Eluru, was established in 2010 by the visionary Late Sri. Chandra Ramachandra Rao. Recognized by the AICTE and permanently affiliated with JNTU, RCE stands as a premier Autonomous Institute dedicated to excellence in engineering education. Under the dynamic leadership of Sri. K. S. Rajith Mahalingam, Director and Secretary, the college has achieved remarkable milestones such as NAAC 'A' accreditation, NBA accreditation for all departments, and a four-star BCI rating for Innovation and Entrepreneurship. RCE offers a wide range of UG and PG programs in engineering, supported by experienced faculty and state-of-the-art infrastructure, including modern labs and advanced classrooms. The serene, green campus in Eluru promotes a conducive environment for learning and research. With a strong focus on stakeholder satisfaction, RCE boasts a 90% placement rate and maintains robust industry connections, ensuring students are well-prepared for successful careers. The college's commitment to academic excellence, research, and innovation, RCE continues to shape the future of its students and contribute to the field of engineering education.

About the Departments (MZEEC2)

The Mechanical Engineering Department at RCE, founded in 2011 with 60 students, grew to 380 by 2014. It offers a B.Tech program in Machine Design in 2014. Aiming for excellence, it provides quality education, promotes research, and nurtures innovative, employable graduates with leadership skills. With advanced labs and modern classrooms, the department focuses on material science, thermal engineering, and fluid dynamics education, encouraging student participation in conferences and workshops. Its strong curriculum and extracurricular opportunities ensure 100% admissions, showcasing its reputation.

The MBA program at Ramachandra College of Engineering (RCE) was established in 2010 with an initial intake of 60 students, expanding to 380 by 2014. Approved by AICTE and affiliated with JNTU Kakinada, the department aims to develop leadership and analytical skills for the global business landscape. Focusing on finance, human resource management, and marketing, the program emphasizes applied business education with case studies, team building exercises, and practical knowledge. Equipped with computer labs and libraries, the program fosters industry interaction, practical exposure, and professional growth, preparing students for successful careers in the corporate sector.

The Department of Electrical Engineering (EEE), established in 2008, caters to the advanced learning and research needs of UG and PG students. It is well-structured and dynamic, with highly qualified faculty members who have extensive research experience. Committed to high-quality education and industry-relevant training, the faculty ensures students gain practical knowledge and hands-on experience. The department updates its infrastructure regularly to keep pace with industry advancements, promoting innovation and practical skills while actively engaged in research and consultancy projects in collaboration with leading organizations.

Benefits

- Full Papers will be Published in Open Access, Google Scholar Indexed journal with DOI number
- Abstract will be Published in the Conference Abstract Proceedings in IJESN
- Individual e-certificate (to all for Authors)
- Presenters in each category (IoT / PQ / Research Scholar / Faculty) will get a Certificate
- Selected Papers will be published in Scopus indexed book chapters

The ICRCESM–2025 conference attracted significant participation from national and international delegates, creating opportunities for academic networking and research collaborations. The Department of Mechanical Engineering takes pride in hosting this impactful event, which reflects its continuous commitment to academic excellence, research development, and global outreach.

The success of ICRCESM–2025 marks a significant milestone for the Department of Mechanical Engineering and the institution as a whole. It not only highlighted the department's growing research capabilities but also positioned Ramachandra College of Engineering as a proactive contributor to the global academic and research community. The organizing committee extends heartfelt thanks to all participants, keynote speakers, session chairs, and contributors for making this international conference a grand success.

Let me know if you want this content combined into a single article or translated into Telugu.

First International Conference on Research Communications in Engineering, Science and Management (ICRCESM)-2025

Jointly Organized by: M2E2C2 (Mechanical, Management, Electrical, Electronics, Civil and Computer Science Engineering Departments), Ramachandra College of Engineering (A), Eluru, Andhra Pradesh, India & RSP Research Hub, Coimbatore, Tamil Nadu, India.



Mode of Delivery : Online

Conference Chairs



Conference Dates
30.05.2025 & 31.05.2025



Ms. Laxmi Vanam

Data Specialist



Mr. Swapnil Ghatge

Principal Product Manager



Mr. Saravanan Thirumazhisai Prabhakaran

Principal Architect



Mr. Dipesh J Kashiv

Group Product Manager, Cisco



Mr. Jayanth Kolli

Cell Test Engineer



Mrs. Arpita Hajra

Senior Manager, Deloitte Consulting LLP, USA



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Assistant Professor, Department of Computer Science and Engineering, Amity University, Lucknow Campus, Uttar Pradesh, India.



Dr. Sarika Ghanshyam Jadhav

Assistant Professor School of Computer Science, Engineering, and Applications D Y Patil International University Pune, Maharashtra



Dr. G. Vanitha

Associate Professor, Department of Computer Science Engineering, Chaitanya Bharathi Institute of Technology (A), Gandipet, Hyderabad, Telangana



Prof. (Dr.) Suresh Suryanarayan Iyer

Professor and Dean, Rai School of Engineering, Rai University, Saroda, Dholka, Ahmedabad, India.



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Dr. Renuka Sagar

Professor, Department of Artificial Intelligence and Machine Learning Ballari Institute of Technology and Management, Ballari, Karnataka, India



Dr. Sudharson D

Associate Professor, Department of AI & DS, Kumaraguru College of Technology, Coimbatore, Tamil Nadu, India



Dr. K. K. Baseer

Associate Professor, Department of Computer Science and Engineering, GITAM School of Technology, GITAM, Bengaluru, Karnataka, India.

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First International Conference on Research Communications in Engineering, Science and Management (ICRCESM)-2025

Jointly Organized by: M2E2C2 (Mechanical, Management, Electrical, Electronics, Civil and Computer Science Engineering Departments), Ramachandra College of Engineering (A), Eluru, Andhra Pradesh, India & RSP Research Hub, Coimbatore, Tamil Nadu, India.

Keynote Speakers



Mr. Amit Ojha

CTO, MS, Software Engineering

Topic : Adaptive Emotional AI Interfaces for Hyper-Personalized Customer Engagement in Digital E-commerce



Mr. Prince Kumar

Principal Enterprise Architect, Bachelor of Engineering in Computer Science, Enterprise Architect

Topic : Designing Autonomous Enterprise-Scale Deep Fake Detection Architectures: Securing Financial Ecosystems Against Emerging Digital Fraud Threats



Mr. Anish Kumar Jain

Director, Software Engineering at Capital One

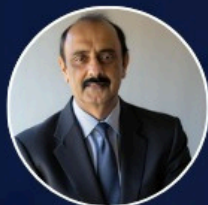
Topic : Integration of Explainable AI (XAI) in Credit Card Fraud Detection Systems: Enhancing Transparency in Software Engineering Solutions



Ms. Priti Nathani

Senior Physical therapist

Topic : Technological Integration for Coordinated Multidisciplinary Care in Home-Based Physical Therapy: Barriers, Enablers, and Patient-Centered Outcomes



Mr. Karan Alang

Principal Software Engineer

Topic : Meta-Learned Data Pipeline Adaptation for Continual Learning in Non-Stationary Data Streams



Mr. Gaurav Dixit

Vice President

Topic : AI-Driven Sustainable Omni-Channel Product Management in Retail: Real-Time Demand Sensing for Personalized, Eco-Friendly Assortments



Mr. Nikhil Kassetty

Software Engineer

Topic : Leveraging Serverless Multi-Cloud Architectures for AI-Driven Real-Time Fraud Detection in FinTech



Mr. Dipesh J Kashiv

Group Product Manager, Cisco, Computer Networks

Topic : Self-Evolving AI-Driven Networks: Designing Adaptive Communication Architectures through Continual Learning Models



Mr. Sathish Rao

Senior Engineering Consultant

Topic : Transportation Systems Management and Operations



Mr. Prakash Subramani

SAP Architect

Topic : AI-Driven Predictive Analytics and RPA Integration for End-to-End Billing Cycle Optimization



Ms. Deepaben Bhavsar

Regulatory Affairs Manager

Topic : Ethical and Legal Implications of Using Artificial Intelligence in Regulatory Submissions and Review Processes



Mr. Naveen Kunchakuri

Senior Machine Learning Engineer

Topic : Secure AI Integration with MLOps



Scan me to Register



Conference Dates

30.05.2025 & 31.05.2025

Registration Link:

tinyurl.com/ICRCESM2025

THE NATIONAL LEVEL ONE WEEK SHORT TERM TRAINING PROGRAM TITLED "GENERATIVE AI TOOLS ACROSS DISCIPLINES: TRANSFORMING RESEARCH AND INNOVATION"

The Department of Mechanical Engineering at Ramachandra College of Engineering successfully organized a National Level One Week Short Term Training Program (STTP) titled "Generative AI Tools Across Disciplines: Transforming Research and Innovation" from 09th to 14th January 2025.

This program aimed to explore the transformative potential of Generative Artificial Intelligence (AI) in academic research, interdisciplinary innovation, and industrial applications. The training sessions were designed to equip faculty members, research scholars, and students with hands-on experience and conceptual understanding of emerging AI tools such as ChatGPT, DALL·E, GitHub Copilot, and other domain-specific platforms.

Distinguished experts from premier institutes and industries delivered insightful lectures on topics including AI in engineering design, automated research writing, data-driven innovation, and creative content generation. Interactive workshops and live demonstrations enabled participants to gain practical exposure and understand how generative AI can enhance productivity, creativity, and problem-solving across various disciplines.

The event witnessed enthusiastic participation from delegates across India, reflecting the growing interest and need for AI literacy in the academic and professional landscape. The department proudly acknowledges the efforts of the organizing team and the support of the management in making this event a resounding success.

The program aimed to provide in-depth knowledge and practical exposure to cutting-edge generative AI tools and their applications in various fields such as engineering, science, and research. Eminent speakers from academia and industry delivered expert sessions on topics like AI-assisted design, content generation, and data-driven innovation.



Ramachandra College of Engineering (A)
NH-16 Bypass Road, Vatluru (V), Eluru, 534007, West Godavari Dt., Andhra Pradesh
Association with Pencil Bitz, Coimbatore, Tamilnadu



National level One Week STTP on
Generative AI Tools Across Disciplines : Transforming Research and Innovation
Organized by Department of Mechanical Engineering

JANUARY
09 - 14, 2025
10 AM - 12 PM



Mr. Ramprakash
Department of CSE
University College of Engineering,
Thirukkuvai, Nagapattinam.
Topic : An Open Source Tools for
Generative AI



Ms. Geethu M Suresh
Department of AI and ML
Mahaguru Institute of
Technology, Kayamkulam
Topic : Generative AI Tools : For
Education & Research



Dr. Debswarup Rath
Department of Electrical
Engineering,
Capital Engineering College
Topic : Application of Generative
AI in Research domain



Dr. G. Vijaya
Department of CSE
Sri Krishna College of Engineering
and Technology, Kuniyamuthur
Topic : GenAI: Past, Present and
Future



Mr. N. Rajesh Kumar
Commerce with International
Business, Hindusthan College(A)
Coimbatore
Topic : Generative AI tools for
Innovation



Dr. S. Ramesh
Mechatronics Engineering AI, ML,
IoT and Embedded Systems
Rajalakshmi Engineering College,
Thandalam, Chennai
Topic : Generative AI: Challenges
and Implications

EVENT CONVENER
Dr. Raffi Mohammed
Professor, Mechanical Engineering,
Ramachandra College of Engineering (A),
91-6301217675, 91-9533111789

PENCILBITZ ORGANIZER
Vibin Wilson Vishalini V
93613 13822 93610 90428

REGISTRATION FEE: RS 300/-
FOR STUDENTS : RS 150/-

8015666711



www.pencilbitz.com



JAN JATIYA GAURAV DIWAS – AWARENESS PROGRAM ON TRIBAL FREEDOM FIGHTERS

The Department of Mechanical Engineering at Ramachandra College of Engineering organized an Awareness Program on Tribal Freedom Fighters as part of the observance of Jan Jatiya Gaurav Diwas. This event aimed to honor the invaluable contributions of tribal leaders and communities in India's freedom struggle and to create awareness among students about their legacy.

The program featured presentations, short documentaries, and student-led discussions highlighting the lives and sacrifices of prominent tribal freedom fighters such as Birsa Munda, Sidhu and Kanhu Murmu, and Alluri Sitarama Raju. Faculty members emphasized the importance of remembering and respecting the role of tribal heroes in shaping India's history. The event inspired students to appreciate the diverse cultural heritage of the nation and recognize the courage and determination of unsung heroes. The department continues to promote such awareness programs to instill a sense of patriotism and historical consciousness among students.



CAMPUS CLEANING PROGRAM UNDER NATIONAL SERVICE SCHEME (NSS)



As a part of the National Service Scheme (NSS) initiative, the students of the Department of Mechanical Engineering at Ramachandra College of Engineering actively participated in a Campus Cleaning Program aimed at promoting cleanliness, hygiene, and environmental responsibility within the college premises. The program involved the systematic cleaning of academic blocks, pathways, green spaces, and common areas. Students enthusiastically took part in the activity, showcasing a strong sense of social responsibility and teamwork. The event not only enhanced the aesthetic appeal of the campus but also spread awareness about the importance of maintaining a clean and healthy environment. Faculty coordinators appreciated the students' initiative and encouraged them to continue contributing to community and environmental development through such meaningful activities.

EXPERT TALK ON “ENGINEERING STUDENTS ROLE IN MODERN SOCIETY AND INDUSTRY”



The Department of Mechanical Engineering at Ramachandra College of Engineering organized an insightful Expert Talk on the topic “Engineering Students' Role in Modern Society and Industry”. The session aimed to enlighten students about the evolving responsibilities of engineers in today’s fast-changing technological and societal landscape. The expert speaker highlighted the critical contributions of engineers in addressing global challenges such as sustainability, innovation, automation, and smart manufacturing. The talk emphasized the importance of interdisciplinary knowledge, ethical responsibility, problem-solving skills, and continuous learning for future engineers. The session aimed to inspire and guide budding engineers about their responsibilities and opportunities in shaping a progressive, technology-driven society.

Students actively participated in the session, gaining valuable perspectives on how they can shape their careers to meet industry demands while also contributing positively to society. The event served as a motivation for young minds to align their academic goals with real-world applications and societal impact. The department continues to foster such learning experiences to bridge the gap between classroom knowledge and industrial expectations. Real-world examples and case studies were shared to illustrate how engineers contribute to sustainable development, smart manufacturing, digital transformation, and social well-being. The session was highly interactive and motivated students to align their academic journey with industry expectations and societal needs.



INDUSTRIAL VISIT TO SATISH DHAWAN SPACE CENTRE (SDSC), ISRO – SRIHARIKOTA

The Department of Mechanical Engineering at Ramachandra College of Engineering organized an industrial visit to Satish Dhawan Space Centre (SDSC), ISRO – Sriharikota, for its students as part of their practical exposure and learning beyond the classroom. The visit provided a unique opportunity for the students to witness first-hand the operations and facilities of one of India's premier space research centers.

During the visit, students were given insights into various aspects of rocket assembly, satellite launching procedures, and the critical role of mechanical engineering in space missions. The interaction with ISRO officials enriched their understanding of aerospace structures, thermal systems, launch vehicle technology, and ground support mechanisms.

This visit served as a motivating and enlightening experience, inspiring students to explore career opportunities in the field of space research and high-end technology. The department remains committed to organizing such industrial visits to bridge the gap between academic learning and real-world applications.



INDUSTRIAL VISIT TO SARVARAYA SUGARS LIMITED (COCA-COLA BOTTLING PLANT)

The Department of Mechanical Engineering organized an industrial visit to Sarvaraya Sugars Limited, a prominent Coca-Cola bottling plant, located in Andhra Pradesh. The visit aimed to provide students with real-time exposure to modern manufacturing and bottling processes employed in the beverage industry.

During the visit, students gained valuable insights into the functioning of high-speed bottling lines, automation systems, quality control mechanisms, and mechanical maintenance practices. The plant uses advanced machinery and follows stringent hygiene and safety standards in producing a range of Coca-Cola products. The interaction with technical staff enriched students' understanding of mechanical components such as conveyor systems, pneumatic equipment, and packaging mechanisms.

This educational visit bridged the gap between theoretical knowledge and practical application, helping students understand how mechanical engineering principles are integrated into industrial operations. Overall, it was a highly informative and motivating experience for the students.

STUDENT MAJOR PROJECT HIGHLIGHTS

- 1.DESIGN, ANALYSIS & FABRICATION OF ANKLE JOINT USING 3D PRINTING AT VARIOUS LOADING CONDITION.
- 2.DESIGN AND ANALYSIS OF A COMPACT TUBULAR CHASSIS SYSTEM.
- 3.DESIGN AND DEVELOPMENT 8 LEG ROBOT USING TEOJOHNSON MECHANISM.
- 4.FABRICATION AND EVALUATION OF MECHANICAL PROPERTIES OF KEVLAR, BASALT AND S GLASS FIBER REINFORCED COMPOSITES FILLED WITH 10% CARBON POWDER USING HAND LAYUP TECHNIQUE.
- 5.FABRICATION AND TESTING OF VARIOUS HYBRIDS USING RAMIE HEMP AND KENAF FIBER ALONG WITH WALNUT SHELL POWDER USING HAND LAY UP TECHNIQUE.
- 6.DESIGN, STRUCTURAL AND THERMAL ANALYSIS OF GAS TURBINE BLADES USING VARIOUS MATERIALS.
- 7.EXPERIMENTAL INVESTIGATION ON MECHANICAL PROPERTIES OF FLAX, ARECA, SISAL FIBER REINFORCED COMOSITES FILLED WITH A TAMARIND SEED POWDER USING HAND LAYUP TECHNIQUE.
- 8.MODELING AND DEVELOPMENT OF INSIDE PIPELINE INSPECTION ROBOT.
- 9.DESIGN AND THERMAL ANALYSIS IC ENGINE DIFFERENT CYLINDER FINS USING VARIOUS MATERIALS WITH FEM.
- 10.DESIGN AND FABRICATION OF GOKART.
- 11.DESING AND STATIC MODEL ANALYSIS OF AIRCRAFT FUSELAGE USING VARIOUS MATERIALWITH FEM.
- 12.EXPERIMENTAL INVESTIGATION OF MECHANICAL PERFORMANCE AND WEAR RESISTANCE IN AL₂O₃ & MG REINFORCED AL 7075 HYBRID COMPOSITES.

A.Y: 2024-25 ODD SEMESTER TOPPERS LIST

I YEAR I SEM

I TOPPER	24ME1A0351	SHAIK SOHEL	8.34 SGPA
II TOPPER	24ME1A030	B.N.V.V.NIKHIL	8 SGPA
III TOPPER	24ME1A353	S.KIRAN	7.78 SGPA

II YEAR III SEM

I TOPPER	24ME5A305	KARETI SUDHAKAR	8.95 SGPA
II TOPPER	24ME5A0304	GORIPARTHI RAJESH	8.68 SGPA
III TOPPER	23ME1A0321	K. N. RAMASWAMI	7.78 SGPA

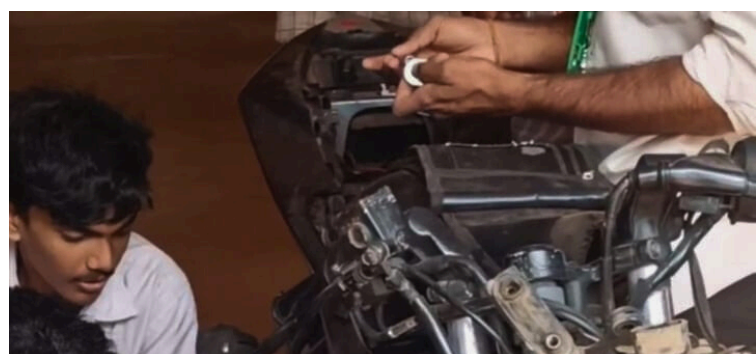
III YEAR I SEM

I TOPPER	22ME1A0315	K. SATISH BABU	8.23 SGPA
II TOPPER	22ME1A0330	PUJARI MANOHA	7.95 SGPA
III TOPPER	22ME1A0326	P. MAHINDRA	7.81 SGPA

IV YEAR I SEM

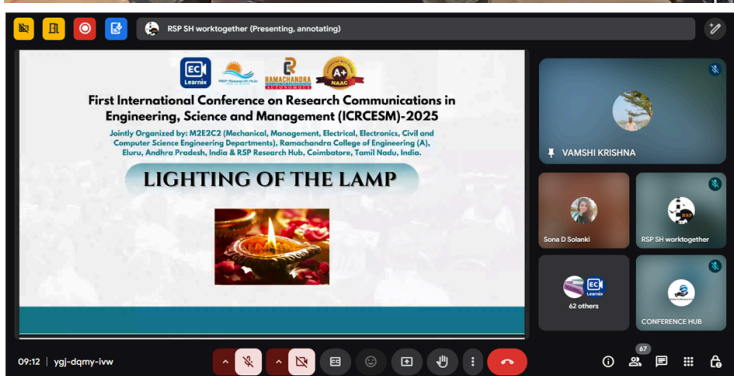
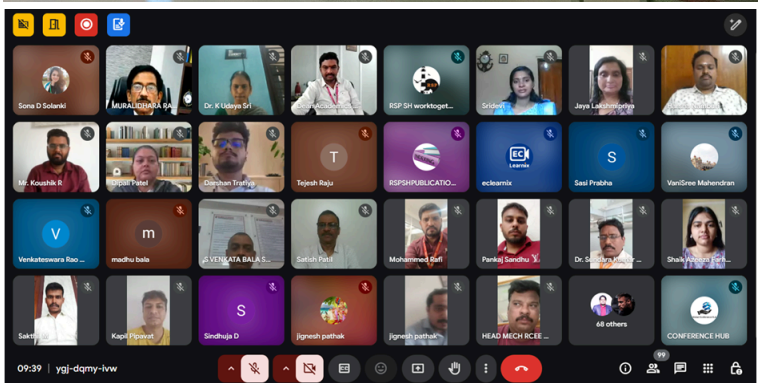
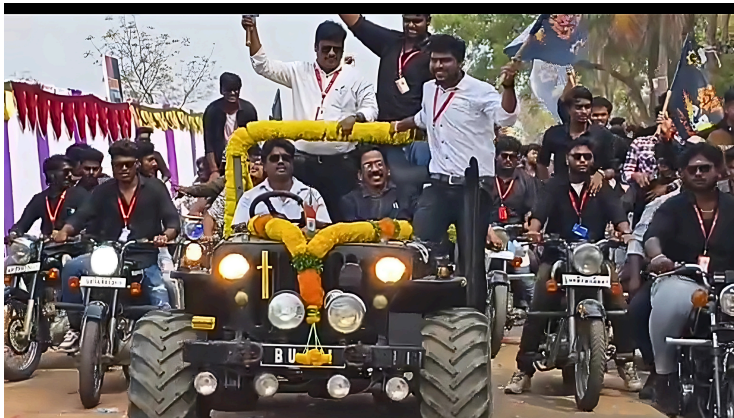
I TOPPER	21ME1A0304	B. DHANUSH	8.12 SGPA
II TOPPER	21ME1A0318	P. VIJAY BABU	8.08 SGPA
III TOPPER	22ME5A0315	S. RAVI TEJA	7.78 SGPA

LENS ON MECHANICAL ENGINEERING









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Professor
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Final Year



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21ME1A0318
Final Year



Mr. K. Satish Babu
22ME1A0315
Third Year



Mr. B. Gnaneswar
22ME1A0304
Third Year



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24ME5A0304
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23ME1A0331
Second Year



Mr. T. H. R. Krishna
24ME1A0356
First Year



MS. G. Varsha
24ME1A0319
First Year