

KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE

Opp: Yerragatu Gutta, Hasanparthy, Warangal- 506015, Telangana, India  
(AN AUTONOMOUS INSTITUTE UNDER KAKATIYA UNIVERSITY, WARANGAL)

# MECHANICAL ENGINEERING DEPARTMENT

*presents*

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THE STORY LEAD BY ALL THE  
ACHEVERS OF MECHANICAL  
DEPARTMENT



PUBLISHED BY:  
MECHANICAL ENGINEERING STUDENTS' ASSOCIATION (MESA)  
2024-25



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# EDITORIAL

*Dear mechanical engineering students and esteemed readers of **SPOORTHI**,*

*On behalf of the Editorial Team of SPOORTHI, it is our pleasure to connect with you through this editorial. This message serves as an introduction to our association and its mission to nurture your growth in the dynamic field of mechanical engineering.*

*The Mechanical Engineering Association is dedicated to uniting students from all years of the department, creating a space where ideas flow freely, knowledge is exchanged, and engaging conversations thrive. Our focus is on fostering academic excellence and enhancing professional development by hosting workshops, seminars, and guest lectures by prominent figures from the industry.*

*In addition, our association organizes a variety of events, both technical and non-technical, including quizzes, debates, design challenges, and sports competitions. These activities offer students a chance to hone their skills, build confidence, and interact with peers while also showcasing their talents in different domains.*

*Staying up-to-date with the latest advancements in mechanical engineering is crucial for all of us. To this end, our association remains committed to providing insights into the newest trends and innovations through leadership talks, industry-focused sessions, and research contributions from our faculty, all of which will be highlighted in the SPOORTHI magazine.*

*In closing, we encourage each of student to actively participate in the activities organized by the Mechanical Engineering Association. By doing so, they will gain essential knowledge, develop valuable skills, and create lasting connections and memories. Together, let's contribute to the continued success of our department and play our part in advancing the field of mechanical engineering and our nation's growth.*

Thank you ....!  
-Editorial team



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## MESSAGE

*I am very glad that the department of Mechanical Engineering of this Institute has unveiled “SPOORTHY”, an annual departmental magazine displaying significance of the department and its involvement in improving the value of this institute. It gives me a pleasure reading this magazine consisting of a lot of valuable content and I whole heartedly appreciate the department and its editorial team for building this icon of fame. I am fully convinced that this institution is self-sufficient in the objectives and values of true education and this work is indubitably a concrete form of this Learning Center’s great Endeavour. I am sure that this book of great value inspires everyone to achieve more and set new bench marks to all the forthcoming generations.*

*I congratulate the students and Staff and wish a grand success.*



**Capt. V. Lakshmikantha Rao**  
Chairman, Ex M.P. (R.S.)

## MESSAGE

*From the inception of the institute in 1980, the Mechanical Engineering Department has been involved in imparting quality education and research through various programmes.*

*I believe that this work of bringing out a departmental magazine “SPOORTHY” will be of great help to students as they can understand its vision, its mission and the varied ideas of the student community in the best way by witnessing all the happenings of the department in this year and realizing their true essence.*

*I deem it as a privilege to compliment the faculty and staff for the efforts and commitment put forth for making this a success. I wish the department all the success and I hope everyone enjoys learning from this magazine*



**P. Narayana Reddy**  
Treasurer



## MESSAGE

*The Mechanical Engineering department of KITSW has distinguished itself through its achievements and contributions in academics, research and social responsibility. I feel that bringing out a magazine at departmental level is a breakthrough idea which connects every single person in the department and the content in it surely motivates everyone to put their best effort to improve the performance of the department. I feel students are the primary benefitters of this work through which they can communicate, learn about the department and finally add another useful skill to themselves by contributing to this work.*

*As I look forward, I can visualize that this effort by the team will grow the standards of the department and improve its efficiency, quality, and strength.*



**Dr. K. Ashoka Reddy**  
Principal

## MESSAGE

*It gives me immense pleasure to present “SPOORTHY”, the annual magazine of the Department of Mechanical Engineering. This magazine is a reflection of our department’s commitment to academic excellence, innovation, and the holistic development of our students. It serves as a platform to showcase the technical prowess, creativity, and achievements of our students and faculty. Mechanical Engineering, being the cornerstone of technological advancements, has always been at the forefront of innovation. Our department constantly strives to foster a spirit of inquiry and research, equipping students with the skills and knowledge to excel in their careers. This magazine is a testament to the dedication and hard work of our students and faculty members who have contributed valuable content that adds to the prestige of our institution. I extend my heartfelt appreciation to the editorial team for their relentless efforts in bringing this magazine to life. I hope “SPOORTHY” will serve as an inspiration for all, encouraging students to push boundaries and achieve new milestones. I congratulate everyone involved and wish the magazine great success!*



**Dr. P. Srikanth**  
Prof. & HoD, MED



# Profile of the Department

*The Department of Mechanical Engineering came into existence right from the inception of the KITSW in the year 1980 and has been serving as a catering department to other disciplines. The Department is one of the largest in terms of faculty, and activities, continues to lead and expand its activities in various directions. The department currently runs an undergraduate programme, one post-graduate program in M. Tech Design Engineering, and offers a Ph. D program. Twenty-Seven Research scholars have registered so far, of which six have been awarded with Ph. D degrees and the remaining are pursuing their Ph. D work in the areas of Thermal, Production, Composite Materials, and Design Engineering specialization. The NBA accredited the B. Tech. ( Mechanical Engineering) programme six times and M. Tech ( Design Engineering) programme first time under Tier-I: in 2023.*

*The department has a total of 29 qualified, experienced, and committed faculties, and 18 of them have Ph.D. degrees. The remaining faculty members are pursuing their Ph. D with an average experience of 15 years. Seven skilled technical staff members are associated with different laboratories. The faculty have been engaged in research in trending areas like Sustainable design and green Engineering, Computational design, Robotics, Reliability and failure analysis, optimization, product design & development, Automobile Engineering, Additive manufacturing, Battery Thermal Management, Computational Fluid Dynamics, Thermal Engineering Systems and Fuel Cells , Heat Transfer and Energy Analysis, Electric discharge machining, composite materials, and powder metallurgy & Bio Materials. The department has received grants under MODROBS from AICTE and Minor Research Projects from UGC , SERB and others. The department is very well equipped with resources both in terms of equipment and the latest software. The Department has computing systems and workstations loaded with a wide range of engineering software products covering all areas of mechanical engineering like ANSYS, CFD, CREO, AUTOCAD, and MATLAB. It has a central workshop facility (1000 Sqm) well equipped with the state of art equipment viz CNC wood router, CO2 laser cutter, Robotics, 3D printers, PCB & IoT to impart technical training to students of all disciplines. The academic activities are supported by 12 laboratories and one centre of excellence Indo-American Artificial Heart Project (IAAHP) in collaboration with Pittsburgh University, USA and also our department has two clubs Force Racing under SAE, and ISHRAE for HVAC seminars and webinars.*

*The department has strong industry-institute links and is extending services for industrial consultancies. Mechanical engineering students consistently achieve high rankings and scores in competitive examinations such as UPSC, GATE, GRE, CAT, GMAT, TOEFL, and IELTS. Alumni of the department are spread across the globe.*



## VISION OF THE INSTITUTE

*To make our students technologically superior and ethically strong by providing quality education with the help of our dedicated faculty and staff and thus improving the quality of human life.*

## MISSION OF THE INSTITUTE

- *To provide latest technical knowledge, analytical and practical skills, managerial competence and interactive abilities to students, so that their employability is enhanced.*
- *To provide a strong human resource base for catering to the changing needs of the Industry and Commerce.*
- *To inculcate a sense of brotherhood and national integrity.*

## VISION OF THE MECHANICAL DEPARTMENT

- *To be a Centre of excellence in Mechanical Engineering, to provide the best teaching-learning and research environment, to produce high quality professionals and entrepreneurs to cater the needs of society.*

## MISSION OF THE MECHANICAL DEPARTMENT

- *To impart quality education that builds strong ethical attitude, technical knowledge and professional skills by providing congenial teaching-learning environment.*
- *To nurture the reasoning, problem solving and research capabilities of learners by providing the state-of-the-art facilities, to meet the changing needs of society.*
- *To inculcate life-long learning and leadership traits for successful professional careers, by counseling and mentoring.*





## **Program Educational Objectives (PEOs) of B. Tech in Mechanical Engineering Program**

*PEO1: To provide comprehensive knowledge in basic sciences, mechanical engineering and multi disciplinary areas.*

*PEO2: To apply modern tools and techniques to design, analyze, interpret and solve mechanical and allied engineering problems and communicate them effectively.*

*PEO3: To impart responsibility towards socio-technical, economical, environmental and energy related issues*

*PEO4: To inculcate professionalism, ethical attitude, team spirit and lifelong learning to achieve career goals.*

## **Program Outcomes (POs) of B. Tech in Mechanical Engineering Program Engineering Graduates will be able to:**

*PO1: Engineering Knowledge: Apply knowledge of mathematics, natural science, computing, engineering fundamentals and an engineering specialization as specified in WK1 to WK4 respectively to develop to the solution of complex engineering problems.*

*PO2: Problem Analysis: Identify, formulate, review research literature and analyze complex engineering problems reaching substantiated conclusions with consideration for sustainable development. ( WK1 to WK4)*

*PO3: Design/Development of Solutions: Design creative solutions for complex engineering problems and design/develop systems/components/processes to meet identified needs with consideration for the public health and safety, whole-life cost, net zero carbon, culture, society and environment as required. ( WK5)*



*PO4: Conduct Investigations of Complex Problems: Conduct investigations of complex engineering problems using research-based knowledge including design of experiments, modelling, analysis & interpretation of data to provide valid conclusions. (WK8).*

*PO5: Engineering Tool Usage: Create, select and apply appropriate techniques, resources and modern engineering & IT tools, including prediction and modelling recognizing their limitations to solve complex engineering problems. (WK2 and WK6)*

*PO6: The Engineer and The World: Analyze and evaluate societal and environmental aspects while solving complex engineering problems for its impact on sustainability with reference to economy, health, safety, legal framework, culture and environment. (WK1, WK5, and WK7).*

*PO7: Ethics: Apply ethical principles and commit to professional ethics, human values, diversity and inclusion; adhere to national & international laws. (WK9)*

*PO8: Individual and Collaborative Team work: Function effectively as an individual, and as a member or leader in diverse/multi-disciplinary teams.*

*PO9: Communication: Communicate effectively and inclusively within the engineering community and society, such as being able to comprehend and write effective reports and design documentation, make effective presentations considering cultural, language, and learning differences*

*PO10: Project Management and Finance: Apply knowledge and understanding of engineering management principles and economic decision-making and apply these to one's own work, as a member and leader in a team, and to manage projects and in multidisciplinary environments.*



*PO11: Life-Long Learning: Recognize the need for, and have the preparation and ability for*

*i) independent and life-long learning*

*ii) adaptability to new and emerging technologies*

*iii) critical thinking in the broadest context of technological change. ( WK8)*

### ***Program Specific Outcomes (PSOs)***

*PSO1: To apply learned principles and knowledge in various applications of materials, design, thermal, production and industrial engineering.*

*PSO2: To model, analyze, design, develop and implement advanced mechanical systems or processes.*



# ARTS & ARTICLES

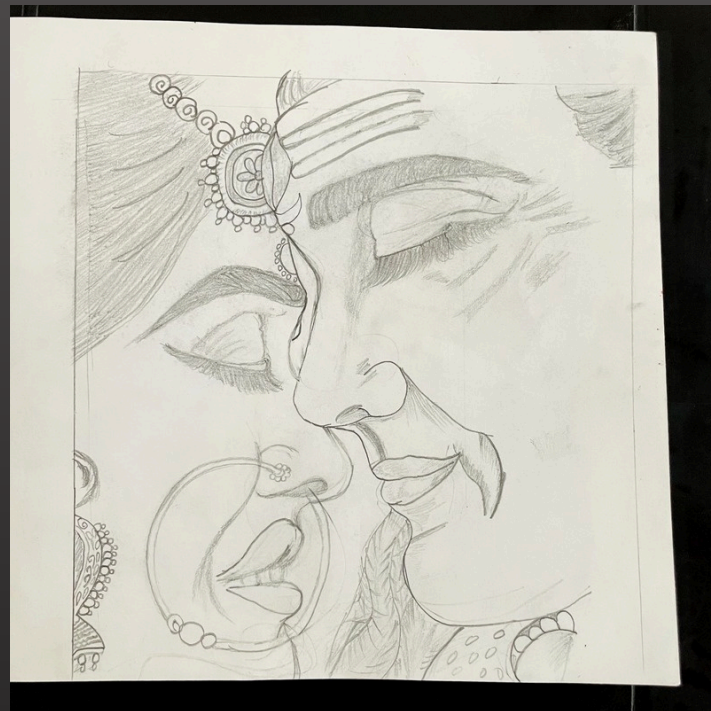






Pervala Anusri - B21ME033

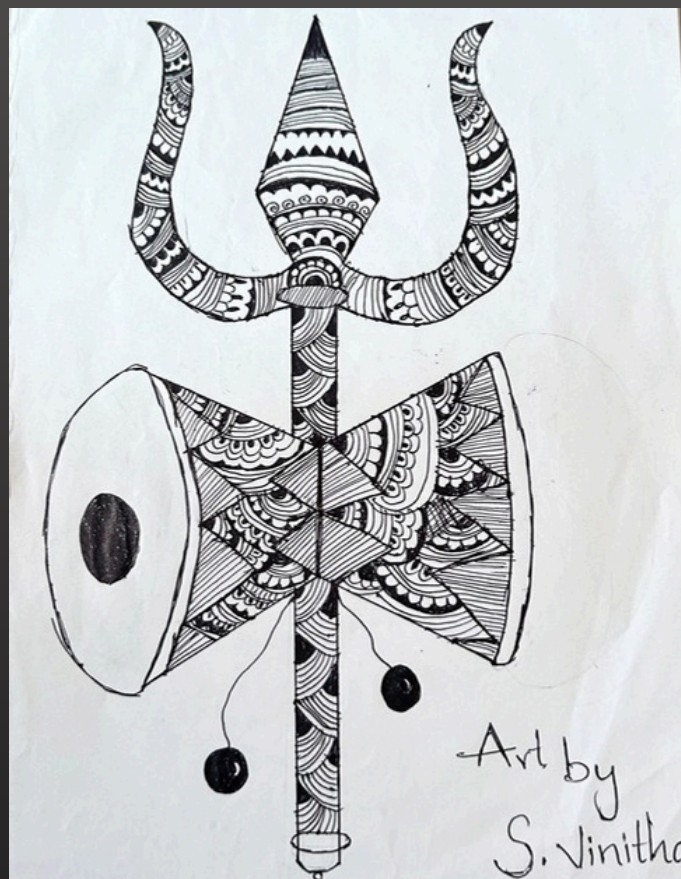




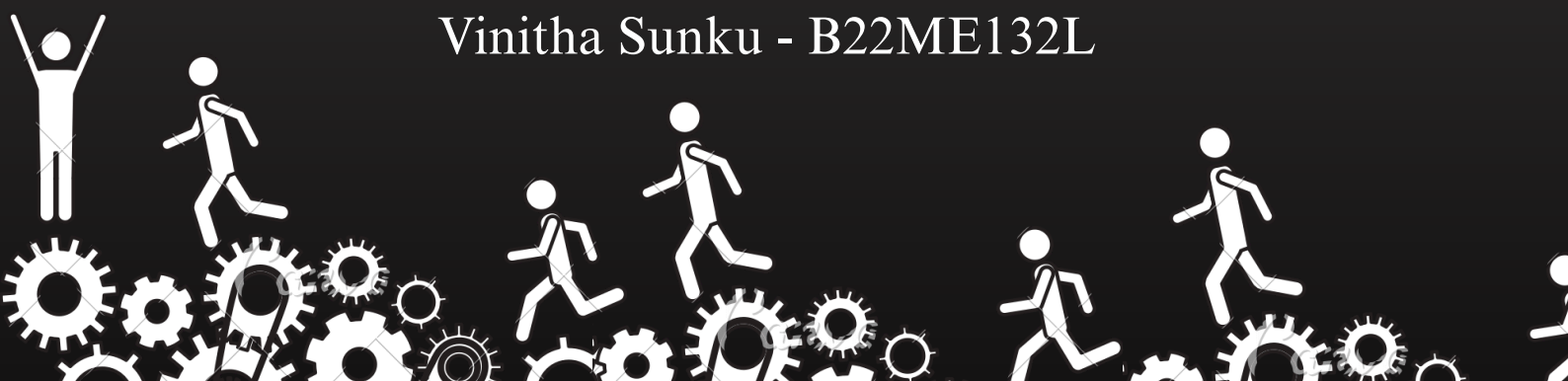
Pervala Anusri - B21ME033







Vinitha Sunku - B22ME132L



# Rise From the Ashes

*Life is not a straight road—it's a stormy ocean, testing every soul that dares to dream. At times, it breaks you, shatters your spirit, and leaves you crawling in the dark. But understand this: the moments when you feel weakest are the very moments that shape your strength.*

*Everyone falls. Everyone fails. But not everyone rises.*

*You are not your failures. You are the fire that survives them. Every scar you carry is proof that you didn't give up. It's okay to cry. It's okay to break. But never, ever settle in that brokenness. Stand up. Even if your legs tremble. Speak hope, even if your voice shakes.*

*The world may doubt you. People may leave. But you? You must believe.*

*The most beautiful stories are not written by those who had it easy, but by those who walked through hell and still found heaven in their hearts.*

*So take a breath. Wipe the tears. And start again. You're not finished. You're just getting started.*

*Because buried inside you is something unbreakable—a spirit that refuses to die.*

*Let the world see it.*

*Let you see it.*

**SRAVANI RACHARLA**  
**B22ME139L**





# The Brain Behind You

*Let me ask you something simple: Have you ever wondered why you are the way you are?*

*Why you react the way you do, why you get angry, scared, jealous, or stuck in overthinking?*

*The answer isn't magic, it's not fate, it's your brain.*

*Every thought, every fear, every habit is wired inside your neurons.*

*Your behaviour isn't who you are it's what your brain learned to survive.*

*You weren't born afraid to fail. You weren't born thinking you're not good enough.*

*Your brain just built those walls to protect you from pain.*

*But here's the truth: Neuroscience shows us your brain can change. It's called neuroplasticity.*

*Every thought you repeat, every action you take, every belief you reinforce rewires your mind.*

*You're not stuck. You're just rehearsing the same story.*

*What if you choose differently?*

*What if you trained your brain to see possibility, not fear? To build habits of courage, not avoidance?*

*Your behaviour is not your identity. It's your script. And you, yes you, are the author.*

*So, the day you leave the college ask yourself: Am I living by default or by design?*

*Your brain is ready to follow the story you choose to tell. So, choose the story you want to tell your brain carefully.....*

**Mohammed Ghouse Mohiuddin**

**B22ME127L**



# DEPARTMENT ACTIVITIES

## SUMSHODHINI'24

*With an ever-increasing spirit of innovation and a distinctive motto, the Mechanical Engineering Department hosted technical events for SUMSHODHINI 24, a National-Level Technical Symposium organized by the Indian Society for Technical Education (ISTE), KITS Warangal chapter, and the Technical Club SAC KITS Warangal on 18th and 19th of October 2024. This is just one of many interactive events the department conducts throughout the year to enrich students' knowledge and skills. For the convenience of both participants and organizers, all activities were held across these two days. Below is a day-by-day breakdown of all the activities that took place, their structure, and how the participant community engaged. All the participants gave positive feedback and felt that the workshop was highly beneficial for their future endeavors.*

*Details of the Workshop and Event:*

*This year, SUMSHODHINI 24 was conducted for two days, on 18th and 19th October 2024.*

*On 18th October:*

*One-day workshop on "CRAFTING THE COSMOS: Aerospace & Space Frontier Technologies"*

*Venue: Mechanical Seminar Hall, Block 3*

*Timings: 10:30 AM to 01:00 PM & 02:00 PM to 05:00 PM*

*On 19th October:*

*MECH GENIUS*

*VISIONARY PITCH*

*AQUA LAUNCH*

*3D VISIONARIES*

*RUSH BOTS*

*CRACKEN EGG*

Kakatiya Institute of Technology & Science, Warangal  
(An Autonomous Institute under Kakatiya University, Warangal)  
(Accredited by NAAC with "A" Grade)

ISTE KITSW Students Chapter & Technical Club - SAC KITSW  
DEPARTMENT OF MECHANICAL ENGINEERING  
PRESENTS  
WORKSHOP ON "CRAFTING THE COSMOS"  
Aerospace & Space Frontier Technologies  
Registration Fee per Student : 600/-

**Mech Genius**  
Crafting the Future of Engineering  
(Paper /Poster/ Presentation)  
Registration Fee per Student :100/-

**Visionary Pitch**  
Transforming concepts into Reality  
Registration Fee per Student : 100/-

**Aqua Launch**  
Reaching New Heights  
Registration Fee per Student : 100/-

**3D Visionaries**  
Creating Tomorrow with CAD  
Registration Fee per Student : 100/-

**Rush Bots**  
Engineering at Full Speed  
Registration Fee per Student:100/-

**Craken Egg**  
Registration Fee per Student : 100/-

18 - 19 October, 2024.

Scan Here to Register & Pay at 9121041350

Student Coordinator: S. Vinita 9121041350  
ISTE Vice President: A. Srinidhi Nayak 9390916971  
Faculty Coordinators: Sri. S. Ramesh - 9949290464, Dr. P. Anitha - 9092828939, Sri. V. Pradeep - 9177804139  
Head of Dept, ME: Dr. P. Srikanth  
Principal, KITSW: Prof. K. Ashoka Reddy

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Kakatiya Institute of Technology & Science, Warangal  
(An Autonomous Institute under Kakatiya University, Warangal)  
(Accredited by NAAC with "A" Grade)

ISTE KITSW Students Chapter (AP016) & Technical Club SAC KITSW  
DEPARTMENT OF MECHANICAL ENGINEERING  
PRESENTS  
ONE DAY WORKSHOP ON  
**CRAFTING THE COSMOS**  
Aerospace & Space Frontier Technologies  
By  
Sri. Dhruvi S. Das  
Incubation Manager at C-IRE from Founder's Lab

Registration Fee per Student: ₹600/-

Scan Here to Register & Pay at 9121041350

In Association with: SUMSHODHINI'24

18th October, 2024.

Certificates will be provided to all participants.

Student Organizers: Ch. Nikhil Reddy, 9848534056, Y.V.V. Sai Sri Suresh, 8712480250, P. Abhinav Naik, 9846213744, M. Jaya Prakash, 6302403168  
Student Coordinator: S. Vinita, President MESA 9121041350  
Faculty Coordinators: Sri. S. Ramesh, Asst. Prof. 9121041358, Sri. K. Kishor Kumar, Asst. Prof., Dr. E. Ramesh, Asst. Prof.  
MESA Faculty Coordinators: Sri. S. Ramesh, Asst. Prof., Dr. P. Anitha, Asst. Prof., Sri. V. Pradeep, Asst. Prof.  
Head of the Department: Dr. P. Srikanth, Professor, ME

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## MESA EVENT SCHEDULE- 2024-2025

S.no	Date	Name of the event
1.	23.07.2024 (Tuesday)	Awareness of MESA Activities
2.	30.07.2024 (Tuesday)	Unlock the world of research: A beginner guide for undergraduate students
3.	06.08.2024 (Tuesday)	Inaugural function of Mechanical Engineering Students Association (MESA), Introduction of MESA Body and Certificate distribution of CP, CRP presentations and course projects of 2023-24
4.	13.08.2024 (Tuesday)	Design Thinking Workshop / CAD Design Competition
5.	20.08.2024 (Tuesday)	World Entrepreneur's Day Celebration/ Innovation and Entrepreneurship
6.	27.08.2024 (Tuesday)	3D Printing and Prototyping
7.	03.09.2024 (Tuesday)	Finite Element Analysis (FEM) Workshop / FEA Competition
8.	05.09.2024 (Thursday)	Teachers' Day Celebration
9.	10.09.2024 (Tuesday)	MSE-I
10.	17.09.2024 (Tuesday)	
11.	24.09.2024 (Tuesday)	Industry Guest Lectures
12.	27.09.2024 (Friday) & 28.09.2024 (Saturday)	SUMSHODHINI TECHNICAL FEST



13.	01.10.2024 (Tuesday)	Group Discussions and Debate
14.	08.10.2024 (Tuesday)	Dussehra Vacation
15.	15.10.2024 (Tuesday)	Build Your Own Robot
16.	22.10.2024 (Tuesday)	Hackathon
17.	29.10.2024 (Saturday)	Auto-Quiz & Ingenious Solutions
18.	05.11.2024 (Tuesday)	Drone Technology Workshop
Inter Semester Break		
19.	31.12.2024 (Tuesday)	Exploring New Methods of Recycling Waste and Idea Development
20.	07.01.2025 (Tuesday)	Mock Press
21.	14.01.2025 (Tuesday)	Sankranti Vacation
22.	21.01.2025 (Tuesday)	General Quiz
23.	28.01.2025 (Tuesday)	Poster Presentation (2nd Year) and Hands-on Session on Webpage Design (3rd & 4th Years)
24.	04.02.2025 (Tuesday)	Business Plan Presentation
25.	11.02.2025 (Tuesday)	Workshop on Advanced Manufacturing Techniques
26.	18.02.2025 (Tuesday)	Mechatronics and Robotics
27.	25.02.2025 (Tuesday)	MSE-I
28.	04.03.2025 (Tuesday)	

29.	11.03.2025 (Tuesday)	Ethical Engineering Practices
30.	18.03.2025 (Tuesday)	Career Opportunities for Mechanical Engineering Students
31.	21.03.2025 (Friday) & 22.03.2025 (Saturday)	SANSKRITI CULTURAL FEST
32.	25.03.2025 (Tuesday)	Hands-on session to understand basic electronics using IoT - "IoT Electrified"
33.	01.04.2025 (Tuesday)	Innovations in Mechanical Design
34.	08.04.2025 (Tuesday)	Emerging Technologies in Mechanical Engineering
35.	15.04.2025 (Tuesday)	Future of Automation and Robotics
36.	22.04.2025 (Tuesday)	MESA Valedictory

Sri. S. Ramesh  
Dr. P. Anitha  
Sri. V. Pradeep  
Faculty In-charge MESA

Dr. P. Srikanth  
Professor of ME  
& Head





# SPORTS & GAMES

Sports and physical activities play a vital role in a student's life, and the Mechanical Engineering department stands as a shining example of this balance between academics and athletics. The department has consistently produced talented athletes who have excelled in various sports and brought pride to the institution through their dedication, teamwork, and competitive spirit.

From high-energy team sports like football, basketball, and volleyball to individual events such as badminton, table tennis, and athletics, mechanical students have shown their prowess across the board. Their performance reflects the very qualities that define an engineer—discipline, resilience, and a drive for excellence.



The highlight of the academic year 2024–25 was the Mechanical Engineering department emerging as the **Overall Championship for consecutive 2nd time in the Intramurals**, a proud moment that showcased the unity and determination of our students. Whether it was commanding victories on the field or record-breaking runs on the track, every achievement added to this glorious milestone.

This sporting success is not just about winning; it's a reflection of a culture that encourages holistic development. The Mechanical Engineering department continues to inspire future engineers to excel not only in academics but also in building strong, active, and balanced lives.



# STUDENT ACHIVEMENTS

From 2021 to 2024, I proudly served as an NCC Flight Cadet under the CAIR Co. During this tenure, I earned the prestigious NCC 'C' Certificate with an 'A' grade. I completed six flying sorties in a Microlight Aircraft at Mamnoor Air Base, Warangal, and two flying sessions in the Hawk Mk 132 Fighter Jet Simulator at the Air Force Station, Bidar, Karnataka. Additionally, I undertook numerous Microlight simulator sorties at Mamnoor Air Base.

I actively participated in several national-level NCC camps, including the Air Force Attachment Camp under the Fighter Pilot stream at AFS Bidar (2023), the Ek Bharat Shreshtha Bharat Camp in Patiala, Punjab (2023), and RDC IGC Training Camps held in Warangal and Khammam (2022).

In parallel, I was a dedicated member of the Sports and Games Club. Representing Kakatiya University, I participated in the All India Inter-University Boxing Championship held in Punjab (2020–2025) and the South-West Zone Inter-University Boxing Championship in Chandigarh (2023–2024).

I also competed in state-level boxing tournaments organized by the Telangana Boxing Federation, including the CM Cup Boxing Championship (Hyderabad, 2023) and the 5th Elite Men's State Boxing Championship (Hyderabad, 2021).



G. Shekar  
B21ME040



Competing in the All India Inter-University Boxing Championship, hosted in Punjab, was a rigorous test of athletic prowess and mental fortitude. The tournament, organized under the auspices of the Association of Indian Universities (AIU), served as a national stage for elite collegiate boxers, featuring intense matchups across weight categories. Representing Kakatiya University demanded months of disciplined preparation—early morning training sessions, strategic sparring, and meticulous attention to nutrition and recovery.

The championship environment was both exhilarating and demanding. Facing off against regionally ranked opponents exposed the nuances of diverse boxing styles, from aggressive counter-punchers to tactical out-boxers. Each bout was a lesson in adaptability, requiring split-second decision-making under physical duress. Beyond the ring, the event fostered camaraderie among athletes, with shared insights on technique and training methodologies from peers across India.

Though the competition was fierce, the experience underscored the importance of resilience. Whether navigating a close judges' decision or pushing through fatigue in later rounds, the tournament honed skills that extend beyond sports—focus under pressure, grace in victory or defeat, and the discipline to refine weaknesses into strengths. The exposure to national-level officiating standards and cutting-edge training approaches has since influenced my approach to the sport, reinforcing the value of structured preparation and mental conditioning.



**S. Saketh**

B22ME136L





During my B.Tech, I was selected for the prestigious Student Orientation Program (SOP) under the RKVY-RAFTAAR initiative, which aims to foster innovation and entrepreneurship in the agri-tech sector. This program provided me with a strong foundation in understanding the real-world challenges in agriculture and how technology can be leveraged to address them. Through expert-led sessions, mentorship, and hands-on activities, I gained valuable experience in idea generation, problem-solving, and sustainable solution design.

The SOP also gave me the opportunity to collaborate with like-minded students from diverse backgrounds, encouraging peer learning and interdisciplinary thinking. I presented my ideas and received constructive feedback from mentors, which helped refine my approach to innovation.

Additionally, I participated in the E-Summit at IIT Madras, one of India's premier entrepreneurship platforms. The event exposed me to a dynamic startup ecosystem through keynote speeches, panel discussions, and interactive workshops. It was an inspiring experience that enhanced my understanding of business models, funding strategies, and market validation.

These experiences significantly contributed to my growth, strengthening both my technical knowledge and entrepreneurial mindset. They continue to inspire my efforts to create impactful, tech-driven solutions for real-world problems.



**P. Abhinay Naik**  
**B21ME020**



I had the privilege of representing Team Force Racing, the official SAE collegiate team of our department, at the Indian Super Karting Series – Season 3, held at the MIT Group of Institutes, Ujjain. This national-level motorsport event brought together student teams from across India to design, build, and race go-karts, applying core engineering principles in a competitive environment.

As a key member of the team, I was actively involved in every phase—from initial design and CAD modeling to fabrication and performance tuning. I specifically contributed to the mechanical design and development of the steering system, while also assisting in testing and refinement of the vehicle.

The event featured various evaluation stages, including technical inspections, static presentations, brake and acceleration tests, and an endurance race. These challenges helped me strengthen my technical skills, problem-solving abilities, and teamwork, while gaining hands-on experience in vehicle dynamics and system integration.

This experience was a defining moment in my academic journey, allowing me to bridge theory with practical application, interact with peers and professionals, and grow both personally and professionally as an aspiring automotive engineer.



**S. VINITHA**  
**B22ME132L**





# STUDENT REPRESENTING CLUBS

*Over the past year, I've had the opportunity to work alongside a talented group of peers who share a passion for technology and creativity. As the photography head, one of the most rewarding aspects of my role has been collaborating with fellow students and club members to capture and showcase our innovative projects and events. From brainstorming ideas for photo shoots to coordinating the perfect shots during events, I've been continuously impressed by the teamwork and vision displayed. This role has also taught me valuable lessons in leadership, communication, and the art of visual storytelling, all of which have enhanced my skills and growth in the position.*



**Y. V. V. Sai Sri Sumanth**  
Photography Head  
PHOTOGRAPHY &  
MEDIA CLUB

*During the past year, I've had the privilege of working closely with a group of passionate and driven peers who share a strong interest in technology. One of the most fulfilling aspects of my role has been collaborating with my fellow students and club members to bring innovative ideas to life. Whether we were brainstorming new project concepts or coordinating events, I was constantly inspired by the creativity and teamwork on display. Through these experiences, I've gained valuable insights into leadership and communication, which have been instrumental in my growth as the joint secretary.*



**S. VINITHA**  
Joint secretary  
Technical Club



*In the past year, I've had the opportunity to be part of a dedicated group of peers in the Disciplinary Club. As a member, one of the most rewarding aspects has been working together with others to support and uphold the values of discipline within our community. Whether it was assisting in organizing events or helping to ensure things ran smoothly, I've been consistently inspired by the commitment and teamwork of the group. This experience has also taught me valuable lessons in responsibility, communication, and problem-solving, all of which have contributed to my personal growth*



**Gugulothu Shekar**  
Member: Disciplinary club

*In the span of the year, I've had the privilege of being part of a committed team in the Disciplinary Club. As a member, one of the most fulfilling aspects has been collaborating with others to promote and maintain discipline within our community. Whether it was supporting event organization or helping ensure everything ran seamlessly, I've been continuously motivated by the dedication and teamwork of the group. This experience has also provided me with valuable lessons in accountability, communication, and problem-solving, all of which have played a key role in my personal development.*



**S. Saketh**  
Member: Disciplinary club

*During the previous year, I've had the privilege of serving as the joint secretary of the NCC, working closely with a dedicated group of peers. One of the most rewarding aspects of my role has been collaborating with fellow members to uphold the values of discipline, teamwork, and leadership within the NCC. Whether it was organizing events or coordinating activities, I've been consistently inspired by the commitment and cooperation of the team. This experience has also provided me with valuable lessons in leadership, communication, and problem-solving, all of which have contributed significantly to my growth in this position.*



**Azmeera Srinidhi Nayak**  
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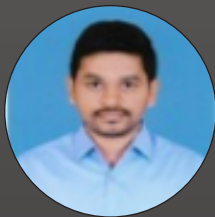
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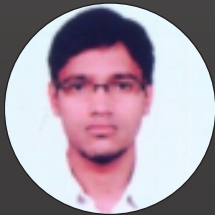
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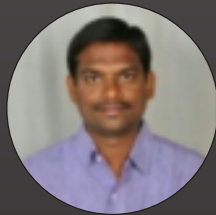
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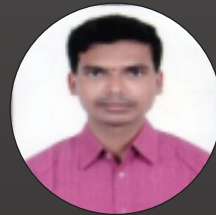
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Non-Teaching Faculty



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Non-Teaching Faculty



Ms. Rubeena Begum  
Non-Teaching Faculty



Sri P. Rajinikanth  
Non-Teaching Faculty



Sri K. Ravi Kumar  
Non-Teaching Faculty



# B. TECH MECH-1 (2021-2025)



NAME: Gandham Karthik  
Roll No:B21ME001  
Mobile No:9014821906  
Email:kbunny698@gmail.com  
Home Town:Bhupalpally



NAME: Maniteja Vilasagarapu  
Roll No:B21ME003  
Mobile No:7670906196  
Email:manitejavilasagarapu@gmail.com  
Home Town:Warangal



NAME: Naini Shivasailikith  
Roll No:B21ME004  
Mobile No:8639369445  
Email:shivasailikith@gmail.com  
Home Town:Station Ghanpur



NAME: Bhanoth Shirisha  
Roll No:B21ME005  
Mobile No:9848756544  
Email:Bhanothshirishaammu@gmail.com  
Home Town:Hyderabad



NAME: Jaligapu Sachin  
Kundamji  
Roll No:B21ME008  
Mobile No:7569805163  
Email: skundamji@gmail.com  
Home Town: Hanamkonda



NAME: Konda Sharath  
Roll No:B21ME010  
Mobile No:9866006561  
Email:sharathkonda65@gmail.com  
Home Town:Mancheril



NAME: Goli Abhilash  
Roll No:B21ME011  
Mobile No: 7032507543  
Email:  
Home Town:



NAME: Saranya Louise Marie  
Roll No:B21ME012  
Mobile No:9550962023  
Email:Saranyalouisemarie@gmail.com  
Home Town:Kazipet



NAME: Jasti Lokesh  
Roll No:B21ME015  
Mobile No:6302365040  
Email:lokeshjasti07@gmail.com  
Home Town:Warangal



NAME: Bhukya Srikanth  
Roll No:B21ME016  
Mobile No:9573342021  
Email:srikanthbhukya56@gmail.com  
Home Town:Nizamabad



NAME: Gudugula Sai Prashanth  
Roll No:B21ME017  
Mobile No:6301992875  
Email:prashanthgudugula@gmail.com  
Home Town:Jangaon



NAME: Porika Abhinay Naik  
Roll No:B21ME020  
Mobile No:9346213744  
Email:abhinaynaikporika@gmail.com  
Home Town:Mulugu





# B. TECH MECH-1 (2021-2025)



NAME: Endla Katyayini  
Roll No:B21ME022  
Mobile No:9392241816  
Email:Katyayiniendla@gmail.com  
Home Town:Hanamkonda



NAME: Ahmed Ziauddin  
Roll No:B21ME023  
Mobile No:9121771221  
Email:a.ziauddin2163@gmail.com  
Home Town:Hanamkonda



NAME: Mekala Nithin  
Roll No:B21ME025  
Mobile No: 7732064051  
Email:nithinmekala24@gmail.com  
Home Town: Nagaram



NAME: Gangarapu Dileep  
Roll No:B21ME030  
Mobile No:7794993850  
Email:dileepgangarapu23@gmail.com  
Home Town:Jagityal



NAME:Y V V Sai Sri Sumanth  
Roll No: B22ME121L  
Mobile No: 8712188290  
Email:srisumanthyerravelly@gmail.com  
Home Town: Hanamkonda



NAME: Pendam Vikas  
Roll No:B22ME122L  
Mobile No: 6302687026  
Email:vikasvikey11111@gmail.com  
Home Town: Warangal



NAME: Bitla Varun  
Roll No:B22ME123L  
Mobile No: 7337098444  
Email:bitlavarun03@gmail.com  
Home Town: Hanamkonda



NAME: Kothapalli Subhash  
Roll No:B22ME124L  
Mobile No: 6301186489  
Email:subhashkothapalli48@gmail.com  
Home Town: Madikonda



NAME: Dornala Shashi preetham  
Roll No:B22ME125L  
Mobile No: 9390295270  
Email:shashipreethamdornala1604@gmail.com  
Home Town: Hanamkonda



NAME: Chaparthy Siddhartha  
Roll No:B22ME126L  
Mobile No:9963388057  
Email:siddharthachaparthy@gmail.com  
Home Town:Warangal



NAME: Mohammed Ghouse Mohiuddin  
Roll No:B22ME127L  
Mobile No:9391728778  
Email:ghousemohiuddinmohamed87@gmail.com  
Home Town: Hanamkonda



NAME: Are Pranay  
Roll No: B22ME128L  
Mobile No: 9059761125  
Email:pranaypannu123@gmail.com  
Home Town: Hanamkonda





# B. TECH MECH-1 (2021-2025)



NAME: Thota Siddhartha  
Roll No: B22ME130L  
Mobile No: 9989042375  
Email:  
Home Town: Warangal



NAME: Mateti Suhas Chandra  
Roll No: B22ME131L  
Mobile No: 9391906277  
Email:  
matetisuhascchandhramsc@gmail.com  
Home Town: Warangal



NAME: MADHARI SRIJA  
Roll No: B20ME011  
Mobile No: 6281930993  
Email:  
srijamadhari414@gmail.com  
Home Town: Jayashankar  
bhupalpally



NAME: MANDALA  
KARTHIK  
Roll No: B20ME018  
Mobile No: 7702808859  
Email:  
mandalakarthik007@gmail.com  
Home Town: Warangal



NAME: KADIDALA ARYAN  
YADAV  
Roll No: B20ME036  
Mobile No: 7337008767  
Email:  
aryanramyadav@gmail.com  
Home Town: Warangal



# B. TECH MECH-2 (2021-2025)



NAME: Nulu Veera Sai Teja  
Roll No:B21ME031  
Mobile No: 9951523946  
Email:  
veerasaitejan@gmail.com  
Home Town: Madikonda



NAME: Md Muzammil Ayub Khan  
Roll No:B21ME032  
Mobile No:9849524781  
Email:mohammedmuzammilayubkhan@gmail.com  
Home Town:Karimnagar



NAME: Pervala Anusri  
Roll No:B21ME033  
Mobile No: 7569894773  
Email:  
anusripervala20@gmail.com  
Home Town: Narsampet



NAME: Marupaka Sai Rishwanth  
Roll No:B21ME034  
Mobile No:8328153046  
Email:  
marupakasairishwanth@gmail.com  
Home Town: Jayashankar bhupalpally



NAME: Kotagiri Aravind  
Roll No:B21ME036  
Mobile No: 9160390600  
Email:  
kotagiriaravind09@gmail.com  
Home Town:Warangal



NAME: Mohammed Sumeer  
Roll No:B21ME037  
Mobile No:6281433292  
Email:sumeermec37@gmail.com  
Home Town:HANAMKONDA



NAME: Kodepaka Anvesh  
Roll No:B21ME038  
Mobile No:8106002616  
Email:anveshkodepaka6@gmail.com  
Home Town:Nerella



NAME: Vankudoth Rahul  
Roll No:B21ME039  
Mobile No:7013891073  
Email:rahulvankudoth425@gmail.com  
Home Town: Mahabubabad



NAME: Gugulothu Shekar  
Roll No:B21ME040  
Mobile No: 9390800723  
Email:  
shekarb21me040@gmail.com  
Home Town: Warangal



NAME: Malothu Thanuj  
Roll No:B21ME041  
Mobile No:9347637219  
Email:  
thanujnayak184@gmail.com  
Home Town: Warangal



NAME: Malothu Sathish  
Roll No:B21ME042  
Mobile No:9573970513  
Email:malothusathish19@gmail.com  
Home Town:WARANGAL



NAME: Allam Shylaja  
Roll No:B21ME044  
Mobile No:6302757087  
Email:allamshylaja@gmail.com  
Home Town: Thorur





# B. TECH MECH-2 (2021-2025)



NAME: Musaib Ahmed Sultan  
Roll No:B21ME047  
Mobile No:8688523805  
Email:ahmeddsultan8055@gmail.com  
Home Town:warangal



NAME: Md Sameer  
Mohammad Khan  
Roll No:B21ME048  
Mobile No:9502401705  
Email:md1961566@gmail.com  
Home Town:Jammikunta



NAME: Nanda Venkatesh  
Roll No:B21ME049  
Mobile No:8790078587  
Email:venkatesh.nanda56@gmail.com  
Home Town:Hasanparthy



NAME: Azmeera Srinidhi Nayak  
Roll No:B21ME051  
Mobile No:9390916971  
Email:azmeerasrinidhinayak@gmail.com  
Home Town:Mulugu



NAME: Dharavath Tharun  
Roll No:B21ME052  
Mobile No:9014529622  
Email:tharundharavath419@gmail.com  
Home Town:Warangal



NAME: Gandham Amarnath  
Roll No:B21ME053  
Mobile No:9346816830  
Email:gandhamamarnath60@gmail.com  
Home Town:warangal



NAME: Lakavath Shivaji  
Roll No:B21ME054  
Mobile No:6305258376  
Email:Lakavathshivaji1234@gmail.com  
Home Town:Kitsw



NAME: Nadava Jasper  
Roll No:B21ME055  
Mobile No:9390504975  
Email:jasperajax2244@gmail.com  
Home Town:Warangal.



NAME: Banoth Naresh  
Roll No:B21ME056  
Mobile No: 7032403391  
Email:banothnaresh019@gmail.com  
Home Town: Raiparthy



NAME: Sherla Ravalika  
Roll No:B21ME057  
Mobile No: 8125962507  
Email:sherlaravalika205@gmail.com  
Home Town: Hanamkonda



NAME: Thummeti Akshay  
Kumar  
Roll No:B21ME058  
Mobile No:7036808302  
Email:thummetiakshaykumar@gmail.com  
Home Town: warangal



NAME: Mohammed Nashit  
Roll No:B21ME059  
Mobile No:8125768843  
Email:mohammednashit1@gmail.com  
Home Town:Hanamkonda



# B. TECH MECH-2 (2021-2025)



NAME: Sunku Vinitha  
Roll No:B22ME132L  
Mobile No:9121041350  
Email:vinithasunku@gmail.com  
Home Town: Hanamkonda



NAME: Peddi Naga Charan  
Roll No:B22ME133L  
Mobile No:9392865275  
Email:nagacharannani@gmail.com  
Home Town:Warangal



NAME: Pasunuti Venkateshwarlu  
Roll No:B22ME134L  
Mobile No:8978845147  
Email:pasunutivenkateshwarlu222@gmail.com  
Home Town: Hanamkonda



NAME: Shazia Parveen  
Roll No:B22ME135L  
Mobile No:6301394621  
Email:vaheedabegumbegum@gmail.com  
Home Town:KAZIPET



NAME: Sheelam Saketh  
Roll No:B22ME136L  
Mobile No:6309784248  
Email:sheelamsaketh.sambaiah@gmail.com  
Home Town:Hasanparthy  
hanamakonda



NAME: Appala Tharun  
Roll No:B22ME137L  
Mobile No:8309520586  
Email:tharunappalla2003@gmail.com  
Home Town:Warangal



NAME: Kudipudi Revanth  
Roll No:B22ME138L  
Mobile No:8977666414  
Email:kudipudirevanth@gmail.com  
Home Town:KOTHAGUDEM



NAME: Racharla Sravani  
Roll No:B22ME139L  
Mobile No:7337034211  
Email:racharlasravani8185@gmail.com  
Home Town:Warangal



NAME: Guguloth Nithin  
Roll No:B22ME140L  
Mobile No:7095926684  
Email:gugulothnithin@gmail.com  
Home Town:Wardhanapet



NAME: Akula Ganesh  
Roll No:B22ME141L  
Mobile No:6305040978  
Email:ganeshganiig@gmail.com  
Home Town:Thadicherla



NAME: Nishal Reddy  
Roll No:B22ME142L  
Mobile No:9844534056  
Email:Nishalreddy0@gmail.com  
Home Town:Hanamkonda



NAME: PARISHE VINAY KUMAR  
Roll No:B20ME094  
Mobile No:7893348115  
Email:Shinkeyparishe@gmail.com  
Home Town:Govindaraopet





# CONCLUDING LINES

We would like to take a moment to sincerely thank our institution for the immense role it has played in shaping our journey over the past few years. This place has been more than just a college to us it has truly been our second home. We are incredibly grateful for the countless opportunities, unwavering support, and invaluable guidance we received throughout our time here.

Words fall short when it comes to expressing our appreciation for the nurturing environment that allowed us to grow not just as students, but as individuals. Our heartfelt thanks go out to the dedicated faculty and our esteemed Head of Department, whose passion for teaching and constant encouragement have greatly influenced our personal and academic development. We feel fortunate to have learned from such committed and inspiring mentors.

As we reflect on our journey, we are filled with pride and gratitude for the experiences, achievements, and memories we've collected. The knowledge, skills, and values instilled in us will forever guide us in the paths we choose to pursue. These learnings are not just limited to textbooks—they have become a part of who we are.

The friendships we've formed and the memories we've made during our time here will always hold a special place in our hearts. To our respected Principal, HoD, all the teaching and non-teaching staff—thank you for being such an integral part of our B.Tech. experience. Your efforts and encouragement have played a crucial role in shaping us into the individuals we are today.

Our time here was not just about academic excellence—it was about the emotional bonds we created, the connections we built, and the community we became a part of. These relationships will remain close to our hearts for years to come.

Thank you, from the bottom of our hearts, for being a part of our journey. Your impact on our lives is lasting, and your presence will always be remembered with deep appreciation and respect.



# SPECIAL THANKS!

*Finally, yet importantly I, Sunku Vinitha - B22ME132L, President of Mechanical Engineering Association would like to express gratitude for each and everyone for their timely support in shaping out the magazine. We are falling short of adjectives to praise you people; which really apt for your efforts, hard work and dedication.*

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**Y.V.V.Sai Sri Sumanth - B22ME121L**







Dr. P Srikanth  
PROFESSOR & HEAD, MED



Sri. S. Ramesh  
FACULTY INCHARGE, MESA



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