

TECHNOMECH

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DEPARTMENT OF MECHANICAL ENGINEERING

REDESIGNING YOUR FUTURE. EMPOWERING YOUR NOW.

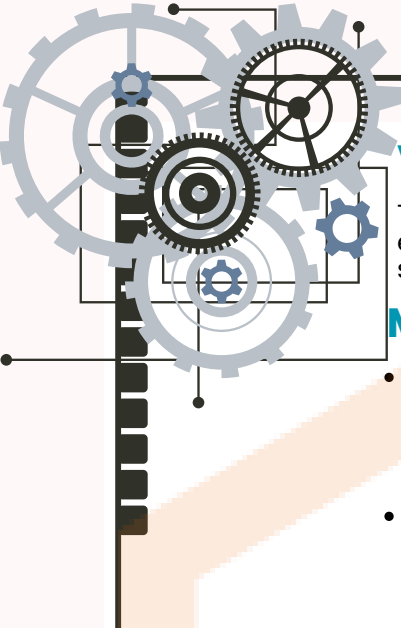
MANGALORE INSTITUTE OF TECHNOLOGY & ENGINEERING

(A Unit of Rajalaxmi Education Trust®, Mangalore)

Autonomous Institute affiliated to VTU, Belagavi, Approved by AICTE, New Delhi

Accredited by NAAC with A+ Grade & ISO 9001:2015 Certified Institution





DEPARTMENT OF MECHANICAL ENGINEERING

VISION

To provide globally competitive Mechanical Engineering education and advance research that drives sustainable technological solutions for society.

MISSION

- To deliver quality Mechanical Engineering education through innovative pedagogy, hands-on learning, and industry collaboration, nurturing globally competent engineers with professional ethics and problem-solving skills.
- To promote research, innovation, and lifelong learning in Mechanical Engineering, fostering sustainable technological solutions that address societal and industrial challenges.

PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

After successful completion of the program, the graduates will be

- Demonstrate technical competence in core and emerging areas of Mechanical Engineering, applying scientific and practical knowledge to solve real-world problems.
- Pursue innovation, research, and entrepreneurial ventures, adapting to evolving technological trends through lifelong learning.
- Uphold ethical and professional standards, practice social responsibility, and contribute to sustainable development, both individually and in collaborative settings.
- Exhibit leadership, effective communication, and interpersonal skills required to thrive in multidisciplinary and multicultural environments.

PROGRAM SPECIFIC OUTCOMES (PSOS)

At the end of the program, Mechanical Engineering graduates will be

- Proficient in applying core Mechanical Engineering principles and interdisciplinary knowledge to design, analyze, manage and select suitable manufacturing processes for the efficient production of mechanical systems.
- Competent in analyzing and operating thermal and fluid systems, including HVAC, power generation and electric vehicles, with an emphasis on energy efficiency and environmental sustainability.





DR. C R RAJASHEKAR

**HEAD OF THE DEPARTMENT & VICE PRINCIPAL
MECHANICAL ENGINEERING**



HOD'S DESK

It gives me great pleasure to present this edition of Mech Mites, the official newsletter of the Department of Mechanical Engineering. Over the years, Mech Mites has served as a vibrant platform for showcasing the academic, research, professional, and extracurricular accomplishments of our faculty, staff, and students. This edition reflects the department's continued commitment to excellence, innovation, and holistic development.

The newsletter highlights a diverse range of departmental activities, including Faculty Development Programmes, expert lectures, hands-on workshops, industrial visits, technical events, and the significant contributions of our faculty and students. It also celebrates the remarkable achievements of our students and faculty members, whose dedication, perseverance, and pursuit of excellence continue to bring recognition to the department and the institution.

These initiatives provide valuable opportunities for experiential learning, strengthen industry-academia interaction, and cultivate technical competence, creativity, and professional skills among our students. They reinforce our vision of developing competent mechanical engineers who are well-equipped to address the challenges of a rapidly evolving technological landscape.

As a department, we remain committed to the vision of our institution by continuously enhancing the quality of teaching, research, innovation, and professional development. The enthusiasm, dedication, and collaborative spirit demonstrated by our faculty and students inspire us to achieve new milestones each year. I extend my sincere appreciation to everyone who has contributed to this edition and wish our readers an engaging and enriching experience with Mech Mites.

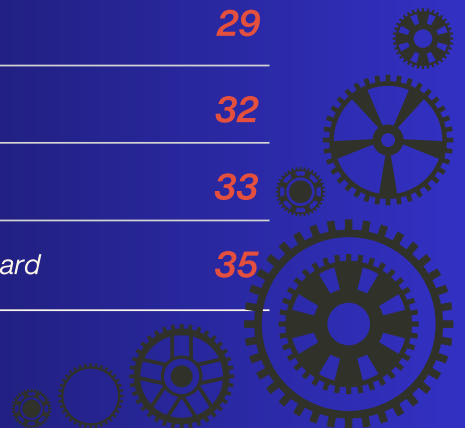


2026



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DEPARTMENT ACTIVITIES

BEYOND THE BLUEPRINTS: SHIFTING GEARS INTO EXPERIENTIAL EXCELLENCE ENGINEERING IS INHERENTLY DYNAMIC.

At the Department of Mechanical Engineering, we have always maintained that a true engineer cannot be forged within the confines of four lecture walls alone. While textbooks provide the essential blueprints, it is the practical exposure, the trial and error on the shop floor, and the sparks of innovation in the laboratory that truly mold a professional.

This dedicated section of our department magazine stands as a proud testament to that very philosophy. It curates a vibrant, year-long spectrum of co-curricular activities—Workshops, Faculty Development Programs (FDPs), Industrial Visits, and Specialized Technical Trainings—that have energized our department and defined our academic journey over the past year.

Redefining the Modern Engineer

In today's fast-evolving technological landscape, characterized by autonomous systems, smart manufacturing, and sustainable energy, stagnation is the equivalent of moving backward. The modern industrial sector does not just demand degree holders; it demands problem solvers, disruptors, and visionaries. Recognizing this paradigm shift, our department places immense emphasis on immersive, experiential learning.

The Pillars of Our Dynamic Ecosystem

To achieve this holistic development, the department continuously drives several key initiatives:

Immersive Workshops & Technical Trainings: These sessions act as a catalyst for innovation. By engaging directly with advanced simulation software, modern machining tools, and automation kits, students transform abstract theories into tangible skills. It is here that raw curiosity meets industrial capability.

Industrial Visits: The manufacturing floor is the ultimate classroom. Through organized visits to premier production facilities, automated plants, and heavy engineering hubs, our students witness the scale, precision, and discipline required in the real world. They learn the language of industry long before they graduate.

Faculty Development Programs (FDPs): An institution is only as forward-thinking as its educators. Our FDPs ensure that our faculty members are constantly upskilling, engaging with cutting-edge research, and adopting global pedagogical practices. This directly enriches our classrooms, keeping our curriculum alive, urgent, and deeply relevant.

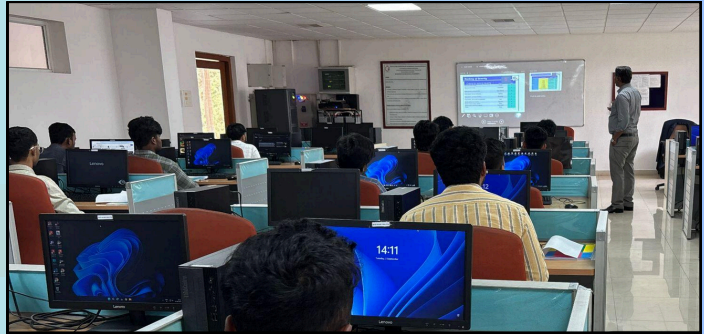
Every seminar organized, every industry mile traveled, and every certificate earned represents a deliberate step toward engineering excellence.

The Department of Mechanical Engineering at MITE remains unyielding in its commitment to fostering a culture of relentless curiosity and robust industry-academia synergy. We invite you to explore these pages and witness the sheer dedication of our faculty and the boundless enthusiasm of our students.

WE DON'T JUST STUDY THE GEARS OF CHANGE—WE MACHINE THEM!

DEPARTMENT ACTIVITIES

WORKSHOP TOTAL QUALITY MANAGEMENT TOOLS FOR ENGINEERING APPLICANTS



The Department of Mechanical Engineering successfully organized a three-day workshop on “TQM Tools for Engineering Applications” from 1st to 3rd September 2025 under the theme Innovation and Design Thinking. The workshop was conducted by Mr. Raghavendra V, Deputy Manager – Quality Assurance, Toyota Industries Engine Pvt. Ltd., Bengaluru, and witnessed active participation from students and faculty members.

The primary objective of the workshop was to introduce students to the importance of Total Quality Management (TQM) and its practical applications in modern engineering industries. Through engaging sessions and real-world examples from the automotive sector, the resource person emphasized the significance of data-driven decision-making and continuous improvement in engineering processes. Students were exposed to the Seven Basic Quality Tools, which serve as powerful instruments for identifying, analyzing, and solving quality-related problems.

Participants gained hands-on understanding of tools such as Pareto Charts, Cause-and-Effect (Fishbone) Diagrams, Control Charts, Histograms, Scatter Diagrams, Check Sheets, and Flowcharts. The sessions demonstrated how these tools can be effectively used to prioritize issues, identify root causes, monitor process stability, analyze data trends, and improve manufacturing efficiency. Practical illustrations related to engine development and automotive manufacturing made the concepts easy to understand and highly relevant to mechanical engineering applications.

The workshop encouraged students to move beyond theoretical knowledge and adopt a systematic approach to quality improvement. It highlighted the importance of proactive problem-solving, process optimization, and operational excellence in engineering practice. By the end of the program, participants had developed valuable analytical skills and a deeper appreciation for quality management methodologies.

DEPARTMENT ACTIVITIES

WORKSHOP "DATA ACQUISITION AND VIRTUAL INSTRUMENTATION USING LABVIEW"



The Department of Mechanical Engineering at Mangalore Institute of Technology & Engineering (MITE), Moodbidri, hosted an impactful one-day hands-on technical workshop titled "Data Acquisition and Virtual Instrumentation using LabVIEW" on September 26th, 2025. Organized under the aegis of the Internal Quality Assurance Cell (IQAC), MITE, this career-focused initiative aimed to bridge traditional classroom concepts with modern, industry-oriented practices in measurement systems. The workshop featured Mr. Ajith Kumar, Senior Assistant Professor from the Department of Aeronautical Engineering, as the expert resource person. The interactive training provided students with essential core exposure to data acquisition architectures, advanced sensors, signal conditioning, and graphical programming paradigms, establishing a solid foundation for their future technical paths.

Held inside the Advanced Mechatronics Lab, the specialized sessions immersed participants in an experiential, multi-track learning environment. Under expert faculty guidance, students actively designed virtual instruments, developed functional block diagrams, and programmed data acquisition system (DAQ) modules using LabVIEW software. They gained practical experience executing real-time data collection, physical property visualization, and data analysis through hands-on experiments. Crucially, the training elevated critical thinking and system integration competencies, directly addressing key engineering outcomes and Sustainable Development Goals related to quality education and industry innovation. The workshop concluded with outstanding participant feedback, as students praised the direct relevance of the exercises to modern engineering practices. By demystifying virtual instrumentation, MITE has successfully empowered its students with vital tool-usage skillsets necessary for professional excellence.

DEPARTMENT ACTIVITIES

WORKSHOP HANDS-ON TRAINING ON FOUNDRY & CASTING PRACTICES



The Department of Mechanical Engineering at Mangalore Institute of Technology & Engineering (MITE), Moodbidri, hosted a one-day interactive workshop titled “Hands-on Training on Foundry & Casting Practices” On October 3, 2025. Held at the campus’s Foundry & Forging Lab within the Mechanical Block, the program was organized in collaboration with MITE-IQAC under the global framework of SDG 9: Industry, Innovation, and Infrastructure. The primary objective of the workshop was to provide students with essential practical exposure to industrial manufacturing workflows, with a specific focus on casting processes, mould preparation, gating design, pouring techniques, and defect identification.

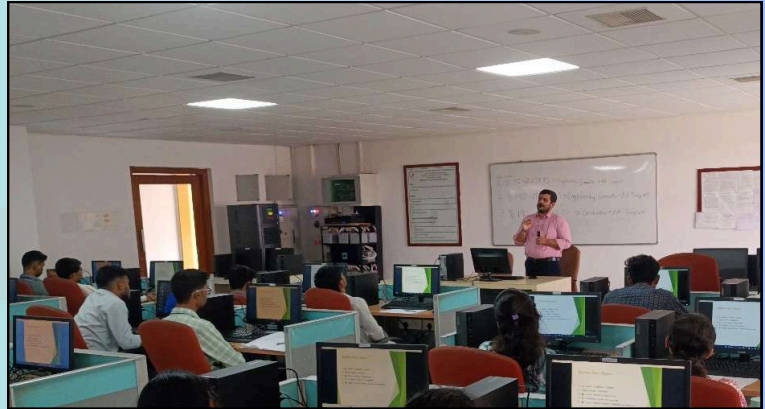
The underlying curriculum was built around three key educational targets:
To provide participants with direct, practical exposure to the sequential stages of mould preparation, melting, and pouring. To familiarize students with the principles of gating design alongside methods to accurately identify and minimize common casting defects. To develop an application-oriented mindset regarding casting practices and their operational relevance across various manufacturing industries.
Workshop Proceedings

The forenoon session provided a robust introduction to foundational casting concepts. The instructional timeline covered an introduction to casting, the theory of mould preparation, principles of gating design, and the core methodologies governing melting and pouring practices. The afternoon session transitioned entirely into a practical, immersive laboratory environment. Under direct guidance, participants engaged in hands-on mould preparation and witnessed the physical melting and pouring of an aluminum alloy. This was followed by the cooling and shakeout of the mould, practical identification of casting defects, and an interactive discussion segment that finalized with closing comments.

DEPARTMENT ACTIVITIES

WORKSHOP

"THE START-UP FINANCIAL BLUEPRINT: FROM IDEA TO INVESTMENT"



The Department of Mechanical Engineering and Aeronautical Engineering at Mangalore Institute of Technology & Engineering (MITE) jointly organized a transformative one-day workshop titled "The Start-up Financial Blueprint: From Idea to Investment" on October 8th, 2025. Aimed at imparting crucial financial literacy to future technocrats, the session was led by esteemed Chartered Accountant CA Vishveshwara Perya, Managing Partner at P R Shetty and Associates. More than 80 students actively participated in this cross-disciplinary initiative designed to seamlessly bridge the gap between engineering and business finance. The workshop introduced participants to various forms of business organizations, standard double-entry bookkeeping, the Golden Rules of Accounting, and foundational concepts of assets, liabilities, and equity. By emphasizing the strategic value of financial intelligence, the seminar demonstrated how fiscal awareness uniquely equips modern engineers to manage industrial projects and confidently launch entrepreneurial ventures.

During the interactive sessions, students dived into the structure and practical interpretation of core financial reports, including Balance Sheets, Income Statements, and Cash Flow Statements. Under expert guidance, participants applied ratio analysis tools to evaluate business profitability and efficiency, while performing hands-on exercises to calculate break-even points and contribution margins using sample datasets. Crucially, the program incorporated real-world case studies and insightful discussions on corporate frauds to sensitize students to business ethics, governance, and transparent reporting. The workshop concluded with outstanding participant feedback, as students reported a massive boost in their confidence to interpret corporate financial health. By demystifying start-up financial architectures, MITE has successfully empowered its engineers with vital commercial skills for their future managerial endeavors.

DEPARTMENT ACTIVITIES

WORKSHOP

"HEAT TRANSFER PROBLEM SOLVING ON MAT LAB"



The Department of Mechanical Engineering at Mangalore Institute of Technology & Engineering (MITE), Moodabidri, hosted an engaging one-day hands-on technical workshop titled "Heat Transfer Problem Solving on MAT Lab" on November 7th, 2025. Specifically designed for third and final-year Mechanical Engineering students, the comprehensive training program aimed to bridge the critical gap between complex theoretical principles and modern computational applications. The technical session was inaugurated by Dr. Prashantha Acharya, Head of the Department of Mechanical Engineering, who highlighted the crucial importance of simulation tools in addressing intricate engineering issues. Led by Mr. Avinash Hegde, an expert Assistant Professor from MITE with an extensive background in thermal subjects and computational modeling, the initiative successfully empowered participants to elevate their analytical workflows and programming skills to align with current industry expectations.

Throughout the interactive workshop, students were first introduced to MATLAB's user interface, basic syntax, and matrix operations before quickly transitioning into practical engineering applications. Under expert guidance, participants developed functional scripts to analyze one-dimensional steady-state heat conduction, transient conduction via explicit and implicit methods, convection correlations, and heat exchanger performance metrics. By writing scripts, debugging code, and generating graphical plots to visualize temperature distributions and thermal gradients, the engineers gained vital experience in computational thinking. The event concluded with exceptionally positive student feedback, highlighting a substantial boost in computational confidence and an ideal balance between theory and simulation. This successful initiative underscores MITE's ongoing dedication to providing future-focused, skill-driven technical education that prepares its students for professional excellence.

DEPARTMENT ACTIVITIES

WORKSHOP

"DESIGN OF FLUID POWER CIRCUITS USING MATLAB"



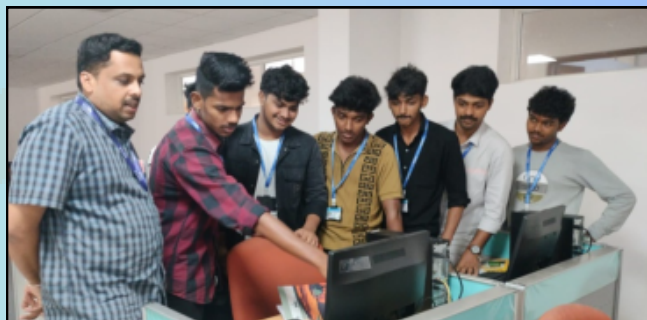
The Department of Mechanical Engineering at Mangalore Institute of Technology & Engineering (MITE), Moodabidri, hosted an impactful two-day workshop titled "Design of Fluid Power Circuits using MATLAB" on November 17th and 18th, 2025. Organized in association with MathWorks and CoreEL Technologies Pvt. Ltd., the intensive training program was specifically designed for fifth and seventh-semester students from the Mechanical and Mechatronics Engineering streams. The technical event highlighted the critical value of computer-aided simulation in modern industrial automation. The workshop aimed to bridge the traditional gap between classroom theoretical principles and modern engineering practices by introducing students to complex computational modeling frameworks.

Participants gained valuable hands-on experience in the modeling, simulation, and analysis of hydraulic and pneumatic systems using MATLAB and Simulink. Guided through structured training tracks, the young engineers actively explored various modeling paradigms, learning to construct functional fluid power circuits, implement hydraulic actuation controls, and map complex pneumatic logic circuits. Under expert guidance, students successfully simulated system performance and optimized circuit parameters to maximize operational efficiency and control accuracy. The event concluded with exceptionally positive feedback, as students reported a substantial boost in their design confidence and computational tool-usage capabilities. This successful initiative perfectly underscores MITE's ongoing dedication to delivering advanced, industry-aligned technical skillsets that effectively prepare its graduates for professional engineering excellence.

DEPARTMENT ACTIVITIES

WORKSHOP

"COMPUTATIONAL METHODS FOR THERMODYNAMIC PROBLEMS USING MATLAB"



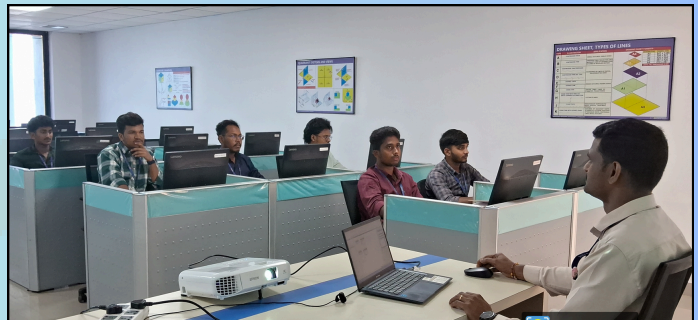
The Department of Mechanical Engineering at Mangalore Institute of Technology & Engineering (MITE), Moodabidri, hosted an impactful one-day workshop titled "Computational Methods for Thermodynamic Problems Using MATLAB" on November 22nd, 2025. Organized under the aegis of MITE-IQAC, the initiative specifically targeted third-semester Mechanical Engineering students to enhance their understanding of core thermodynamic principles through advanced computational techniques. The workshop focused on bridging the traditional gap between classroom theory and practical computational problem-solving.

Throughout the interactive sessions inside the CAED Laboratory, participants gained vital hands-on experience by navigating the MATLAB environment and exploring complex thermal equations. Under expert guidance, the young engineers actively applied the Zeroth and First Laws of Thermodynamics to both open and closed systems, modeled heat and work interactions, and learned to accurately interpret pressure-volume ($p-v$) diagrams. The intensive training track included practical problem-solving demonstrations involving diverse air and steam processes, which substantially boosted the students' computational confidence and analytical engineering competencies. The event concluded with highly positive student feedback, highlighting a successful integration of theoretical frameworks with numerical exercises. This career-oriented initiative perfectly underscores MITE's ongoing dedication to delivering advanced technical skill sets that prepare future technocrats for professional industry challenges.

DEPARTMENT ACTIVITIES

WORKSHOP

"FUNDAMENTALS OF STATIC STRUCTURAL ANALYSIS OF MECHANICAL COMPONENTS USING ANSYS WORKBENCH"



The Department of Mechanical Engineering at Mangalore Institute of Technology & Engineering (MITE), Moodbidri, hosted an impactful one-day hands-on technical workshop titled "Fundamentals of Static Structural Analysis of Mechanical Components Using ANSYS Workbench" on November 7th, 2025. Organized under the aegis of MITE's Internal Quality Assurance Cell (IQAC), the career-focused initiative aimed to bridge traditional classroom learning with modern computer-aided simulation protocols. The specialized training sessions were directly led and coordinated by Dr. Prashantha, an expert Assistant Professor with an extensive background in materials science and finite element analysis (FEA). The workshop was explicitly designed to give future technocrats essential practical exposure to advanced simulation workflows, preparing them to seamlessly meet the rigorous analytical and modeling expectations of today's fast-evolving manufacturing and design industries.

Throughout the event, participants were deeply immersed in a well-balanced learning track inside the CAAD laboratory. Students first navigated fundamental FEA engineering concepts and the core project workspace before transitioning into practical software operations using ANSYS Design Modeler. Under expert faculty guidance, the young engineers practiced geometry importing, material assignment, precise meshing, and the application of realistic boundary conditions for standard tensile and flexural specimens. Advanced afternoon modules further expanded their software competencies through focused demonstrations on reducing structural stress concentrations alongside hands-on practice with mesh convergence techniques. Ultimately, the immersive training enabled students to confidently interpret real-world simulation data such as stress, strain, and deformation to make informed design decisions. This highly successful workshop concluded with exceptional student feedback, highlighting MITE's continuous commitment to aligning academic excellence with modern industrial tool usage and sustainable developmental skill sets.

DEPARTMENT ACTIVITIES

EXHIBITION

INNOVATION-2025



The Department of Mechanical Engineering at MITE Moodabidri successfully conducted "Innovation-2025," On Saturday, November 29, 2025 the annual Final-Year Project Exhibition. A total of 17 final-year students, divided into 7 distinct project teams, presented their innovative research, technical posters, and working prototype models. The event served as an active interface between academia and industry, attended by faculty members, students from various departments, and industry representatives. The presentations were evaluated by external industry judges Mr. Adithya Kumar and Mr. Naresh Devadiga, Managing Partners of NAD Engineering Solutions.

Project Highlights and Jury Evaluation The exhibition covered a broad spectrum of engineering domains, including advanced materials, automotive safety, agricultural mechanization, embedded systems, and additive manufacturing. The judges spent significant time examining each prototype and offering valuable technical feedback. Key highlights included the interdisciplinary engineering behind a Smart Cooking Ladle and an AGV Parking Robot, alongside a structural study on 3D-printed PLA Honeycomb panels.

The jury commended several projects for their practical utility and originality. They highlighted the immense agricultural potential of the Portable Wild Arecanut Dehusker for coastal Karnataka farmers while recommending production-rate optimization. The Al/Magnetite Nanocomposite project was praised for its rigorous research and publication potential. Furthermore, the judges recommended commercialization steps for an innovative Tyre Support Mechanism and suggested AI camera integrations for a black pepper plucking device. Overall, Innovation-2025 proved to be an outstanding success, successfully reinforcing industry-academia collaboration and showcasing the technical competence of the final-year students.

DEPARTMENT ACTIVITIES

WORKSHOP ADVANCED MACHINING



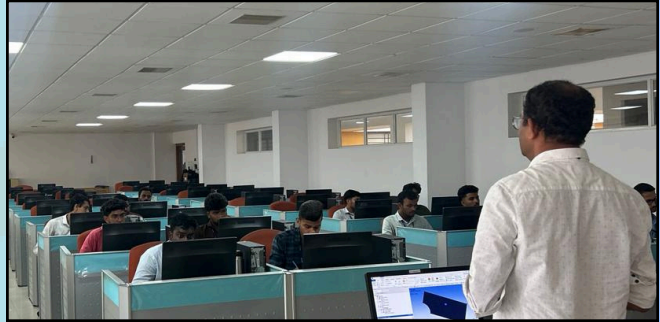
The Department of Mechanical Engineering at MITE, Moodbidri, in association with GTTC, Mangalore, organized a one-day hands-on workshop titled **“Advanced Machining”** On December 1, 2025. Coordinated by GTTC training staff and supported by MITE faculty, the program provided practical exposure to modern industrial workflows, CNC machining, tooling, measurements, and parameter configuration. The key objectives focused on demonstrating advanced processing principles like EDM, ECM, and CNC operations, determining appropriate machining parameters across various materials, and observing how parameter adjustments impact machined surface quality.

The technical schedule was delivered across two comprehensive sessions:

- Session 1 - Focused on fundamental theory, covering CNC machining concepts, tools, and industrial applications. Students attended Q&A segments and witnessed live demonstrations of controller interface navigation, safety protocols, tool movements, and axis programming basics.
- Session 2 - Shifted entirely to immersive practical activities, prioritizing safety practices, equipment setup, and process parameter measurements. Participants independently executed complete machining cycles from initial setup to completion, gaining critical exposure to real-time operations and performance evaluations.

DEPARTMENT ACTIVITIES

WORKSHOP "ANSYS WORKBENCH: GEOMETRY TO RESULTS IN 1D, 2D & 3D STRUCTURAL, THERMAL, AND MODAL ANALYSIS"



The Department of Mechanical Engineering at Mangalore Institute of Technology & Engineering (MITE), Moodabidri, hosted an intensive three-day hands-on workshop titled "ANSYS Workbench: Geometry to Results in 1D, 2D & 3D Structural, Thermal, and Modal Analysis" from April 18th to 21st, 2026. Organized under the aegis of MITE's Internal Quality Assurance Cell (IQAC), the career-focused initiative aimed to seamlessly bridge classroom theoretical concepts with advanced computer-aided engineering simulation workflows. The technical program featured Mr. Ravi Reddy, a distinguished Lead Engineer in Aero Engines, as the primary resource person. The interactive training sessions provided students across multiple engineering streams with a vital competitive edge, immersing them deeply in industry-standard product validation and predictive simulation paradigms.

Throughout the comprehensive training tracks inside the CAD laboratory, participants navigated a structured curriculum covering multi-dimensional mechanical modeling and analysis. Students moved progressively from setting up 1D beam simulations and 2D axisymmetric thermal profiles to mastering intricate 3D solid structural and modal deformation tasks. Under the expert guidance of Mr. Reddy, the aspiring engineers practiced accurate geometry importing, material mapping, optimized structural meshing, boundary constraint definition, and post-processing interpretation. By evaluating safety factors, thermal distributions, and natural frequency structural behaviors, the young professionals successfully enhanced their analytical problem-solving competencies. The highly successful event concluded with outstanding participant feedback, highlighting a substantial surge in computational design confidence while cementing MITE's ongoing commitment to cultivating career-ready engineering excellence.

DEPARTMENT ACTIVITIES

WORKSHOP

"MASTERING ROBOTICS: TEACH PENDANT TO SMART COMPONENT PROGRAMMING"



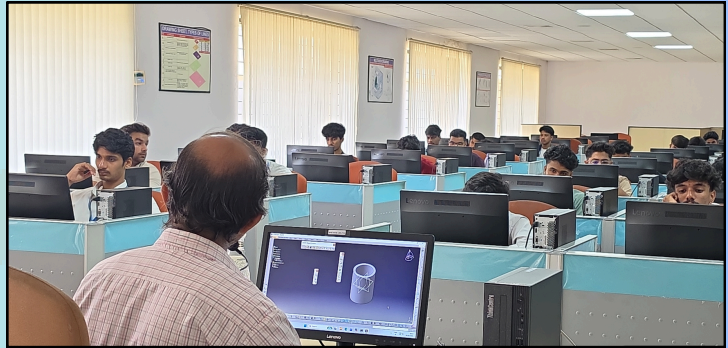
The Department of Mechanical Engineering at Mangalore Institute of Technology & Engineering (MITE), Moodabidri, successfully organized an enriching one-day hands-on workshop titled "Mastering Robotics: Teach Pendant to Smart Component Programming" on May 4th, 2026. Specifically curated for sixth-semester Mechanical Engineering students, the primary objective of this intensive training program was to bridge the crucial gap between abstract theoretical principles and practical engineering applications in modern automation. The workshop commenced with an inspiring inaugural session emphasizing the transformative role of robotics in maximizing industrial precision, productivity, and safety across manufacturing sectors. Led by the expert resource person, Ms. Nishmitha, an Assistant Professor from MITE's Department of Mechatronics, the session provided students with comprehensive introductory insights into robotic architectures, motion control frameworks, and their diverse industrial applications, including pick-and-place operations and material handling.

Transitioning from the classroom to the laboratory, the workshop successfully immersed participants in experiential learning through dual morning and afternoon training tracks. Students initially navigated robot programming fundamentals, coordinate referencing systems, and tool center points using the teach pendant. Later, inside the specialized robotics laboratory, they interacted directly with real industrial robots to execute precise tasks such as robot jogging, joint movement control, and pick-and-place routines under expert faculty guidance. This direct interaction drastically improved the participants' technical competency and confidence while highlighting career avenues in smart manufacturing. The successful event concluded with outstanding student feedback, cementing MITE's proactive stance on equipping future engineers with essential, industry-aligned automation skillsets.

DEPARTMENT ACTIVITIES

WORKSHOP

"CATIA V5 FOUNDATION & PRODUCT DESIGN"



The Department of Mechanical Engineering at Mangalore Institute of Technology & Engineering (MITE), Moodabidri, recently hosted an intensive three-day hands-on technical workshop titled "CATIA V5 Foundation & Product Design" from May 7th to May 9th, 2026. Organized in association with ISTE and MITE-IQAC, the comprehensive training program was conducted in collaboration with MSM Consultancy Services, Bengaluru, specifically targeting second-year Mechanical Engineering students. Led by Mr. Prashantha S, an expert Design Engineer from MSM Consultancy Services, the workshop aimed to provide crucial practical exposure to industry-oriented computer-aided design (CAD) modeling and product development methodologies. Through a balanced combination of brief theoretical insights and intensive laboratory sessions, the initiative successfully sought to introduce the core interface of CATIA V5, elevate students' 2D and 3D design competencies, and bridge the traditional gap between classroom learning and modern industrial applications.

Throughout the event, participants were deeply immersed in various specialized workbenches, including Sketcher, Part Design, Assembly Design, Drafting, and Surface Design. Guided step-by-step through real-world modeling exercises, students moved from creating basic geometric profiles to developing intricate mechanical assemblies and generating precise manufacturing drawings according to standard engineering drafting protocols. The advanced modules also offered valuable, highly relevant exposure to surface modeling techniques vital for the aerospace and automotive sectors. Ultimately, this immersive training significantly boosted the participants' confidence, giving them a robust foundation in modern product development workflows while substantially enhancing their overall industry readiness. The successful completion of this workshop highlights MITE's ongoing commitment to providing enriching, career-focused technical experiences for its aspiring engineers.

DEPARTMENT ACTIVITIES

WORKSHOP

MODEL-BASED SYSTEMS ENGINEERING (MBSE) USING MATLAB



The Department of Mechanical Engineering and Mechatronics at Mangalore Institute of Technology & Engineering (MITE) successfully organized a two-day workshop on "Model-Based Systems Engineering (MBSE) using MATLAB" on October 10 and 11, with the participation of 75 students and three faculty members. The workshop featured expert sessions by Dr. Deb Singdeo, Senior Engineer at MathWorks, and Dr. Riyaz A. Rahiman, Senior Application Engineer at CoreEL Technologies Pvt. Ltd., who introduced participants to the fundamentals of Systems Engineering, Model-Based Systems Engineering (MBSE), MATLAB-Simulink tools, system architecture, lifecycle modeling, functional simulation, requirements validation, testing, verification, deployment, and automatic code generation for embedded systems. Through hands-on training, participants gained practical experience in developing system lifecycle models, creating functional flow block diagrams, simulating engineering systems, validating system requirements, and understanding the complete V-model development lifecycle, thereby bridging the gap between theoretical concepts and industrial applications.

The workshop was coordinated by Dr. Shivaramu H. T., Senior Assistant Professor, Department of Mechanical Engineering, and Dr. Kirankumar M. V., Senior Assistant Professor, Department of Mechatronics. Participants appreciated the industry-oriented sessions and practical exposure, highlighting the programme's role in enhancing their technical competence, digital engineering skills, and industry readiness.

CARL ZEISS INDIA PVT. LTD. BENGALURU



The Department of Mechanical Engineering at Mangalore Institute of Technology & Engineering (MITE), Moodabidri, organized an insightful industrial visit for 24 mechanical engineering students to Carl Zeiss India Pvt. Ltd. in Bengaluru on April 3rd, 2026. Coordinated by Mr. Swaroop, Assistant Professor, this experiential learning initiative was designed to give students a comprehensive overview of advanced dimensional metrology and its critical role in modern manufacturing environments. The primary objective of the excursion was to bridge the gap between academic theory and real-world precision engineering, allowing students to observe how abstract textbook concepts such as "Limits, Fits, and Tolerances" are directly implemented on the factory floor. By exploring high-accuracy measurement solutions, the future engineers gained an understanding of how strict quality standards ensure the absolute structural integrity of complex mechanical components like engine blocks, turbine blades, and gears.

During the extensive facility tour led by Mr. Abhijeeth Ranjan, Regional Head of Carl Zeiss India, the participants were introduced to state-of-the-art metrology hardware and software frameworks. A major highlight of the visit was a live demonstration of Bridge-type Coordinate Measuring Machines (CMMs), specifically the high-performance ZEISS PRISMO and MICURA series. Students observed continuous tactile "VAST" scanning probes map thousands of coordinate data points across complex geometries, which were seamlessly processed using specialized ZEISS CALYPSO quality control software. This direct exposure to automated, ultra-precise, micron-level measuring equipment gave students an invaluable appreciation for real-time industrial data analysis. Ultimately, the visit successfully expanded the students' career perspectives in smart manufacturing, reinforcing MITE's ongoing dedication to delivering practical, career-ready technological exposure.

VIRYA AUTONOMOUS TECHNOLOGIES PVT. LTD. BENGALURU



The Department of Mechanical Engineering at Mangalore Institute of Technology & Engineering (MITE), Moodabidri, organized an educational industrial visit for 24 mechanical engineering students to Virya Autonomous Technologies Pvt. Ltd. in Bengaluru on April 4th, 2026. Coordinated by Mr. Swaroop, Assistant Professor, the excursion provided an invaluable opportunity for future engineers to witness the real-world convergence of traditional mechanical design and advanced robotics. As a pioneering company under the Maini Group, Virya Autonomous Technologies specializes in cutting-edge autonomous mobility and electric vehicle (EV) technology. Led by Mr. Prasanta Kumar M, Academic Executive Head, the comprehensive facility tour successfully bridged the gap between theoretical classroom concepts and the rapidly evolving field of smart autonomous systems, offering students a firsthand look at the practical application of kinematics, structural packaging, and automated material handling workflows.

During the visit, the participants explored the specialized manufacturing and assembly units where Virya develops its flagship AMR 10 and AMR 50 series. Students observed the intricate mechanical engineering required to build rugged Autonomous Mobile Robots (AMRs) capable of transporting heavy loads up to 5,000 kg across varied terrains. The engineers also demonstrated EV powertrain integration, structural packaging for electronic sensors, and the rigorous validation testing required for autonomous airport buggies and warehouse bots. This immersive experience highlighted the essential interdisciplinary skills—combining CAD design, structural analysis, and robotics—crucial for modern mechanical engineers in the Industry 4.0 era. The highly successful visit concluded with positive student feedback, reinforcing MITE's continuous commitment to equipping graduates with industry-aligned technological competence.

MECHANICAL ENGINEERING RIDDLES

Guess who...?

Engineering Riddles

Read each riddle carefully and use your mechanical engineering knowledge and logical thinking to find the correct answer..

1

The Invisible Worker

I never sleep.
I reduce wear without
making a sound.
Without me, machines cry
and fail.
Who am I?

2

The Silent Hero

I carry huge loads,
yet I never move from my
place.
Without me, every
machine would collapse.

3

The Energy Converter

I drink fuel,
breathe air,
and exhale power.
Who am I?

4

The Shape Changer

Heat me and I become
soft.
Cool me and I become
strong.
Engineers love changing
my structure.

5

Motion Mystery

I spin all day,
yet I travel nowhere.

6

The Force Carrier

I connect two rotating
worlds.
Sometimes flexible,
sometimes rigid.

7

The Hidden Strength

The smaller I become,
the stronger I often get.
Materials scientists
admire me.

8

Engineering Alphabet

I have teeth,
but I never eat.

9

Heat Puzzle

I rise when friction
increases.
I fall when lubrication
improves.

10

Manufacturing Mystery

I remove material,
yet I never use my hands.

11

The Silent Partner

I never produce power,
Yet without me, power
cannot reach its destination.
I rotate with the shaft but
consume no fuel.
What am I?

12

The Shape Keeper

I resist being stretched,
I resist being squeezed,
I even resist being twisted.
Engineers calculate me
before every design.
What am I?



MRITTIKA AGRO TECH LLP

MRITTIKA AGRO TECH LLP is an agritech startup based in Karnataka, India, dedicated to developing innovative, affordable, and sustainable agricultural machinery for small and marginal farmers. Incubated by students from the Department of Mechanical Engineering. The company focuses on designing and commercializing technology-driven solutions that improve farm productivity, reduce manual labour, and enhance post-harvest processing efficiency. With a strong emphasis on research, product innovation, and grassroots problem-solving, MRITTIKA AGRO TECH LLP aims to empower rural communities through practical engineering solutions while contributing to the advancement of sustainable agriculture and rural entrepreneurship.



MANOJ GOWDA



DEEKSHITH K
GOWDA

ADVANCEMENTS IN MECHANICAL DESIGN AND SIMULATIONS

The Department of Mechanical Engineering at Mangalore Institute of Technology & Engineering (MITE) organized an alumni technical talk on "Advancements in Mechanical Design and Simulations" for its students. The session was delivered by Mr. Uday T, a 2020 Mechanical Engineering alumnus and Engineer at Quest Global, Bengaluru, who shared his extensive industrial experience in mechanical design, 3D modeling, drafting, and product development. Drawing from his professional journey at organizations including Quest Global, Bühler, Toyota Industries Engine India, and Enginerio Technology Solutions, he highlighted the latest trends in simulation-driven product design and the growing importance of digital engineering tools in modern manufacturing. The talk covered the applications of advanced CAD software, the role of simulation in improving product performance and reducing prototyping costs, design optimization for manufacturing and assembly, and the integration of Product Data Management (PDM) and Product Lifecycle Management (PLM) systems in collaborative engineering environments. Mr. Uday also discussed career opportunities for aspiring design engineers and emphasized the importance of technical skills, innovation, teamwork, and continuous learning. The interactive session concluded with a question-and-answer session, where students gained valuable insights into emerging technologies and industry expectations. The programme inspired participants to adopt modern design methodologies and strengthen their simulation-based problem-solving skills, thereby enhancing their industry readiness.



Mr. Uday T, Engineer, Quest Global, Bangalore
(Graduated Year: 2020 (Department of Mechanical Engineering))

HR INSIGHTS FOR ENGINEERS

The Department of Mechanical Engineering at Mangalore Institute of Technology & Engineering (MITE) organized an alumni technical talk on "HR Insights for Engineers" for its students. The session was delivered by Mr. Bharath Kumar Rai, a 2020 Mechanical Engineering alumnus and Human Resources Professional at RSM US LLP, Bengaluru. Drawing from his experience in talent acquisition, employee engagement, and organizational development, he shared valuable insights into how engineering graduates can successfully align their technical expertise with organizational expectations. During the session, he emphasized the growing importance of communication skills, adaptability, professional ethics, and continuous learning in building a successful engineering career. He also discussed the role of Human Resources in engineering organizations, workplace culture, career planning, personal branding, recruitment expectations, interview preparation, and the need to balance technical competence with interpersonal skills. The interactive session encouraged students to actively engage in discussions on career challenges and emerging opportunities in engineering and management domains. Mr. Bharath's practical guidance and industry perspectives helped participants gain a better understanding of workplace expectations and career readiness, inspiring them to develop both technical and professional competencies required for long-term success.



Mr. Bharath Kumar Rai, HR Professional, RSM US, LLP, Bangalore
(Graduated Year: 2020 Department of Mechanical Engineering)

LOGISCALE: BUILDING RESILIENT SUPPLY CHAIN ARCHITECTURES FOR STARTUPS



The Department of Mechanical Engineering at Mangalore Institute of Technology & Engineering (MITE) organized Alumni Technothon, MITE – Series II (2025–26) on 7th March 2026, providing students with an opportunity to interact with accomplished alumni and gain insights into emerging industrial practices. The session featured Mr. Prakyath Varma, a 2015 Mechanical Engineering alumnus and Commodity Manager at ABB India Ltd., Bengaluru, who delivered an engaging technical talk on "LogiScale: Building Resilient Supply Chain Architectures for Startups." During the session, he highlighted the growing importance of designing resilient, agile, and scalable supply chain systems to address the dynamic challenges faced by startups and modern manufacturing industries. Drawing from his professional experience, he discussed key aspects of strategic sourcing, supplier management, risk mitigation, digital transformation, and sustainable supply chain practices that are essential for ensuring business continuity and operational efficiency. The session also emphasized the critical role of supply chain resilience in enhancing competitiveness and supporting innovation-driven enterprises. Students actively participated in the interactive discussion, raising questions on industry expectations, career opportunities, and the practical implementation of supply chain strategies. The Department of Mechanical Engineering expressed its sincere appreciation to Mr. Prakyath Varma for sharing his expertise and inspiring students to broaden their understanding of supply chain management and its significance in today's global business environment.



Mr. Prakyath Varma, Commodity Manager at ABB India Ltd., Bengaluru
(Graduation Year: 2015 Department of Mechanical Engineering)

HIGH ENTROPY ALLOYS: TRANSFORMING THE FUTURE OF ADVANCED MATERIALS

Dr. Vignesh Nayak Ullal
Assistant Professor

High Entropy Alloys (HEAs) are emerging as a revolutionary class of advanced materials, profoundly altering the landscape of aerospace, energy, and biomedical industries. Introduced in 2004, HEAs defy traditional metallurgy by blending five or more principal elements in near-equiatomic proportions rather than relying on a single base metal. This multi-element configuration yields a high configurational entropy that stabilizes simple solid-solution phases. Consequently, these innovative materials possess an extraordinary combination of high strength, superb toughness, exceptional wear and corrosion resistance, and remarkable thermal stability, positioning them as ideal candidates for modern engineering components operating under extreme environmental conditions.

Recent breakthroughs in material design have accelerated the trajectory of HEAs from laboratory research to industrial adoption. By integrating artificial intelligence, machine learning, and computational thermodynamics, researchers can now rapidly predict phase stability and performance traits, dramatically shortening developmental cycles.



Simultaneously, advanced manufacturing techniques like 3D printing enable the creation of highly complex HEA geometries possessing refined microstructures. Specifically, refractory HEAs, which maintain high structural integrity above 1200°C, are being explored to replace nickel-based superalloys in gas turbines and hypersonic vehicles. Beyond structural applications, multi-principal element configurations demonstrate immense potential as smart catalysts for the hydrogen economy and green-energy conversion. While obstacles such as steep production costs, large-scale processing hurdles, and manufacturing standardization persist, the convergence of material informatics and additive manufacturing ensures that HEAs will play a vital role in pioneering next-generation industrial technologies.



Dr. Vignesh Nayak Ullal, Assistant Professor

ಕಾರ್ಬನ್ ಕ್ರೆಡಿಟ್: ಕರಾವಳಿ ಮತ್ತು ಮಲೆನಾಡು ಕರ್ನಾಟಕದ ಹಸಿರು ಆರ್ಥಿಕ ಅವಕಾಶ

ಡಾ. ಅವಿನಾಶ್ ಕೆ. ಹೆಗಡೆ,
ಯಾಂತ್ರಿಕ ಎಂಜಿನಿಯರಿಂಗ್ ವಿಭಾಗ

ಹವಾಮಾನ ಬದಲಾವಣೆ ನಿಯಂತ್ರಣದಲ್ಲಿ ಕಾರ್ಬನ್ ಕ್ರೆಡಿಟ್ ವ್ಯವಸ್ಥೆ ಇಂದು ಜಾಗತಿಕ ಮಟ್ಟದಲ್ಲಿ ಪ್ರಮುಖ ಸಾಧನವಾಗಿದೆ. ಒಂದು ಟನ್ CO₂ ಹೀರಿಕೊಳ್ಳುವ ಅಥವಾ ತಡೆಯುವ ಸಾಮರ್ಥ್ಯಕ್ಕೆ ಒಂದು ಕ್ರೆಡಿಟ್ ನೀಡಲಾಗುತ್ತದೆ. ಈ ಕ್ರೆಡಿಟ್‌ಗಳನ್ನು ಅಂತರರಾಷ್ಟ್ರೀಯ ಮಾರುಕಟ್ಟೆಯಲ್ಲಿ ₹200 ರಿಂದ ₹2,000 ವರೆಗೆ ಮಾರಾಟ ಮಾಡಬಹುದು. ಕರ್ನಾಟಕದ ಕರಾವಳಿ ಮತ್ತು ಮಲೆನಾಡು ಪ್ರದೇಶಗಳು ಈ ವ್ಯವಸ್ಥೆಯ ಮೂಲಕ ಪರಿಸರ ರಕ್ಷಣೆ ಮತ್ತು ಆರ್ಥಿಕ ಲಾಭ ಎರಡನ್ನೂ ಏಕಕಾಲದಲ್ಲಿ ಸಾಧಿಸಬಲ್ಲವು.

ಕರಾವಳಿ ಕರ್ನಾಟಕ - ನೀಲಿ ಇಂಗಾಲದ ಭಂಡಾರ:

ದಕ್ಷಿಣ ಕನ್ನಡ, ಉಡುಪಿ ಮತ್ತು ಉತ್ತರ ಕನ್ನಡ ಜಿಲ್ಲೆಗಳ ತೀರದಲ್ಲಿ ಹರಡಿರುವ ಮ್ಯಾಂಗ್ರೋವ್ ಅರಣ್ಯಗಳು ನೀಲಿ ಇಂಗಾಲ (Blue Carbon) ದ ಅಮೂಲ್ಯ ಮೂಲಗಳಾಗಿವೆ. ಇವು ಸಾಮಾನ್ಯ ಕಾಡುಗಳಿಗಿಂತ 2-3 ಪಟ್ಟು ಹೆಚ್ಚು ಇಂಗಾಲ ಸಂಗ್ರಹಿಸಬಲ್ಲವು. ಕರ್ನಾಟಕ ಕರಾವಳಿಯ ಸುಮಾರು 1,000 ಹೆಕ್ಟೇರ್ ಮ್ಯಾಂಗ್ರೋವ್ ಅರಣ್ಯ, ಸರಿಯಾದ ನಿರ್ವಹಣೆ ಮೂಲಕ ವಾರ್ಷಿಕ ₹9.5-11 ಕೋಟಿ ಕಾರ್ಬನ್ ಕ್ರೆಡಿಟ್ ಆದಾಯ ತರಬಲ್ಲದು. ಅಘಾನಾಶಿನಿ ನದಿ ಮುಖದ ಮ್ಯಾಂಗ್ರೋವ್ ಅರಣ್ಯ, ಅಂಕೋಲ ತಾಲ್ಲೂಕಿನ ಮ್ಯಾಂಗ್ರೋವ್ ಪುನರ್ ಸ್ಥಾಪನೆ ಯೋಜನೆ ಈಗಾಗಲೇ ವಾರ್ಷಿಕ 11,000 ಟನ್ CO₂ ಹೀರಿಕೊಳ್ಳುತ್ತಿದೆ. ಕರಾವಳಿ ಸಮುದ್ರ ಪಾಚಿ ಕೃಷಿ ಮತ್ತು ಸೌರ ಚಾಲಿತ IoT ಮಾಪನ ಸಂವೇದಕ ಜಾಲ ಅಳವಡಿಕೆ ಮೂಲಕ ಈ ಸಾಮರ್ಥ್ಯ ಮತ್ತಷ್ಟು ಹೆಚ್ಚಿಸಬಹುದು.

ಮಲೆನಾಡು - ಅರಣ್ಯ ಮತ್ತು ತೋಟಗಾರಿಕೆಯ ಶಕ್ತಿ:

ಶಿವಮೊಗ್ಗ, ಚಿಕ್ಕಮಗಳೂರು, ಕೊಡಗು ಮತ್ತು ಹಾಸನ ಜಿಲ್ಲೆಗಳ ಮಲೆನಾಡು, ಪಶ್ಚಿಮ ಘಟ್ಟಗಳ ದಟ್ಟ ಅರಣ್ಯ ಆವರಿಸಿದ ಪ್ರಾಂತ್ಯ. ಒಂದು ಹೆಕ್ಟೇರ್ ದಟ್ಟ ಅರಣ್ಯ ವಾರ್ಷಿಕ 10-11 ಟನ್ CO₂ ಹೀರಿಕೊಳ್ಳುತ್ತದೆ. REDD+ ಕಾರ್ಯಕ್ರಮದಡಿ ಅರಣ್ಯ ಭೂಮಿ ಮಾಲೀಕರು ಕಾರ್ಬನ್ ಕ್ರೆಡಿಟ್ ಗಳಿಸಬಹುದು.



ಡಾ. ಅವಿನಾಶ್ ಕೆ. ಹೆಗಡೆ, ಯಾಂತ್ರಿಕ ಎಂಜಿನಿಯರಿಂಗ್ ವಿಭಾಗ



ಕೊಡಗಿನ ಕಾಫಿ ತೋಟಗಳಲ್ಲಿ VCS ಪ್ರಮಾಣಪತ್ರ ಪಡೆದ 1,100 ಹೆಕ್ಟೇರ್ ಯೋಜನೆ 2 ವರ್ಷಗಳಲ್ಲಿ ₹1.5 ಕೋಟಿ ಆದಾಯ ತಂದಿದೆ. ಅಡಿಕೆ-ಅರಣ್ಯ ಮಿಶ್ರ ಬೆಳೆ (Agroforestry) ಪದ್ಧತಿ ಮತ್ತು ಸಣ್ಣ ಜಲವಿದ್ಯುತ್ ಯೋಜನೆಗಳೂ ಕ್ರೆಡಿಟ್ ಗಳಿಕೆಗೆ ಸೂಕ್ತ ಮಾರ್ಗಗಳಾಗಿವೆ.

ಎಂಜಿನಿಯರಿಂಗ್ ತಂತ್ರಜ್ಞಾನ ಮತ್ತು ಮುಂದಿನ ಹೆಜ್ಜೆ

ನಿಖರ ಕಾರ್ಬನ್ ಮಾಪನಕ್ಕೆ LiDAR, ಉಪಗ್ರಹ ಚಿತ್ರಣ, ಡ್ರೋನ್ ಸಮೀಕ್ಷೆ ಮತ್ತು Blockchain ಆಧಾರಿತ MRV (Measurement, Reporting, Verification) ವ್ಯವಸ್ಥೆ ಅಳವಡಿಸಬೇಕು. ವಿಶ್ವವಿದ್ಯಾಲಯಗಳ ಸಂಶೋಧನಾ ಸಹಭಾಗಿತ್ವ, ಸ್ಥಳೀಯ ರೈತರಿಗೆ ತರಬೇತಿ ಮತ್ತು ಕರ್ನಾಟಕ ಕಾರ್ಬನ್ ಕ್ರೆಡಿಟ್ ಅಭಿವೃದ್ಧಿ ಏಜೆನ್ಸಿ (KCCDA) ಸ್ಥಾಪನೆ - ಇವು ತಕ್ಷಣದ ಆದ್ಯತೆಗಳಾಗಿವೆ. ತಜ್ಞರ ಅಂದಾಜಿನ ಪ್ರಕಾರ ಈ ಎರಡು ಪ್ರದೇಶಗಳು ವಾರ್ಷಿಕ ₹100-150 ಕೋಟಿ ಮೌಲ್ಯದ ಕಾರ್ಬನ್ ಕ್ರೆಡಿಟ್ ಉತ್ಪಾದಿಸಬಲ್ಲವು.

ತೀರ್ಮಾನ

ಕರ್ನಾಟಕದ ಕರಾವಳಿ ಮತ್ತು ಮಲೆನಾಡು - ಇವು ಕೇವಲ ಪ್ರಕೃತಿ ತಾಣಗಳಲ್ಲ, ಭವಿಷ್ಯದ ಹಸಿರು ಆರ್ಥಿಕತೆಯ ಅಡಿಪಾಯ. ಪ್ರತಿ ಮರ, ಪ್ರತಿ ಮ್ಯಾಂಗ್ರೋವ್ ಹೊದಿಕೆ, ಪ್ರತಿ ಕಾಫಿ ತೋಟ - ಇವೆಲ್ಲವೂ ಇಂಗಾಲ ಹೀರುವ ಯಂತ್ರಗಳು. ಎಂಜಿನಿಯರಿಂಗ್ ತಂತ್ರಜ್ಞಾನ, ಸರ್ಕಾರದ ದೂರದೃಷ್ಟಿ ಮತ್ತು ಸ್ಥಳೀಯ ಸಮುದಾಯಗಳ ಒಗ್ಗಟ್ಟಿನಿಂದ, ಕಾರ್ಬನ್ ಕ್ರೆಡಿಟ್ ವಸ್ತು ಈ ಭೂಮಿಯ ಜನರ ಜೀವನಮಟ್ಟ ಉನ್ನತಿಗೊಳಿಸುವ ಶಕ್ತಿಶಾಲಿ ಸಾಧನವಾಗಬಲ್ಲದು. ಮುಖ್ಯ ಪದಗಳು: ಕಾರ್ಬನ್ ಕ್ರೆಡಿಟ್, ಮ್ಯಾಂಗ್ರೋವ್, Blue Carbon, REDD+, Agroforestry, MRV, ಮಲೆನಾಡು, ಕರಾವಳಿ ಕರ್ನಾಟಕ

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1

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Congratulations



Winners – Grassroot Innovation Program 2025

The Department of Mechanical Engineering, MITE, proudly announces that its student team has emerged as a winner in the Grassroot Innovation Program 2025, organized by the Department of Electronics, Information Technology & Biotechnology, Government of Karnataka.

This state-level initiative promotes community-driven innovations with significant social impact and provides funding support of up to ₹4 lakhs for selected projects. The winning project, “Wild Arecanut Dehusker,” was developed by students Manoj Kumar B V and Deekshith K Gowda under the guidance of Dr. Shivaramu H T and Mr. Yuvaraj K B.

Congratulations



SECOND PLACE IN NATIONAL LEVEL ANVESHANA - 2026

A student team from Mangalore Institute of Technology & Engineering (MITE) secured Second Prize and a cash award of ₹25,000 at ANVESHANA 2026, a national-level project championship organized by the Agastya International Foundation in association with Synopsys, Bengaluru. The award-winning project, "Wild Areca-nut Dehusker," was developed by Mr. Manoj Kumar B. V., Mr. Deekshith K. Gowda, and Mr. Swasthik from the Department of Mechanical Engineering, in collaboration with Mr. Deepak and Mr. Manjunath M. from Government High School, Neerkere, Moodabidri. The project was mentored by Dr. Shivaramu H. T. and Mr. Yuvaraj K. B., earning national recognition for its innovative and socially impactful solution.

ACHIEVEMENTS

Congratulations



MITE TEAM EXCELS AT IIT BOMBAY'S PRESTIGIOUS E-YANTRA INNOVATION CHALLENGE

A student team from the Department of Mechanical Engineering, Mangalore Institute of Technology & Engineering (MITE), Moodabidri, received national recognition at the e-Yantra Innovation Challenge (eYIC) 2025-26, organized by IIT Bombay. The team won the "Entrepreneurial Potential & Best Business Pitch Award" for their innovative project, "Multi-Crops Dehusker," along with a cash prize of ₹1 lakh and an 8-week pre-incubation opportunity at IIT Bombay. Out of 323 teams from across the country, only 16 finalists were selected for the grand finale. The project, developed by Mr. Manoj Kumar B. V., Mr. Deekshith K. Gowda, Mr. Pradhyumna Murthy, and Mr. Swasthik, was mentored by Dr. Shivaramu H. T. and Mr. Yuvaraj K. B. MITE management congratulated the team, describing the achievement as a testament to the institution's commitment to innovation, entrepreneurship, and startup-driven engineering education.

FACULTY ACHIEVEMENT



Congratulation



Dr. Shivaramu H T

Dr. Shivaramu H T successfully completed the AICTE-QIP-PG 2025 Certificate Programme on "From AI to Generative AI: Unlocking the Power of Smart Technologies" offered by the Indian Institute of Information Technology Allahabad, from July 2025 to December 2025.

The programme covered emerging and industry-relevant domains including Generative AI, Computational Thinking and Programming with Python, Artificial Intelligence and Machine Learning, and Data Science for Engineers.

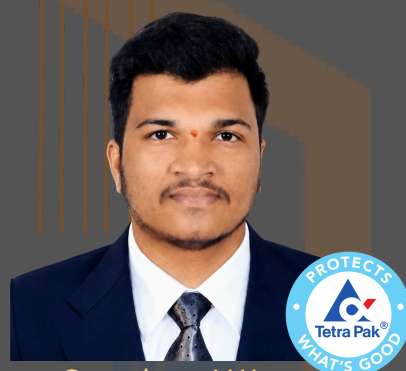
He completed the programme with 100% attendance and secured an excellent CGPA of 9.2, demonstrating a strong commitment to continuous professional development and lifelong learning.

Congratulations on your Placements



Deekshith K Gowda

Placed at
Toshiba Mitsubishi-Electric
Industrial Systems
Corporation



Gurudatta V Karve

Placed at
Tetrapak



Prakyath K H

Placed at
Green Concept Engineering
Consultants



Dhanush

Placed at
NAD Engineering Solutions



Mohammed Mazin

Muneer Ahamed

Placed at
Petrosolutions Trading and
Services

Alumni Testimonials

I am proud to be an alumnus of MITE, Moodbidri. The institute provided me with a strong technical foundation along with excellent exposure to practical learning and industry-oriented training.

The placement training programs, aptitude sessions, group discussions, and communication skill development conducted by the college helped build my confidence and prepared me for the professional world. These initiatives not only enhanced my technical knowledge but also improved my analytical thinking & interpersonal skills.

The supportive faculty, learning environment, and opportunities for overall personality development played a significant role in shaping my career. I sincerely thank MITE for the knowledge, values, and confidence it instilled in me and wish the institution continued success in nurturing future engineers.

Prajwal Achar

Managing Director, SKF Elixer (Batch of 2014)



My journey at the Department of Mechanical Engineering, Mangalore Institute of Technology & Engineering (MITE), has been a strong foundation for both my personal and professional growth.

The department not only equipped me with technical knowledge but also helped shape my confidence, discipline, and problem-solving abilities, enabling me to become the best version of myself.

One of the biggest turning points in my career was the excellent placement support from MITE, through which I secured my first job at Collins Aerospace. Beginning my career at a global OEM gave me invaluable exposure to the aerospace industry, allowed me to work with exceptional professionals, and provided opportunities to travel internationally for work, experiences that significantly accelerated my career growth.

I am deeply grateful to all the faculty members and the Mechanical Engineering Department for their constant guidance, encouragement, and support throughout my academic journey.

Sidharth K. S.

Lead Engineer
Safran Electronics & Defence
(Batch of 2022)

Today, I am proud to be working as a Lead Engineer at Safran Electronics & Defence. Looking back, I can confidently say that MITE played a pivotal role in laying the foundation for my career and inspiring me to strive for excellence.



Graduating from MITE's Mechanical Engineering department in 2017 was a defining chapter of my life. The exceptional academic environment and supportive faculty pushed me to become the college topper for consecutive 3 years, while the campus sports culture allowed me to thrive on the cricket field. MITE perfectly balances academic rigor with holistic growth, equipping me with the technical knowledge and leadership skills needed for success. I am proud to be an alumnus of this prestigious institution

Padmanabha Gadiyar

Customer Order planning Advance
Specialist (Assistant Manager)
Autoliv
(Batch of 2017)



Alumni Testimonials

I found a welcoming community of friends and mentors at MITE who supported me both in and out of the classroom.

Ashwin Balaram Balasundar Shenoy

Mercedes-Benz R&D India
(Batch of 2016)



My time at the Department of Mechanical Engineering, MITE, played an important role in shaping my career. The knowledge, guidance, and support I received from the faculty gave me the confidence to pursue opportunities beyond engineering. Securing a campus placement at Salesforce was a significant milestone, and it laid the foundation for my professional growth. Today, I am working as a Revenue Operations Manager at Juniper Square*, and I remain grateful to MITE for helping me build a strong start to my career. I sincerely thank the faculty and the department for their support and wish MITE continued success in shaping future professionals.

Mohammed Sahil

Revenue Operations Manager
Juniper Square
(Batch of 2021)



MITE gave me the confidence to dream bigger, face challenges with determination, and learn valuable lessons that continue to guide me in life. I will always be grateful to the institution for shaping me into the person I am today. Proud to be a Mechanical Engineering alumnus.

Prajwal D

Project Lead, L&T TECHNOLOGY
SERVICES LIMITED, Japan
(Batch of 2014)



My journey at Mangalore Institute of Technology & Engineering (MITE) as a Mechanical Engineering student laid a strong foundation for my professional career. Graduating in 2022, I gained valuable technical knowledge, analytical thinking, and problem-solving skills through practical learning, projects, and the constant support of dedicated faculty members. Today, as an Associate Manager – Corporate Strategy at Ace Micromatic Group, I continue to apply these skills in business planning, strategic initiatives, and cross-functional decision-making. I am sincerely grateful to the Mechanical Engineering Department for shaping my personal and professional growth and will always be proud to be a MITE alumnus.

Radvik Poonja

Ace Micromatic Group
Associate Manager – Corporate Strategy
(Batch of 2021)





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