

NIRVANA

DEPARTMENT OF MECHANICAL ENGINEERING
VIVEKANANDA COLLEGE OF ENGINEERING & TECHNOLOGY, PUTTUR. 08251-234555



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BIANNUAL NEWSLETTER

Industrial Visit to Mysore Facilities Offers Hands-On Manufacturing Insights

From April 23 to April 24, 2026, the Department of Mechanical Engineering organized a two-day industrial visit to Mysuru for second-year students, accompanied by three faculty members. The visit aimed to provide practical exposure to modern manufacturing processes, industrial practices, quality control systems, and advanced engineering technologies.

On the first day, students visited the Central Institute of Petrochemicals Engineering & Technology (CIPET) and Prem Industries. At CIPET, they observed polymer testing laboratories, mould design facilities, CAD/CAM applications, and injection moulding operations, gaining insights into plastics manufacturing and quality assurance practices. At Prem Industries, students explored tool room operations, machining processes, assembly lines, and quality inspection methods involved in the production of precision plastic components for automotive and medical applications.



valuable exposure to real-world engineering practices, helping students understand the practical applications of concepts learned in the classroom. Overall, the visit enhanced their technical knowledge, awareness of industrial standards, and understanding of modern manufacturing technologies.

On the second day, the students visited GRS Engineering Pvt. Ltd., where they witnessed closed-die forging, heat treatment processes, CNC machining operations, and advanced quality control procedures used in the manufacture of heavy-duty railway and structural components. The industrial visit provided

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World's Smallest Engine

The world's smallest functional mechanical engine is the microscopic **Nano Bee** internal combustion engine, built by machinist Ronald Valentine, which features a displacement of just 0.006 cc and a 2 mm piston. On a molecular scale, physicists have also built a quantum heat engine using a single calcium ion.

Vision

"To be a well-recognized department in providing conducive environment for learning, leading to well-qualified engineers who are innovative and successful in their diverse careers".

Mission

M1: Students: To Prepare, educate, inspire and mentor the students to excel as professionals.

M2: Faculty: To Facilitate in academic and research activities.

M3: Infrastructure: To provide state of the art infrastructure facilities in the field of mechanical engineering.

M4: Teaching Learning: To improve pedagogical methods employed in delivering the academic programs.

"Technology will not replace great teachers, but technology in the hands of great teachers can be transformational."
— George Couros

Technical Seminar Bridges Classroom Theory and Industrial Foundry Operations



The Department of Mechanical Engineering, in association with the Mechanical Engineering Students' Association (MESA), organized a technical seminar on "Green Sand Molding" on March 24, 2026, at Sir M. Visvesvaraya Hall, Krishnachetana. The event was coordinated with the support of MESA Coordinators Prof. Harish S R and Prof. Naveen S P. The program commenced with Thejaswi U of the 4th semester serving as the Master of Ceremonies and delivering the welcome address, followed by Hamsini M V introducing the guest speaker, and concluded with a vote of thanks proposed by Shreya. Over 35 students from the 4th semester actively participated in the event.

The resource person for the session was Mr. Chandramohan K A, Manager – Sales at Lamina Foundries Limited, Nitte, Karkala. During the session, he provided valuable insights into the fundamental principles of green sand moulding, the composition and properties of moulding sand, mould preparation techniques, and real-world foundry challenges. His interactive talk effectively bridged classroom theory with practical manufacturing applications, giving students clear exposure to real-time operations in the casting industry.

Eminent Experts Guide Students on Career Pathways via GATE and PSUs

On March 26, 2026, MESA organized a comprehensive guidance session titled "GATE for Higher Studies and PSU's" at Sir M. Visvesvaraya Hall, Krishnachetana. The program was anchored by student coordinators, with K. P. Vaishnavi conducting the proceedings as MC, Manaswi delivering the welcome speech, Abhishek introducing the speakers, and Shreepada Bharadwaj offering the vote of thanks. The event witnessed enthusiastic participation from over 100 students across various engineering disciplines along with several faculty members. The seminar featured two distinguished resource persons, Dr. Ananth Pai (Ph.D., IIT Madras) and Dr. Gururaj Udupa (Ph.D., NITK Surathkal). Dr. Ananth Pai educated the audience on the structural format and core benefits of the GATE examination, highlighting how strong conceptual clarity and disciplined preparation can open doors to higher education and public sector careers. Complementing this, Dr. Gururaj Udupa shared actionable study techniques, time-management strategies, and motivational advice to help students systematically prepare for competitive exams and navigate post-graduation career opportunities.



Alumnus Shared Practical Guidance on Adapting Technical Skills to Industry Realities

On May 09, 2026, the Department of Mechanical Engineering, in collaboration with MESA and the Alumni Cell, organized an alumnus interaction session on "Adapting Skills to Industry Challenges" at Sir M. Visvesvaraya Hall, Krishna Chethana Block. The session was anchored by Mr. Bhuvanram as the Master of Ceremonies, with Mr. Abhishek introducing the chief guest and Mr. Shreepada Bharadhwaj presenting the vote of thanks. The session gathered more than 60 students and faculty members.

The featured speaker was distinguished alumnus Mr. Trilok G Mylar, Proprietor of Mylar Enterprise, Bangalore. Addressing the students, Mr. Mylar emphasized the critical importance of aligning academic learning with evolving market requirements. He urged students to focus on continuous skill upgrades, practical problem-solving capabilities, and strong soft skills to navigate modern engineering challenges successfully.



"Growth is limitless when guided by innovation, integrity, and a commitment to solving real-world challenges through technology." - N.R. Narayana Murthy (Co-founder of Infosys)

Interactive Career Guidance Session Inspires Second-Year Students

The Department of Mechanical Engineering, along with MESA and the Alumni Cell, conducted an insightful interactive talk on "Career Guidance" on May 30, 2026, in Room E111, Krishna Chethana Block. Organized under the guidance of faculty coordinators Dr. Deepak K. B., Prof. Ajith K., and Prof. Satheesha Kumar K., the session saw participation from over 60 attendees, including 30+ second-year Mechanical Engineering students and faculty. The event concluded with a vote of thanks delivered by student anchor Mr. Chaithresh.

The resource person for the event was Mr. Deepak B. C., a Research Scholar from NITK Surathkal. Drawing from his academic and research experience, Mr. Deepak guided the second-year students on early career planning, building core technical competencies, and preparing effectively for competitive examinations and higher research programs. His session encouraged students to set clear long-term goals and stay proactive in their professional development.



Two-Day Certificate Course Delivered Advanced Training in CNC & Polymer Technologies

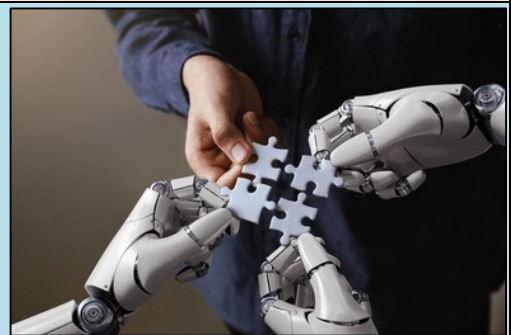
On July 21 and 22, 2026, the Department of Mechanical Engineering, in association with the Mechanical Engineering Students Association (MESA) and the Institution's Innovation Council (IIC), successfully organized a two-day online certificate course titled "CNC Machines and Comprehensive Study on Identification of Plastic Materials" for 35 fourth-semester B.E. Mechanical Engineering students. The program was designed to provide students with industry-oriented knowledge and practical insights beyond the regular curriculum, thereby enhancing their technical proficiency and employability. The course aimed to familiarize students with emerging manufacturing technologies and material identification techniques that are widely used in modern engineering industries. Through expert-led sessions, students gained valuable exposure to industrial practices, helping them understand the growing importance of automation, precision manufacturing, and material selection in contemporary engineering applications.

The training was conducted by experienced academicians and technical experts from the Central Institute of Petrochemicals Engineering & Technology (CIPET), Mysuru, who shared their expertise through interactive lectures and demonstrations. The CNC machining module covered the fundamentals of Computer Numerical Control systems, machine tool components, coordinate systems, programming concepts, machining operations, and industrial applications of CNC technology in precision manufacturing. The plastic materials module focused on the classification of polymers, characteristics of thermoplastics and thermosetting plastics, material selection criteria, and simple physical and visual testing methods used to identify different plastic materials. The sessions also highlighted the significance of plastics in automotive, aerospace, medical, and consumer product industries. All 35 participants successfully completed the assessment activities conducted as part of the program and were awarded certificates of completion. The course significantly strengthened students' understanding of advanced manufacturing processes and material engineering concepts, thereby improving their technical competence, innovation mindset, and readiness for future industrial careers.



TECHNOLOGY

Human-Robot Collaboration (HRC) is an advancing field where humans and smart machines or robots work closely together in the same workspace. It combines human problem-solving and judgment with the speed, precision, and strength of robotic systems. Humans and robots work simultaneously on the same task or workpiece, using force-monitoring sensors (cobots) to ensure complete safety during physical interaction. Robots take over heavy lifting, uncomfortable movements, and repetitive tasks. Teams finish complex objectives faster while maintaining high quality standards.



Class 2026-27 Mechanical Engineers



Mechanical Engineering Batch Hits 100% Job Placement Streak

DEPARTMENT OF MECHANICAL ENGINEERING CONGRATULATES

OUR PLACED STUDENTS OF BATCH 2025-26



JNANESH M
SAN Engineering
Locomotive



KULADEEP H G
TCS



KUSHANTH K S
TCS



HANCIL JEETHESH
Kossa Autotech



VAISHNAVI V V
TCS



VARSHA A B
TCS



HITHESH O
Enn Auto CNC



JITHESH
AKTIS



VARUN KUMAR
AKTIS



MOKSH A
AKTIS



SWASTHIK P D
TCS



SATHWIK
TCS



VINAY KUMAR A
VITAL EMERGING
TECHNOLOGIES



CHITTHARANJAN M
YAZAKI Pvt. Ltd.



PRAJWAL RAI M
VITAL EMERGING
TECHNOLOGIES



SUBRAMANI T N
GK Robotec



JITHESHA N
Mallik Multitechnologies



PRADEEP
Enn Auto CNC



KETHAN P R
Mallik Multitechnologies



KRUTHIK
GK Robotec



K PANCHAM ACHARYA
GK Robotec



SUCHITH KUMAR A U
GK Robotec

The Department of Mechanical Engineering at Vivekananda College of Engineering & Technology, Puttur, has achieved a 100% campus placement record for the 2025-26 batch, marking its fourth consecutive year of total graduate employment. Students secured positions across top engineering firms, technology companies, and core manufacturing industries—including Tool Comp Systems (TCS), Aktis, GK Robotec, Vital Emerging Technologies, Enn Auto CNC, Mallik Multitechnologies, SAN Engineering Locomotive, Yazaki Pvt. Ltd., and Kossa Autotech. Major recruiting partners involved in the campus drives included global and national leaders such as Bosch, Volvo, Mercedes-Benz, Autoliv, Infosys, ACE Designers,

Ravicab, Straecon, Wonderla, Machine House Technologies, Legion Energy, Cummins, and the Indian Navy. College management, faculty, and the Training and Placement Department commended the graduating class for maintaining the department's unbroken four-year streak of academic and professional success.

FORMULA 1

Formula 1 cars serve as high-performance engineering systems that push physical boundaries at speeds exceeding 350 km/h while transmitting 1.1 million data points per second. At the heart of these machines is a 1.6-litre turbocharged V6 hybrid power unit that generates over 1,000 horsepower and achieves a remarkable thermal efficiency exceeding 50%. To maintain stability at extreme speeds, ground-effect aerodynamics generate downforce equivalent to three times the car's total weight. Protecting the driver within this intense environment is a carbon fibre monocoque weighing just 35 to 40 kilograms, engineered to withstand massive crash impact forces up to 52G.