

Department Activity Report – February 2025

Department of Mechanical Engineering

1. Department programs

➤ Insight 2025

Date	February 10 th and 11 th 2025
Program	A variety of workshops and exhibitions were conducted by department association, AMET
Description	<p>As a part of the event, the following events were conducted</p> <ul style="list-style-type: none"> • Ultimate woodsmith (Competition to prepare a wood model with precise measurements) • Weld factor (Welding exhibition on TIG welding) • CNC expo & Pelton Turbine (Department facilities were showcased with working models) • Advanced Materials Expo (exhibition of various metal matrix composites, polymer composites, biocutting fluids, shape memory alloys, MWCNT, and biofuels were done) • Engine Assembly Ignition Point (Four-cylinder engine was assembled and parts were displayed in a working model pattern.) <p>The event witnessed enthusiastic participation from students of various schools and colleges and faculty members. Over 100 students and faculty members attended the expo, making it a grand success. The hands-on experience and knowledge-sharing sessions were highly appreciated by all attendees.</p>
Venue	Basic Mechanical workshops, Hydraulics lab, thermal Lab and Machine shop

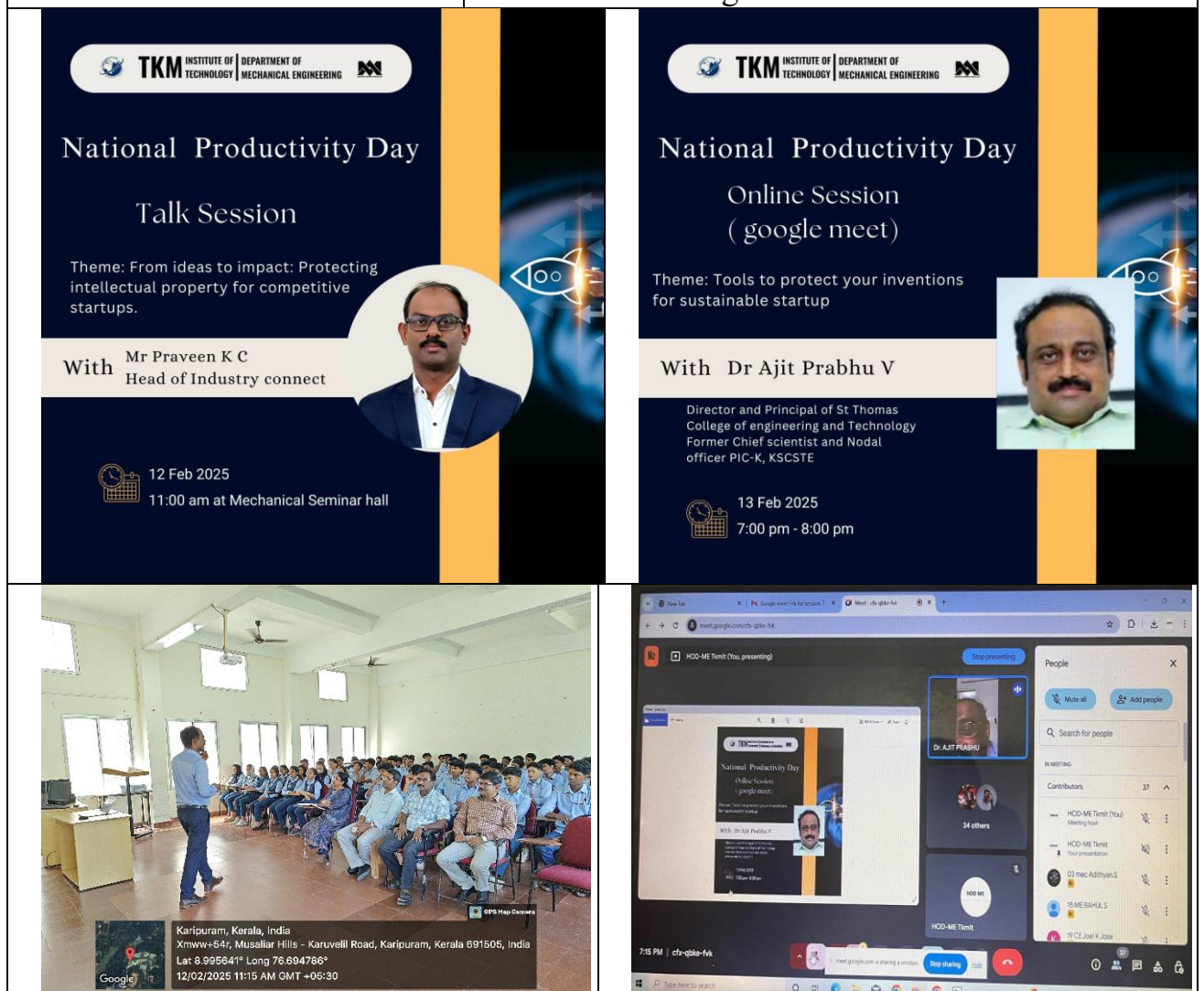




➤ National Productivity Day

Date	February 12 th and 13 th 2025
Program	<p>Session 1: From ideas to impact: Protecting intellectual property for competitive startups (Offline)</p> <p>Session 2: Tools to protect your inventions for sustainable startup (Online)</p>

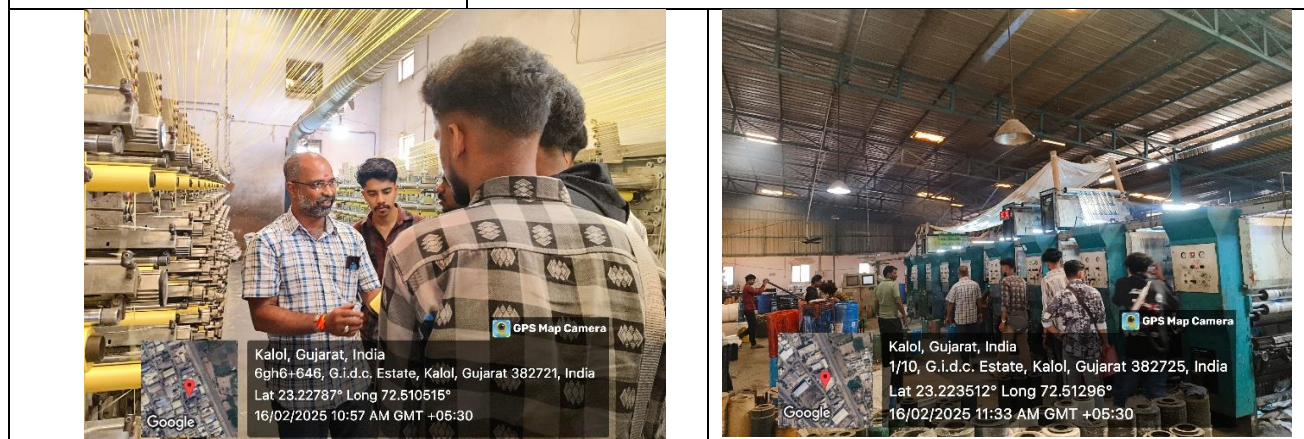
Description	<p>The session is arranged in accordance with the National Productivity Day celebrated with a theme of “From ideas to impact: Protecting intellectual property for competitive startups”. The first part of the session was to provide a brief idea about the different intellectual properties such as patent, copyright, trade mark and trade secret with practical examples. The second part of the discussion highlighted the procedure for patenting and its importance in startup ecosystem.</p>
Venue	<p>Session 1: Department Seminar Hall Session 2: Google meet</p>

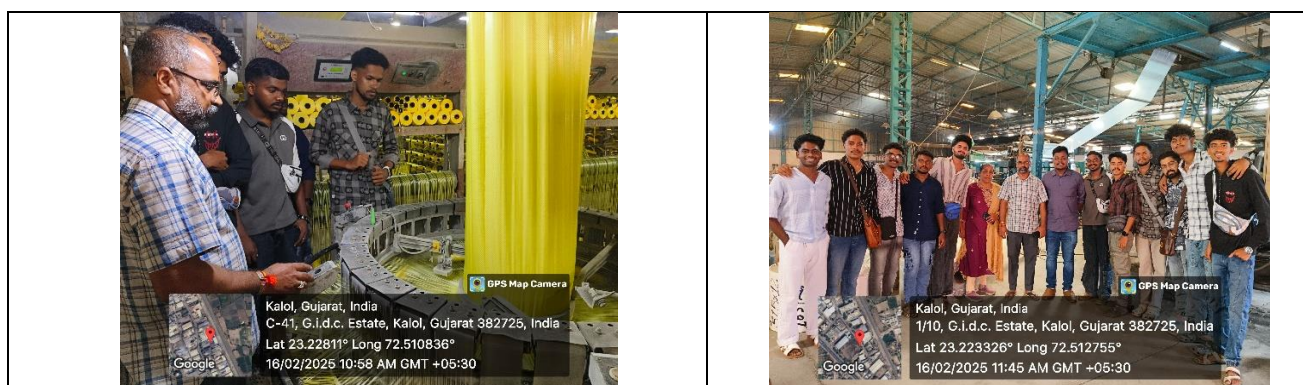


2. Industrial visits conducted

➤ Industrial visit conducted by 6th Semester students

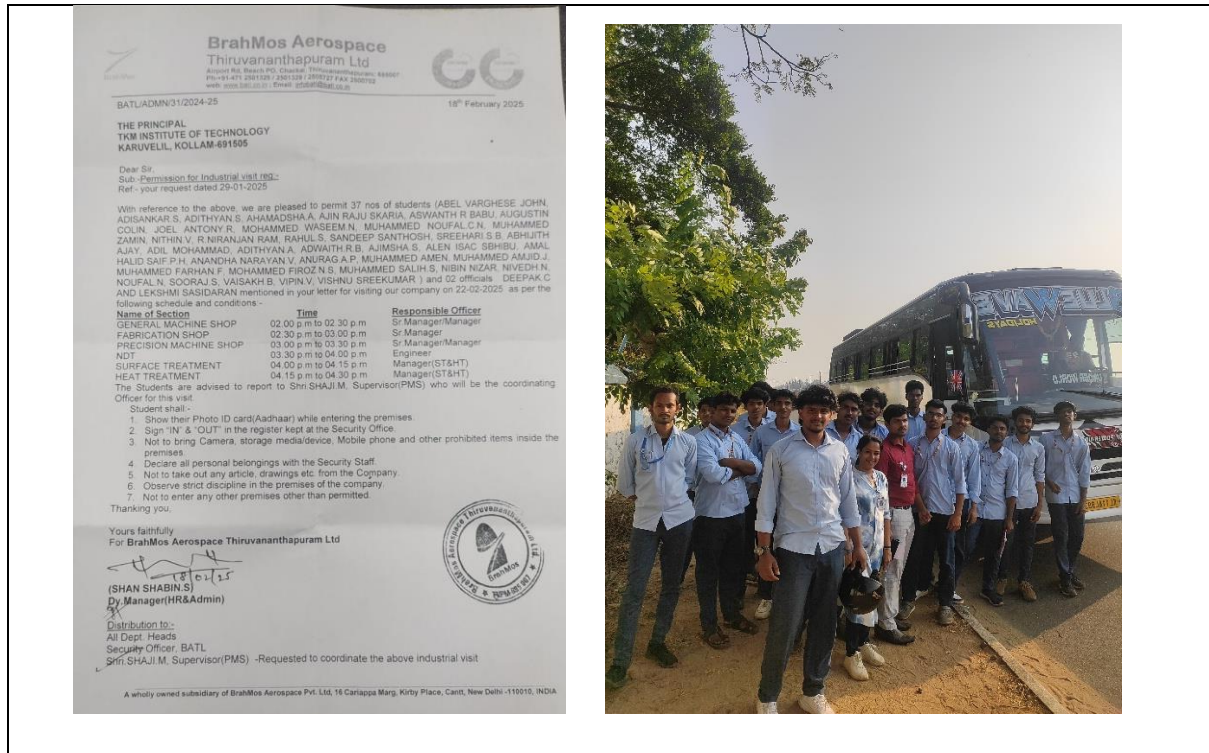
Date	February 16 th 2025
Program	One-day industrial visit at Plas Pack Synthetics Pvt Ltd, Gandhinagar, Gujarat
Description	Students of 6 th semester and a faculty, Prof. Deepu Chandran of the Mechanical department attended an industrial visit at Plas Pack Synthetics Pvt Ltd, Gandhinagar, Gujarat. The visit provided valuable insights into real-world applications of polymer processing techniques such as injection molding, extrusion, blow molding, and thermoforming used in synthetic and plastic product manufacturing. As a part of the internship program, students gained insights into quality assurance procedures, ISO standards, and safety protocols followed in a plastics manufacturing plant. They got to see cutting-edge machinery, robotics, and automation used in the plastics industry, enhancing their technical knowledge.
Venue	Plas Pack Synthetics Pvt Ltd, Gandhinagar, Gujarat





➤ **Industrial visit conducted by 2nd and 4th semester students**

Date	February 22 nd 2025
Program	One day industrial visit conducted at BrahMos Aerospace Trivandrum Ltd
Description	35 Students of 2 nd and 4 th semesters and two faculty members, Prof. Deepak C and Prof. Lakshmi Sasidharan of the Mechanical department attended an industrial visit at BrahMos Aerospace Trivandrum Ltd. Visiting facilities such as general machine shops, fabrication shops, precision machine shops, non-destructive testing (NDT) facilities, surface treatment, and heat treatment processes offers students invaluable practical exposure. They gained importance with machining operations, fabrication techniques, and precision manufacturing. Students also learn about quality control through NDT methods, understand material enhancements via surface and heat treatments, and observe industrial safety protocols. This comprehensive exposure bridges the gap between theoretical knowledge and real-world applications, preparing them for careers in manufacturing and engineering industries.
Venue	BrahMos Aerospace Trivandrum Ltd



3. Student achievement

- Nikhil N, S8 ME student and his team secured second prize in 8kg Robowar and first prize in Robosoccer & Roborace at Jain University held on February 1st 2025.



- Nikhil N, S8 ME student got second prize in 8kg Robowar held at TKM Institute of Technology, Ezhukone on February 11th 2025.

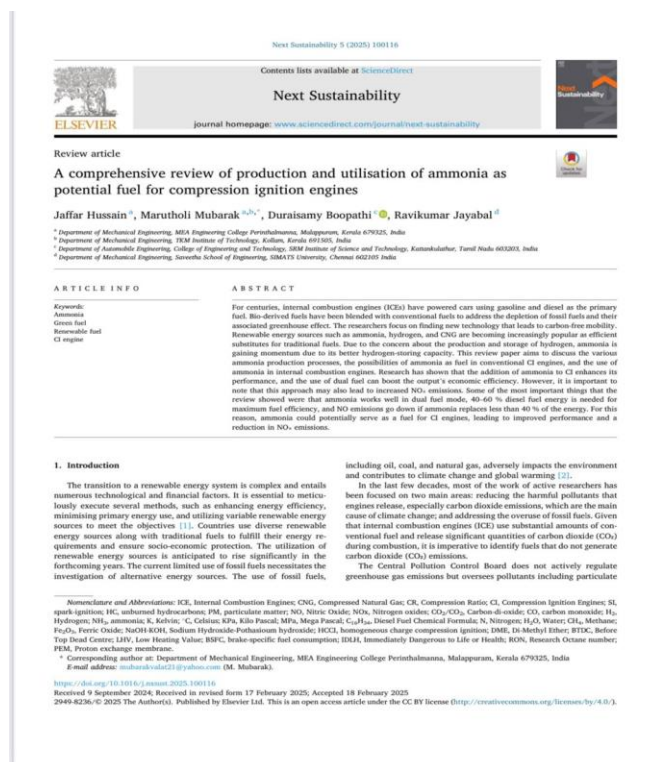


- Nikhil N, S8 ME student secured third prize in the 8 kg Robo War held at SSM Polytechnic College, Tirur on February 21st and 22nd 2025.
- Nikhil N, S8 ME student secured First prize in Robo soccer held at Bishop Jerome Institute of Technology, Kollam on February 23rd 2025.
- Goutham S of S8 ME got core placement on Ashok Leyland Hosur as Company Engineer Trainee as a part of attending a placement drive at VKCET on January 31st.



4. Paper Publication

- A paper was published by Dr. Mubarak M. on the journal “Next Sustainability” of Elsevier publication on the topic “A comprehensive review of production and utilisation of ammonia as potential fuel for compression ignition engines”.



5. FDP attended by faculties

- Dr. Mubarak M. attended a faculty development programme organised by *AICTE Training And Learning (ATAL) Academy Faculty Development Program* on **ADVANCES IN METAL ADDITIVE MANUFACTURING: TODAY, TOMORROW, AND BEYOND** at National Institute of Technology Calicut from 27/01/2025 to 01/02/2025.

