SAKTHI POLYTECHNIC COLLEGE, Sakthinagar

DEPARTMENTOFMECHANICALENGINEERING

DETAILS OF INDUSTRIAL VISIT:2025-2026 (ODD SEM)

Industrial Visit

Name of the Industry: *Sakthi Auto Component Limited, pallagoundenpalayam.*

Objective: *To expose students to the operations of an automotive component manufacturing unit, understand production processes, quality control, assembly line management, industrial safety, and the application of engineering knowledge in real-world manufacturing.*

1. Our second-year A-Section Mechanical Engineering students had an insightful and educational visit to Sakthi Auto Component Limited, located in Pallagoundenpalayam, **on 30th July 2025**. This visit provided a valuable opportunity for students to witness the application of engineering principles in the automotive manufacturing sector.

The day began with an engaging presentation about the company's history, products, and the role of mechanical engineers in their operations. Students learned about Sakthi Auto's commitment to quality, innovation, and sustainability in the automotive industry.

During the plant tour, students observed the various manufacturing processes used in the production of high-quality automotive components. They were particularly impressed with the precision machinery, automated assembly lines, and the application of cutting-edge technology in producing components for leading automobile manufacturers. The tour highlighted the importance of teamwork, safety protocols, and efficient resource management in the manufacturing environment.

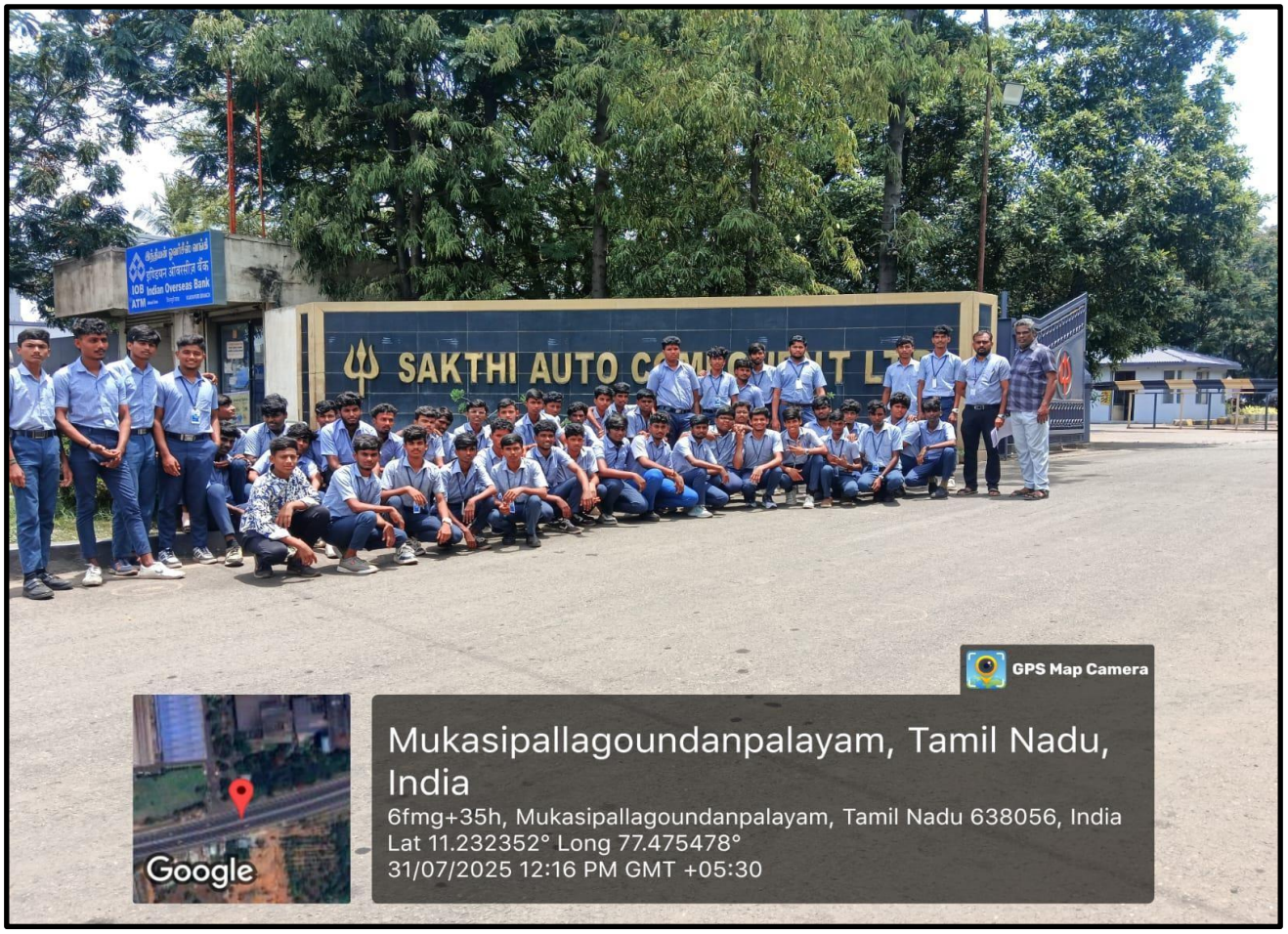
Our students also had the chance to interact with engineers at the facility, asking questions related to the challenges they face in design, production, and quality control. These interactions were immensely beneficial in bridging the gap between theoretical learning and real-world applications.

2. Our second-year B-Section Mechanical Engineering students had an insightful and educational visit to Sakthi Auto Component Limited, located in Pallagoundenpalayam, **on 31th July 2025**. This visit provided a valuable opportunity for students to witness the application of engineering principles in the automotive manufacturing sector.

The day began with an engaging presentation about the company's history, products, and the role of mechanical engineers in their operations. Students learned about Sakthi Auto's commitment to quality, innovation, and sustainability in the automotive industry.

During the plant tour, students observed the various manufacturing processes used in the production of high-quality automotive components. They were particularly impressed with the precision machinery, automated assembly lines, and the application of cutting-edge technology in producing components for leading automobile manufacturers. The tour highlighted the importance of teamwork, safety protocols, and efficient resource management in the manufacturing environment.

Our students also had the chance to interact with engineers at the facility, asking questions related to the challenges they face in design, production, and quality control. These interactions were immensely beneficial in bridging the gap between theoretical learning and real-world applications



HoD **Principal**

SAKTHI POLYTECHNIC COLLEGE, Sakthinagar

DEPARTMENTOFMECHANICALENGINEERING

DETAILS OF INDUSTRIAL VISIT:2025-2026 (ODD SEM)

Industrial Visit

The Department of Mechanical Engineering organized an industrial visit for the third-year students (A&B) to **Aqua Group of Industries (Pump Division)** on **24 September 2025**. The visit aimed to enhance students' practical knowledge of pump manufacturing technologies, industrial practices, and quality control processes followed in a leading engineering industry.

During the visit, students were given a detailed orientation on the company's history, product range, and its contribution to the pump and water management sector. The technical team at Aqua Group explained the complete manufacturing workflow, starting from raw material inspection to machining, assembly, testing, and final quality verification of various types of pumps.

Students gained valuable exposure to advanced machining operations, CNC manufacturing, impeller design, hydraulic testing, motor integration, and automated assembly processes. The visit also highlighted essential industry practices such as Total Quality Management (TQM), lean manufacturing, supply chain coordination, and safety standards followed on the shop floor.

The interactive session with industry experts enabled students to understand real-time engineering challenges, modern production techniques, and current trends in pump technology. The visit significantly strengthened the students' understanding of theoretical concepts learned in the classroom and provided them with insights into the expectations of the manufacturing sector.

HoD **Principal**