



M.G. M.'s COLLEGE OF ENGINEERING, NANDED
Department of Electronics and Telecommunication Engineering



Electronics Technocrats Association (ETA)

Name of the activity:	Industry Visit
Date:	05/04/2025
Activity Coordinator:	Prof. D. J. Tuptewar, Dr. Mangal Banwaskar, Mr. Nitin Parik
Number of participants:	36

Introduction

As part of its ongoing efforts to bridge the gap between academic knowledge and industrial applications, the **Electronics Technocrats Association (ETA)** organized an **industry visit** to **Devgiri Electronics Cluster** and **Indo German Tool Room (IGTR)** at **Sambhajinagar**. The visit aimed to provide students with hands-on exposure to real-world industrial environments, with a focus on **manufacturing processes, PCB fabrication, sensor technologies**, and other modern engineering practices.

This visit allowed students to witness how engineering principles are implemented in practical scenarios and to better understand the functioning of key industrial units involved in electronics and mechanical systems manufacturing.

Objectives

- To offer students direct exposure to **industry-standard practices** and **workplace environments**.
- To understand the **processes involved in PCB fabrication**, sensor applications, and manufacturing techniques.
- To connect theoretical concepts with real-time industry practices for deeper learning.
- To introduce students to the **latest tools, machinery, and quality control methods** used in industries.
- To inspire students to pursue industry-relevant projects, internships, or career paths.



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Outcomes

- Students gained valuable **practical insights into manufacturing processes**, including CNC machining, sensor integration and quality inspection.
- Understood the **complete workflow of PCB fabrication**, from design to final testing.
- Observed real-time **automation and instrumentation techniques** used in modern industries.
- Improved awareness of **safety standards**, equipment handling, and **industry expectations**.
- Strengthened the connection between academic learning and professional applications, enriching students' technical and professional perspectives.

Program Outcomes (POs) Addressed

- **PO1: Engineering knowledge** – Applied core knowledge of electronics in understanding industry processes.
- **PO2: Problem analysis** – Observed real-world systems and processes to understand engineering challenges and solutions.
- **PO3: Design/development of solutions** – Gained exposure to design aspects involved in PCB and sensor-based systems.
- **PO5: Modern tool usage** – Explored advanced tools and equipment used in fabrication and automation.
- **PO7: Environment and sustainability** – Noted sustainable practices in industrial processes where applicable.
- **PO12: Lifelong learning** – Encouraged continuous learning by understanding current trends and technologies in the industry.

Feedback

The industry visit was **highly appreciated** by the participating students, who described the experience as **eye-opening and informative**. They valued the opportunity to observe industrial applications of the concepts learned in classrooms. Faculty members accompanying the group also noted improved student curiosity and engagement following the visit. The industry hosts at Devgiri Electronics cluster and IGTR praised the students for their discipline and interest, and encouraged further academic-industry collaborations.

Glimpses of Industry Visit **Devgiri Electronics Cluster** and **Indo German Tool Room (IGTR)** at **Sambhajinagar** April 2025



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