

Industrial Visit to Ace Designers Ltd-Machining Center Division

The department of Mechanical Engineering, MVJ College of Engineering, organised an industrial visit on **13-09-2025** to **Ace Designers-Ltd–Machining Center Division-Peenya**, Bangalore from **01:30 pm to 04:00 pm**. Mr. **Dharshan H S**, Senior Engineer, was the point of contact from Industry for the Industrial Visit.

Objectives of the Event

The primary objectives of the event were:

- To provide students with firsthand experience of industrial operations, manufacturing processes, and workplace culture.
- To familiarise students with modern machinery, tools, and technologies used in the industry.
- To deepen students' understanding of engineering concepts through observation and interaction with industry professionals.

Event Overview

The Industrial Visit to Ace Designers Ltd – Machining Center Division-Peenya, Bangalore was conducted to give students an overview of the different types of machining centres for precision manufacturing of components. A group of 38 students of 5th semester and 7th semester, along with Faculty coordinator Prof. Shivakumar H D, left MVJ College of Engineering premises by a specially hired BS VI(Bharath Stage VI) BMTC Bus at 11.30 am and reached the company premises at 1:30 p.m. All company safety protocols were submitted at the company reception, and students marched with discipline and queued in the company's lounge along with the visitor identification cards provided by the security head of the company authorities, Mr Mallayya. The students, along with the faculty member, were received by Mr Dharshan H S, Senior Engineer and were briefed about the day's agenda. The students and faculty members then assembled at the Koshalya Conference Hall, and Do's and Don'ts in the company premises were briefed to the students, followed by the introduction of the company by Mr Kartikeyan. Mr Mallayya, the security head, briefed about the

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safety protocols and all safety tools were issued to the students before visiting the company facilities.

The industrial visit started at 2:10 pm. The students and faculty members were taken to the Engine Assembly Shop. The students were briefed about all the tools and equipment in the shop by the department's Senior Engineer, Mr Dharshan H. S. This was followed by a visit to the CNC MACHINES Assembly division. The engineer, Mr Mahesh Bhat, explained about the Power transmission in Machines at the division. At 3:30 p.m., the students and faculty members were taken to the Roll of area and Dispatch area. The students were briefed about all the tools and equipment in the department, and the process of testing was explained by the Senior Executive Engineer, Mr Nagesh Adiga. The departmental heads gathered back at Nalanda Conference Hall for a question-and-answer session, followed by feedback. The students expressed their gratitude. The Industrial visit provided a great insight into the technical and process machinery of CNC machines and testing equipment. On behalf of the college, Prof. Shivakumar H D conveyed our thanks to the company officials for the Industrial Visit. The Industrial Visit concluded with a Group Photo as shown in Figure 1 at the Company entrance gate. Finally, the students and faculty members departed from the company to the college.



Figure 1: Students and Faculty Member at the entrance gate of Ace Designers Ltd – Machining Center Division, Peenya, Bangalore.

Outcomes and Impact

- The students were able to understand the design and manufacture of CNC Machines and components ,and the ability to build and integrate entire systems.
- Students observe CNC machining operations, automation systems, and production workflows, gaining practical insights beyond classroom learning.
- Visiting the shop floor allows students to see advanced machinery, tools, and technologies in action, enhancing their understanding of mechanical and manufacturing engineering concepts.
- Interaction with Industry Experts, The QA session at Nalanda Hall provides an opportunity to engage with professionals, ask questions, and understand industry expectations.

Conclusions

The industrial visit helped Students gain awareness of safety protocols, professional etiquette, and career inspiration through exposure to a reputed company like Ace Designers, fostering discipline and networking opportunities. They also gained academic concepts from CAD/CAM and manufacturing technology to real-world industrial applications through advanced precision machining centres.

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