

Department of Mechanical Engineering

A.Y. 2024-25 SEM-I

Exploring Advanced Manufacturing Techniques at TjB Fabtech

1. **Event Title** – Industrial visit report TjB Fabtech
2. **Event Date:** 19/09/2024
3. **Event Conduction Duration:** 1:45 Pm to 3:30 Pm
4. **Event Venue:** TjB Fabtech , Plot D1/29, MIDC Ambad Nashik 422010
5. **Event Resource Person /Guest Details:** - Mr.Nilesh Khade
6. **Visits Coordinator:** Dr. P. P. Kulkarni
7. **Visits staff coordinator:** Prof. S. J. Chede, Prof. S. M. Mahajan & Prof. K. P .Joshi
8. **Expected Audience:** SE, TE & BE Mechanical Engineering Students
9. **Number of Participants:** 75

10. Company Profile –

TjB Fabtech is a prominent player in the field of manufacturing, primarily engaged in architectural and engineering activities as well as technical consultancy. The company specializes in the production of medical furniture, supermarket racks, hardware racks, slotted angle racks, electric panels, and a wide range of cutting and sheet metal work.

TjB Fabtech's expertise also extends to advanced CNC bending, laser sheet metal cutting, and other precision-driven processes. They are renowned for providing technical solutions that cater to various industries, ensuring high standards of quality and innovation.

11. Event Objectives & Outcomes:

Objectives:

1. To provide students with a hands-on understanding of **sheet metal fabrication** processes and related technologies.
2. To introduce students to the **CNC bending** and **laser cutting** techniques employed in modern manufacturing industries.

3. To offer practical exposure to **manufacturing processes** and **technical testing**, helping students bridge the gap between theoretical knowledge and real-world applications.
4. To familiarize students with the operation and importance of **precision manufacturing** in industries like **medical equipment** and **retail infrastructure**.

Outcomes:

1. Students gained insight into **cutting-edge manufacturing techniques** such as CNC bending and laser sheet metal cutting, used widely in the production of industrial and consumer goods.
2. The visit enhanced students' understanding of **engineering consultancy** and its importance in delivering innovative solutions in various sectors.
3. Students were able to observe the practical application of their classroom knowledge in the **fabrication of specialized equipment**.
4. The exposure to **automation in manufacturing** and the use of **modern machinery** deepened their knowledge of **precision engineering**.
5. The visit provided an excellent opportunity for students to engage with industry professionals, fostering a stronger connection between academic learning and industrial practices.

12. Purpose of visit –

The primary purpose of this industrial visit was to expose students to the practical aspects of sheet metal fabrication and related cutting-edge technologies. The visit allowed students to witness first-hand how advanced machinery such as CNC bending machines and laser cutting systems are used in the production of various industrial products, including medical equipment and electrical panels. This exposure is crucial for their academic development and future careers in mechanical engineering and manufacturing sectors.

The visit to TjB Fabtech was an informative and engaging experience, providing students with

valuable industry insights and enhancing their understanding of modern manufacturing processes. It offered a unique opportunity for the students to observe the integration of technology and engineering in the production environment, broadening their knowledge and inspiring them to explore further in the field of mechanical engineering.

13. Photos



Mr. Nilesh explaining the process to students as they observe the product closely

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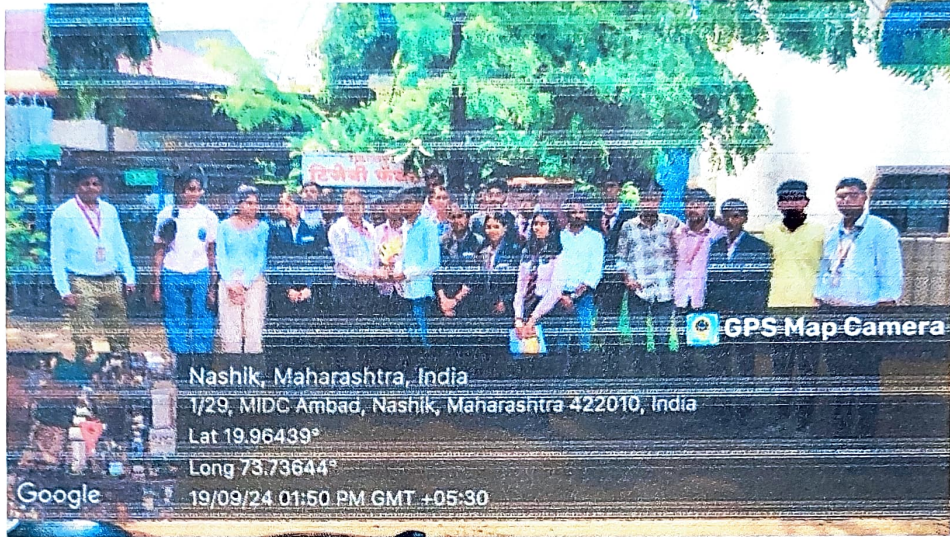
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Honoring the Core Company Team by Mechanical Engineering Students

P.P. Keri

Event Coordinator

A.S. Dube

Dr. A. S. Dube
HOD

D.P. Patil

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