

Industrial Visit Report: 3DMonotech

On 15.04.2025 a group of 19 students of VI Sem B.Tech Mechanical Shift II, Mr. M. Balasrinivasan, Dr. S. Ravikumar and Dr. Serajul Haq have visited 3DMonotech, located in Ambattur Industrial Estate, Chennai. The purpose of the visit was to gain insights into the operations of a leading company in the field of 3D printing technology and to understand the applications and implications of additive manufacturing in various industries.

Company Overview

3DMonotech is a prominent player in the 3D printing sector, specializing in providing innovative solutions for rapid prototyping, product development, and manufacturing. The company focuses on delivering high-quality 3D printing services and products, catering to diverse industries such as automotive, aerospace, healthcare, and consumer goods.

Objectives of the Visit

1. To understand the technology and processes involved in 3D printing.
2. To explore the applications of 3D printing in various industries.
3. To interact with industry professionals and gain insights into career opportunities in the field of additive manufacturing.

Arrival and Introduction

The visit commenced at 10:30am where the group was welcomed by Mr. Chandrmouli, the HR of 3DMonotech. After a brief introduction to the company's history and mission, the team was divided into smaller groups for a more interactive experience.

Facility Tour

The tour of the facility included the following key areas:

1. **Production Floor:**
 - The group observed various 3D printers in operation, including FDM (Fused Deposition Modeling) and SLA (Stereolithography) machines.
 - The guide explained the working principles of each technology, highlighting their advantages and limitations.
2. **Post-Processing Area:**
 - The importance of post-processing in achieving the desired finish and accuracy of 3D printed parts was discussed.
 - Techniques such as sanding, painting, and assembly were demonstrated.

3. Design and Prototyping Lab:

- The lab showcased the software tools used for designing 3D models, including CAD (Computer-Aided Design) software.
- The significance of design optimization for 3D printing was emphasized.

Interactive Session

Following the tour, an interactive session was held where students had the opportunity to ask questions. Key topics discussed included:

- The future of 3D printing technology and its potential impact on manufacturing.
- Career paths in the field of additive manufacturing.
- Challenges faced by the industry, such as material limitations and regulatory issues.

Conclusion

The visit to 3DMonotech provided valuable insights into the world of 3D printing and its applications across various sectors. The hands-on experience and interaction with industry professionals enriched our understanding of the technology and its potential.

We extend our gratitude to the team at 3DMonotech for their hospitality and for sharing their expertise with us. This visit has inspired many of us to consider careers in additive manufacturing and related fields.



