

A BRIEF REPORT ON VISIT TO NAMTECH (New Age Makers Institute of Technology), Gandhinagar

Details of Visit

Plant: NAMTECH

Location: Gandhinagar

Date of Visit: 24/02/26

Time: 5:00 am to 12 pm

Faculty Guide: Bhavina Patel, Nandkishor Joshi

Students: 2nd and 3rd year students of B.Tech.(IC)

1. Introduction

An educational laboratory visit was organized to NAMTECH, Gandhinagar, to understand advanced manufacturing technologies, Industry 4.0 concepts, and modern skill development practices. The visit provided practical exposure to smart manufacturing labs, automation systems, and advanced engineering tools.

2. About NAMTECH

NAMTECH is a future-ready technical institute focused on Advanced Manufacturing, Industry 4.0 Technologies, Robotics & Automation, Artificial Intelligence in Manufacturing, Smart Factory Concepts, and skill-based technical education.

3. Objectives of the Visit

- To understand Industry 4.0 implementation
- To observe advanced manufacturing laboratories
- To gain knowledge about automation and robotics
- To explore career opportunities in smart manufacturing
- To interact with faculty and technical experts

4. Laboratories Visited

Advanced Manufacturing Lab – CNC machines, 3D printing systems, additive manufacturing setups, CAD/CAM software.

Robotics & Automation Lab – Industrial robotic arms, PLC systems, automated conveyor models, sensors and control systems.

Industry 4.0 & Digital Lab – IoT-enabled machines, smart monitoring systems, digital twin concepts, and data analytics.

• Key Learnings:

- Importance of automation in modern industries
- Role of AI and IoT in smart factories
- Real-time production monitoring systems
- Integration of hardware and software in manufacturing
- Skill requirements for future engineers

5. Conclusion

The visit to NAMTECH, Gandhinagar was highly informative and beneficial. It enhanced our understanding of advanced manufacturing technologies and Industry 4.0 practices. The exposure to real-time industrial systems helped bridge the gap between theoretical knowledge and practical application. Overall the educational lab visit was a valuable learning experience.





Report Prepared by Dr. Bhavina Patel