

1. Industrial Visit Report

1. Basic Information

Department : Mechanical Engineering
Institution Name : Appasaheb Alias Sa.Re.Patil Institute Of Technology Dattanagar, Shirol
Semester / Year : ME4K
Date of Visit : 18/02/2026
Industry Visited : Ratnatray Industries Jaysingpur
Location : L.K.Akiwate Industrial Estate, Jaysingpur
Total Students : 56
Faculty Coordinators: Mr. R. S. Magdum

2. Objective of Industrial Visit

1. To bridge the gap between theoretical knowledge and industrial practice.
2. To understand real-time manufacturing processes.
3. To study plant layout and material handling systems.
4. To observe quality control techniques used in industry.
5. To interact with industry experts and understand current industrial trends.

3. About the Industry

- **Name of Industry** : Ratnatray Industries Jaysingpur.
- **Year of Establishment** : 2015
- **Type of Industry** : Manufacturing
- **Main Products** : Carburetors (Bajaj Auto)
- **Number of Employees** : 18

Brief Description:

The industry mainly deals with Small Scale. The plant consists of various departments such as Production, Quality Control, Maintenance, Stores, and Dispatch. They approached mass type and job type production system. The main product is Carburetors (Bajaj Auto). This industry using advanced machinery like CNC, VMC.

4. Departments Observed

4.1 Production Department

- Manufacturing processes used: (Turning, Milling, Drilling, Grinding, Casting, Welding, CNC machining etc.)
- Machines observed: Lathe, Milling Machine, CNC Machine, VMC, HMC, etc.
- Process Flow: Raw material → Machining → Inspection → Assembly → Final Product.

4.2 Quality Control Department

- Inspection instruments: Vernier Caliper, Micrometer, Height Gauge, Surface Plate.
- Quality tools: 7 QC Tools, Process Capability, Control Charts.
- Testing methods: Hardness testing, Tensile testing.

4.3 Maintenance Department

- Preventive Maintenance Schedule.
- Breakdown Maintenance Procedures.
- Lubrication and safety practices.

4.4 Safety Measures

- PPE used: Helmet, Gloves, Safety Shoes.
- Fire Safety Equipment.
- Safety Sign Boards and Emergency Exits.

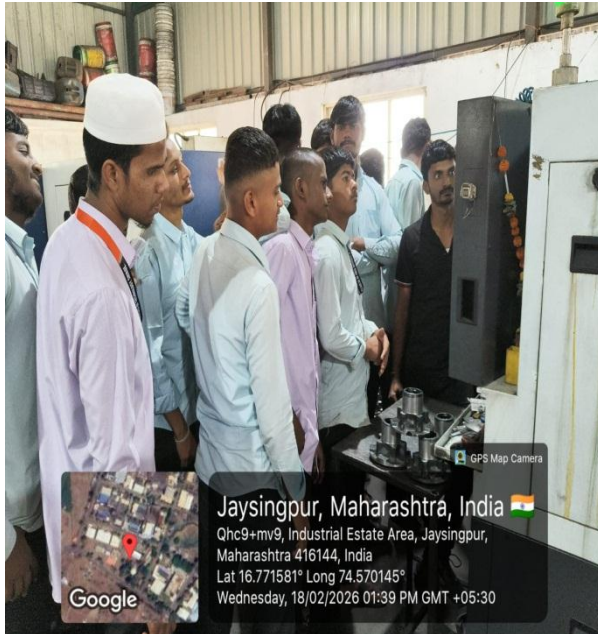
5. Learning Outcomes Achieved

After the visit, students were able to:

Understand practical applications of machining processes.

- Identify different industrial machines and tools.
- Explain quality inspection procedures.
- Describe plant layout and workflow.
- Understand safety regulations in industry.

6. Photographs



7. Interaction with Industry Expert

- **Name of Expert:** Mr.A. J. Patil
- **Designation:** Owner
- **Key Points Shared:**
 - Importance of skill development.
 - Need for CAD/CAM knowledge.
 - Industrial safety awareness.
 - Industry expectations from diploma engineers.
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8. Course Outcomes (CO) Mapping.

CO	Description	PO Mapped
CO1	Understand manufacturing process	PO1
CO2	Identify quality control techniques	PO2, PO4
CO3	Apply safety and maintenance practices	PO5

9. Student Feedback Summary

- Students found the visit informative and practical.
- They gained exposure to real-time production systems.
- The visit improved understanding of manufacturing subjects.

10. Conclusion

The industrial visit was highly beneficial for Mechanical Engineering students. It helped in enhancing practical knowledge, improving technical understanding, and achieving NBA Program Outcomes. The visit successfully connected classroom learning with industrial applications.

11. Signatures

- Industrial Coordinator: _____
- Head of Department: _____
- Faculty Coordinators-----

2. Industrial Visit Report

1. Basic Information

Department : Mechanical Engineering
Institution Name : Appasaheb Alias Sa.Re.Patil Institute Of Technology Dattanagar, Shirol
Semester / Year : ME4K
Date of Visit : 18/02/2026
Industry Visited : Flame Industries Jaysingpur
Location : L.K.Akiwate Industrial Estate, Jaysingpur
Total Students : 56
Faculty Coordinators: Mr. R. S. Magdum

2. Objective of Industrial Visit

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9. To study plant layout and material handling systems.
10. To observe quality control techniques used in industry.
11. To interact with industry experts and understand current industrial trends.

3. About the Industry

- **Name of Industry** : Flame Industries Jaysingpur.
- **Year of Establishment** : 14 May 1978
- **Type of Industry** : Manufacturing & Heat Treatment
- **Main Products** : Auto components
- **Number of Employees** : 80

Brief Description:

The industry mainly deals with Small Scale. The plant consists of various departments such as Production, Quality Control, Maintenance, Stores, and Dispatch. They approached mass type and job type production system. The main

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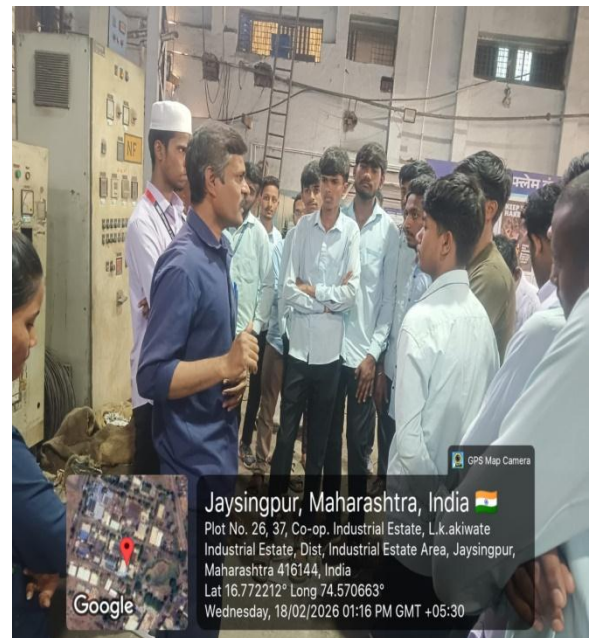
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6. Photographs



7. Interaction with Industry Expert

- **Name of Expert:** Mrs. A. S. Magdum
- **Designation:** HR Manager
- **Key Points Shared:**

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- Need for CAD/CAM knowledge.
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- Industry expectations from diploma engineers.

8. Course Outcomes (CO) Mapping.

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3. Industrial Visit Report

1. Basic Information

Department : Mechanical Engineering
Institution Name : Appasaheb Alias Sa.Re.Patil Institute Of Technology Dattanagar, Shirol
Semester / Year : ME6K
Date of Visit : 18/02/2026
Industry Visited : Space EV Tech Industries Jaysingpur
Location : L.K.Akiwate Industrial Estate, Jaysingpur
Total Students : 17
Faculty Coordinators: Mr. R .S.Magdum

2. Objective of Industrial Visit

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14. To study plant layout and material handling systems.
15. To observe quality control techniques used in industry.
16. To interact with industry experts and understand current industrial trends.

3. About the Industry

- **Name of Industry** : Space EV Tech Industries Jaysingpur
- **Year of Establishment** : 2004
- **Type of Industry** : Manufacturing
- **Main Products** : Auto components
- **Number of Employees** : 70

Brief Description:

The industry mainly deals with Small Scale. The plant consists of various departments such as Production, Quality Control, Maintenance, Stores, and Dispatch. They approached mass type and job type production system. The main

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