

Field Visit to Design Center and Workshop

Activity Report

Academic Year	2024-25
Program Driven by	Field Visit to Design Center and Workshop
Quarter	I
Program / Activity Name	Field Visit to Design Center and Workshop
Program Type	Field Visit to Design Center and Workshop
Program Theme	Innovation
Start Date	21-03-2025
End Date	21-03-2025
Duration of the Activity (in Mins)	6 hrs
Number of Student Participant	50
Number of Faculty Participant	5
Number of external Participant	--
Expenditure Amount in Rs.	
Any Remark	Nice Visit to Workshops
Mode of Session Delivery	Offline
Objective	
Benefit in terms of Learning / Skills / Knowledge obtained	
Feedback	
Video url (mp4)	
Photograph 1 (jpg)	Attached
Photograph 2 (jpg)	Attached
Overall report of the Activity (pdf)	As given below

Report on Visit to Hitachi Automotive Systems, Ltd

1. Introduction

The visit to Hitachi Automotive Systems, Ltd was conducted to gain insights into the company's advanced automotive technologies, manufacturing processes, and future innovation strategies. The objective was to explore potential collaborations and understand their contributions to the automotive industry.

2. Company Overview

Hitachi Automotive Systems, Ltd is a leading global supplier of automotive components and systems, specializing in powertrain systems, chassis systems, safety systems, and advanced vehicle solutions. The company focuses on innovation, sustainability, and automation to enhance vehicle performance and safety.

3. Key Highlights of the Visit

3.1 Facility Tour

- The visit included a guided tour of the manufacturing facilities, where attendees observed cutting-edge production techniques, automation, and quality control measures.
- The company demonstrated its state-of-the-art assembly lines, emphasizing precision engineering and efficiency.

3.2 Technology and Innovation Showcase

- Presentation on Hitachi's advancements in electric and hybrid vehicle technologies.
- Discussion on autonomous driving solutions and AI integration in automotive systems.
- Demonstration of the latest safety features, such as advanced driver-assistance systems (ADAS) and braking technologies.

3.3 Research and Development (R&D) Insights

- Overview of ongoing R&D projects aimed at enhancing fuel efficiency, reducing emissions, and integrating smart technologies into vehicles.
- Insights into collaborations with global automotive manufacturers and industry partners.

3.4 Sustainability and Environmental Initiatives

- Presentation on Hitachi's commitment to sustainability, including the adoption of eco-friendly manufacturing processes and development of energy-efficient automotive solutions.

- Tour of the waste management and recycling initiatives implemented within the facility.

4. Key Takeaways

- Hitachi Automotive Systems, Ltd is at the forefront of innovation in the automotive industry, focusing on electrification, automation, and sustainability.
- The visit provided valuable insights into the company's technological advancements and future business strategies.
- Opportunities for potential collaboration were discussed, particularly in the areas of electric mobility and smart vehicle systems.

5. Conclusion

The visit to Hitachi Automotive Systems, Ltd was highly informative, offering a deeper understanding of the company's role in shaping the future of the automotive industry. The discussions and observations made during the visit will contribute to ongoing projects and future partnerships in the automotive sector.

Recommendations:

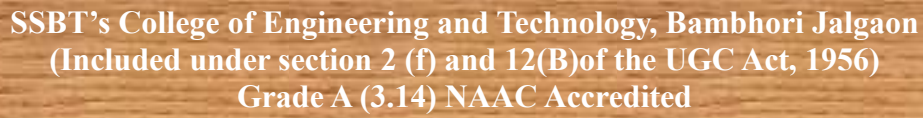
- Explore potential joint research projects in electric vehicle (EV) technology and automation.
- Maintain communication with Hitachi's team for future knowledge sharing and collaboration.
- Conduct further visits to enhance industry insights and foster partnerships.

Objectives of the Visit

- To understand Hitachi's latest advancements in automotive technology.
- To observe their manufacturing processes and quality control measures.
- To explore potential collaboration opportunities in electric and autonomous vehicle technologies.
- To gain insights into the company's sustainability initiatives and environmental strategies.
- To establish professional relationships for future partnerships and knowledge sharing.

Benefits of the Visit

- Gained first-hand knowledge of Hitachi's innovative automotive solutions and future trends.



- Identified opportunities for collaboration in electric mobility and smart vehicle systems.
- Strengthened professional connections with Hitachi's team for future engagements.
- Enhanced understanding of sustainable manufacturing practices and eco-friendly technologies.
- Applied insights from the visit to ongoing and future automotive projects.

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- The visit provided valuable insights into the company's technological advancements and future business strategies.
- Opportunities for potential collaboration were discussed, particularly in the areas of electric mobility and smart vehicle systems.

Coordinator
Dr. P. H. Zope



