



SurTech

Dr. Sudhir Chandra Sur Institute of Technology and Sports Complex

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Department of Automobile Engineering

Report on Industry Visit

Topic: Industry Visit

Organized by: Department of Automobile Engineering, Dr. Sudhir Chandra Sur Institute of Technology and Sports Complex

Industry: Airport Authority of India (AAI)

Date: 20th February, 2025

Time: 10:00 am onwards

Venue: Regional E & M Workshop, Airports Authority of India, New Quarters, N.S.C.B.I Airport, Kolkata – 700052

No. of Participation: 15

Introduction:

The Department of Automobile Engineering at Dr. Sudhir Chandra Sur Institute of Technology and Sports Complex was organized an industry visit at Airport Authority of India (AAI) on 20th February, 2025 from 09:30 am onwards at Regional E & M Workshop, Airports Authority of India, New Quarters, N.S.C.B.I Airport, Kolkata – 700052 for the B.Tech 2nd and 3rd year students. The students were accompanied by Mr. Jayanta Si and Mr. Sandip Bhadra, Technical Assistant, Department of Automobile Engineering.

The visit aimed to help students understand the role of E & M services in airport management, covering aspects such as power supply, runway lighting, ground support equipment, and maintenance of airport facilities.

Background:

The Regional E & M Workshop at Airports Authority of India (AAI) is responsible for maintaining the electrical and mechanical infrastructure that ensures smooth airport operations. The Automobile Engineering students were introduced to various aspects of airport vehicle and equipment maintenance, which are crucial for safe and efficient airport services.

Objective:

The primary objectives of the visit were:

- To provide students with insights into airport vehicle management and maintenance.
- To learn about maintenance practices, troubleshooting, and safety protocols.
- To introduce students to advanced technologies used in airport electrical and mechanical engineering.
- To familiarize students with the maintenance and servicing of airport vehicles and machinery.
- To enhance students' knowledge of career opportunities in airport operations and aviation

maintenance.

Overview of the Visit:

During the visit, students were introduced to several key areas, including:

- a) Mechanical Maintenance of Airport Vehicles
 - ❖ Routine servicing and troubleshooting of airport vehicles and specialized equipment.
 - ❖ Engine performance analysis and emission control in aviation ground vehicles.
 - ❖ Hydraulic and pneumatic systems used in airport machinery.
- b) Safety and Emergency Response Mechanisms
 - ❖ Firefighting vehicles and rapid response mechanisms in aviation emergencies.
 - ❖ Safety protocols for handling hazardous materials and fuel management.
 - ❖ Preventive maintenance strategies to enhance vehicle efficiency and durability.
- c) Career Opportunities in Airport Automobile Engineering
 - ❖ Job roles in airport vehicle maintenance operations.
 - ❖ Skills required for careers in aviation automobile servicing and airport infrastructure maintenance.
 - ❖ Industry advancements in electric and hybrid airport vehicles for sustainable aviation.

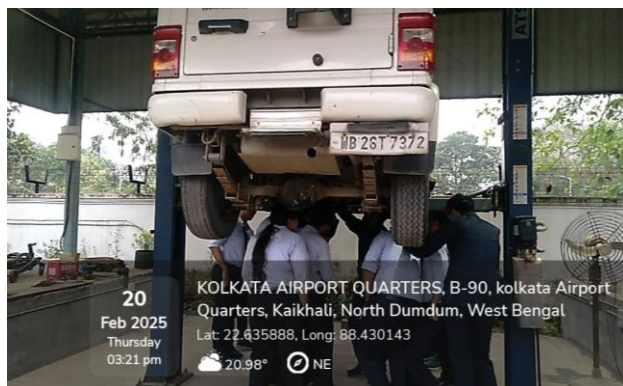
Learning Outcomes:

By participating in this visit, students:

- Gained a practical understanding of airport vehicle management and servicing.
- Learned about electrical systems, power backup, and runway lighting in airports.
- Understood the importance of firefighting and emergency response vehicles in aviation safety.
- Discovered career opportunities in airport automobile maintenance operations.

Conclusion:

The industry visit to the Regional E & M Workshop, AAI was highly informative and beneficial for students. It provided them with a practical understanding of airport maintenance challenges and technological advancements. The session also helped students connect their academic knowledge with real-world applications in aviation engineering and infrastructure management.





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