



**Uka Tarsdia University**  
**Automobile Engg. Dept.**  
**CGPIT**

**Field Visit / Industrial Visit**  
**BPR Sales & Service, Bardoli**

**Date:** 19<sup>th</sup> September 2024

**Venue:** BPR Sales & Service, Bardoli

**Time:** 12:15 pm to 2:45 pm

**Total No. of Participants:** 08

**Event Coordinator:** Dr. Hiren Shah

**Program objective:** To understand the Vehicle HVAC system.

**Program outline:**

- Introduction to Vehicle HVAC System in Ambulances: Components and Functions.
- Hands-on Demonstration: Understanding Installation, Operation, and Maintenance.

**Program outcomes:**

- Enhanced Understanding: Participants grasp the functionality and importance of HVAC systems in ambulances for patient care.
- Practical Knowledge: Participants gain insights into troubleshooting common issues and maintaining optimal performance.
- Safety Awareness: Participants learn about safety protocols and regulations concerning vehicle HVAC systems, ensuring efficient and safe operation in emergency situations.

## Schedule of Event

Time	Activity
12:15 pm	Started from College
12:35 pm	Reached to BPR Sales & Service,
02:20 pm	Started return Journey
02:45 pm	Reached UTU, Maliba Campus

## List of Participants

Name of Participant	Enrolment No	Stream	Name of Program
Om Kalathiya	202203103510314	B.Tech	Automobile Engineering
Aditya D Ppatel	202203103510421	B.Tech	Automobile Engineering
Rahul A Mewara	202203103510432	B.Tech	Automobile Engineering
Rohan D Kansara	202303103520024	B.Tech	Automobile Engineering
Harshal S	202303103520025	B.Tech	Automobile Engineering
Vinit D Desai	202303103520057	B.Tech	Automobile Engineering
Rashesh Savaliya	202303103520085	B.Tech	Automobile Engineering

## Event Introduction:

The field visit conducted on September 19, 2024, by BPR Sales and Service, proprietor Mr Jay, aimed to provide final year B.Tech automobile engineering students with insights into the AC system of vehicles, particularly focusing on the ambulance model Tempo Traveller. This event held great significance as it bridged theoretical knowledge with practical application, offering students real-world exposure to vehicle HVAC systems, crucial for their academic and professional development. They are using Subros Company's components for HVAC work. Subros is India's largest and only integrated manufacturer of automotive air conditioning systems. They cater to a variety of segments, including passenger vehicles, buses, trucks, refrigeration transport, off-landers, railways, and residential air conditioners.

## Key Highlights:

- In-depth Demonstration: Students were given a comprehensive overview of the AC system installed in the Tempo Traveller ambulance, highlighting its components, functioning, and importance in ensuring patient comfort and safety during transit.
- Practical Insights: Hands-on sessions enabled students to explore the installation, operation, and maintenance procedures of the AC system under the guidance of experienced technicians.
- Industry Relevance: Discussions revolved around the significance of vehicle HVAC systems in catering to diverse clientele, including government agencies, NGOs, MNCs, and multi-specialty hospitals in the South Gujarat region.

## Overview of Schedule:

- Introduction to BPR Sales and Service and its association with Force Company's Tempo Traveller ambulance unit.

- Discussion on the design and functionality of vehicle HVAC systems, with a focus on the ambulance model.
- Hands-on demonstration and interactive sessions.
- Q&A session to address student queries and foster a deeper understanding.

### **Notable Discussions:**

- **Importance of HVAC Systems:** Emphasis was placed on the critical role of AC systems in ensuring patient comfort, maintaining proper ventilation, and preventing the spread of infections within ambulance compartments.
- **Technical Challenges:** Discussions centered around common issues faced in vehicle HVAC systems and strategies for troubleshooting and preventive maintenance.
- **Industry Trends:** Insights were shared on emerging technologies and innovations in vehicle AC systems, aligning with the evolving needs of the healthcare and transportation sectors.

### **Overall Success and Impact:**

The event proved highly successful in achieving its objectives of familiarizing students with vehicle HVAC systems, particularly in ambulance settings. Students gained practical insights, industry-relevant knowledge, and a deeper appreciation for the complexities involved in ensuring optimal AC performance in critical healthcare scenarios. The event's impact extended beyond the classroom, empowering students with valuable skills and perspectives essential for their future careers in the automotive industry.





## **Concluding Remarks**

- The objectivity of the program as per the NAAC criteria
- Mention the NAAC criteria and its relevance.

Industrial visits primarily fall under the following criteria of NAAC:

- **Criterion 4: Infrastructure and Learning Resources**  
This criterion assesses the adequacy and utilization of infrastructure and learning resources, including external resources such as industrial visits, to enhance the quality of education and student learning outcomes.
- **Criterion 5: Student Support and Progression**  
This criterion evaluates the effectiveness of student support services, including career guidance and counseling, in facilitating student progression and ensuring their holistic development. Industrial visits play a crucial role in providing students with exposure to industry practices and potential career pathways.

Report prepared by: Dr. Hiren A. Shah

Date: 19<sup>th</sup> September 2024

Sign of the HOD

Prof. Darshan A. Kapadia

Sign of Director

Prof. B. M. Vadher