

**A. D. Patel Institute of
Technology**
New Vallabh Vidyanagar
**Industrial Visit at”,
“GSRTC Central Workshop,
Ahmedabad”**
Date: 13.09.2024
(Under the Banner of IIC)

- ❖ **Date:** 13.09.2024
- ❖ **Time:** 09 am to 04:00 pm
- ❖ **Institute:** A. D. Patel Institute of Technology
- ❖ **Industry/company/agency:** GSRTC Central Workshop, Ahmedabad
- ❖ **Coordinator:** Prof. Samarth J Shelat & Prof. Satyavrat Patel
- ❖ **Convener:** Dr. Bhagirath Prajapati

❖ **Banners (Support from professional Societies)**

Sr. No		Name of Co-coordinator/Mentor/Counselor at A.D.I.T
1	Institution's Innovation Council (IIC)	<ul style="list-style-type: none">• Dr Bhagirath Prajapati (Convener)• Prof. Khushali Patel (Co-convener)
2	Applicable cell or professional society	<ul style="list-style-type: none">•

❖ **Delegates:**

Sr. No	Name of the Speaker	Designation and Short Introduction of Speaker
1	Mrs. Unnaati R. Patva	Assistant Workshop Manager, GSRTC, Ahmedabad

- ❖ **No of Students Participants: 19**
- ❖ **No. of faculty Participants: 02**

❖ **Objective, Outcomes and brief report of Industrial Visit:** The visit's objective was to allow students to interact with GSRTC Experts and learn about the technical exposure of several GSRTC departments, production lines, assembly departments, and bodybuilding shops. Industrial visit was carried out at GSRTC Central workshop on 12th September 2024 especially for final year student. The main objective behind the visit was to make student aware about how various activities related to bus body building and maintenance are carried out for state run buses. I along with 20 students left for visit in college bus at 8:45 a.m. and took about one and half hour to cover the distance. The workshop is located at Naroda, Ahmedabad. As soon as we reached the workshop we were guided by the resource person Mrs. Unnati Madam of GSRTC who helped us to see the entire facility of workshop. Further, students were divided in two groups and they visited departments like Machine shop, Engine shop, Fuel injection department, Bus body building, Paint shop, tire shop etc. and obtained the deep knowledge of the production and functioning of the organization. Students were quite impressed with the kind of facilities available over there and it was very good opportunity for us to see how the practical things like body work, maintenance of various automobile components, tire retreading, painting, fabrication is carried out. The entire workshop is divided into various departments which are: Tire Shop: The tire retreading procedure was being carried out in the workshop. Honing of old tires and removing of the upper worn out layer was done. Two different types hot and cold retreading is done here. New tire treads are being fixed on the tires with the help of adhesives and then they are heat treated at 175 C for about 15minutes. These tires are reused in the buses and are capable to travel another thousands of kms. Tire retreading can only be done maximum 2 to 3 times for a particular tire. Engine Shop: The servicing of old engines is done here. The dis-assembling, honing, boring, sleeve fitting and re assembling procedure is carried out in this department. Firstly, the engine is honed with the help of honing machine and further boring operation is carried out according to requirement of engine conditions. Fuel Injection: The servicing of diesel injection feed pump were carried out over here. Firstly, the pump is fitted on the test bench and after that it is run at certain RPM to know the amount of pressure and quantity reaching into the cylinder. Usually pump was tested for 3-4 times at various RPM before a quality certificate was given. Body Shop: The bus body shop was the heart of the entire workshop where fabrication of bus body is carried out on the chassis supplied by OEM. Here, the cutting of the body metal in different shapes and sizes for building the body is done. The entire bus body was fabricated in 14 different steps which ranges from sheet cutting, welding, foaming, riveting etc. Paint Shop: After the body is assembled it is primed and painted according the pre decided colors and also the polishing and vinyl are marked here. Upholstery Shop: After the painting of the body is done, inner trim, seats, windows and windshields are fitted on the body, after which the bus completes the entire manufacturing procedure.

❖ **Expenditure:** 826 INR

❖ **Photographs:**





❖ List of Participants: (Attendance Sheet):

Permit Number GJ2024-SPL-0938D
 Name of Permit Holder A D PATEL INSTITUTE OF TECHNOLOGY
 Registraion Mark GJ23AT9422 Chassis Number MC2R5NRT0NC076672
 Validity of Special Permit From: 12-Sep-2024 To: 12-Sep-2024

Passenger List

Srno	Name	Age	Gender	Address
1	PATEL DEV NIMESHK UMAR	19	MALE	ADIT COLLEGE, NEW V V NAGAR
2	DHRUVIN RAKHASIA	20	MALE	ADIT COLLEGE, NEW V V NAGAR
3	HUSEN ZAKIRBHAI VH ORA	20	MALE	ADIT COLLEGE, NEW V V NAGAR
4	KRISH VAGHELA	20	MALE	ADIT COLLEGE, NEW V V NAGAR
5	PATEL MEET RAKESH BHAI	20	MALE	ADIT COLLEGE, NEW V V NAGAR
6	RUSHIKESH SOLANKI	21	MALE	ADIT COLLEGE, NEW V V NAGAR
7	SHOBHIT BOBIN	21	MALE	ADIT COLLEGE, NEW V V NAGAR
8	VANDIT SHAH	21	MALE	ADIT COLLEGE, NEW V V NAGAR
9	ADIT PANKAJKUMAR PATEL	22	MALE	ADIT COLLEGE, NEW V V NAGAR
10	KISHAN KUMAR	24	MALE	ADIT COLLEGE, NEW V V NAGAR
11	KULDEEP PARMAR	22	MALE	ADIT COLLEGE, NEW V V NAGAR
12	MIHIR GAJJAR	22	MALE	ADIT COLLEGE, NEW V V NAGAR
13	JOSHI RAJ HASMUKH	21	MALE	ADIT COLLEGE, NEW V V NAGAR
14	KADAM RISHI ROHIT	21	MALE	ADIT COLLEGE, NEW V V NAGAR
15	PATEL RUSHABH RAM CHANDRABHAI	19	MALE	ADIT COLLEGE, NEW V V NAGAR
16	SHAIL VIPULKUMAR PATEL	26	MALE	ADIT COLLEGE, NEW V V NAGAR
17	SAVANT SHANKAR MOHAN	20	MALE	ADIT COLLEGE, NEW V V NAGAR
18	SMIT SANJAY MODI	21	MALE	ADIT COLLEGE, NEW V V NAGAR
19	MAKWANA VEDANT RAMESHBHAI	21	MALE	ADIT COLLEGE, NEW V V NAGAR
20	SAMARTH JAYESHBHAI SHELAT	38	MALE	ADIT COLLEGE, NEW V V NAGAR
21	SATYAVRAT PANKAJBHAI PATEL	35	MALE	ADIT COLLEGE, NEW V V NAGAR