

A. D. Patel Institute of Technology
New Vallabh Vidyanagar
Industrial Visit at
“Faculty of Vehicle Technology,
EME School, Vadodara”

Date: 19.09.2024

(Under the Banner of IIC)

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- ❖ **Date:** 18.09.2024
 - ❖ **Time:** 10:00 am
 - ❖ **Institute:** A. D. Patel Institute of Technology
 - ❖ **Industry/company/agency:** Faculty of Vehicle Technology, EME School, Vadodara
 - ❖ **Coordinator:** Prof. Simit Prajapati & 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	Subedar S. K. Mishra	Faculty of Vehicle Technology, EME School, Vadodara

- ❖ **No of Students Participants: 18**
- ❖ **No. of faculty Participants: 02**

❖ Objective, Outcomes and brief report of Industrial Visit:

- ❖ The aim about the visit was to learn about the different Vehicle Systems and the Defense systems which was achieved by students. During the EME visit we learned about the different Army Defense Equipment's, Tanks, Small Arms etc. along with we also learned about the discipline which should be followed in our daily lives. At the FVT we came to know about the different special purpose vehicles and their role in the defense along with the transmission systems, braking systems, engines used along with the type of drives these vehicles had.
- ❖ We visited the FVT (Faculty of Vehicle Technology). Firstly, we were given Briefing by Subedar S. K .Mishra about the Army Vehicles and how they provide technical support. Then we visited the workshop where the vehicles like Tatra, HRV AV-15 etc. were kept. The overview about these vehicles was given by Mr. Sanjay where we came to know about the transmission, braking, and other systems used in the above-mentioned vehicles.
- ❖ In the Tatra there was ABS fail safe system. It was available in 4x4, 6x6, 8x8, 10x10 and 12x12. Generally, the 10x10 and the 12x12 was only for the missile system. It had Automatic Transmission and was German Made and had a V8 engine. The HRV in the HRV AV-15 stands for the Heavy Recovery Vehicle. There was SCANIA Engine with Automatic Transmission with 2 planetary sets. There were 6 forward and 2 Reverse gears. The weight was 15 tons.
- ❖ Then we saw the Tata HMV (Heavy Mobility Vehicle) – MHC (Material Handling Crane) Vehicle and then we moved to the Engineering Equipment Group. It had JCB engines and there was the Hydraulics Lab.
- ❖ The Next was the Light Vehicle Group where we saw the Mahindra Scorpio and Gypsy which these vehicles were used and we saw the Variable Geometry Turbocharger. There was also the Front Axle Disconnecter along with Rear Differential Lock.
- ❖ **Expenditure:** 1090/-
- ❖ **Photographs:**





❖ List of Participants: (Attendance Sheet):



Industrial Visit at Faculty of Vehicle Technology, EME, Vadodara on 18.9.2024

Sr.No.	Enrollment No.	Name	Sign
1	42302810601006	Vadodaria kirtan manishbhai	
2	12302010603001	Aditya Thanki	
3	12302010603002	SOLANKI BADALKUMAR UMESHBHAI	AB
4	12302010603003	MISTRI DHRUV BHARATKUMAR	
5	12302010603004	Maru Kartik Sandipkumar	AB
6	12302010603007	Patel Shivam Hiteshkumar	
7	12302010603010	PATEL VED DHARMESH	
8	12302010603011	Modi Viral Mehul	
9	12302010603012	Vohramohammad Zaid Ananshbhai	AB
10	42302810601001	Arpit padhiyar	AB
11	42302810601002	Sen Bhavin Vasantbhai	
12	42302810601004	BHORANIYA DHARMIKKUMAR BIPINBHAI	
13	42302810601005	Parmar harpal Manojkumar	
14	42302810601007	Kirtirajsinh Chhasatiya	
15	42302810601008	Krish N purohit	
16	42302810601010	Suthar Meetkumar Sanjaybhai	
17	42302810601012	Parekh dharm	
18	42302810601014	Soni Prem Rajkaran	Prem.
19	42302810601015	Macwan priyanshu arvindbhai	
20	42302810601017	Patel Heer Tejas	AB
21	24CtoDAE1	Parmar mehubhai dilipsinh	
22	42302810601009	Thakor Arshad Asifiqbal	
23	42302810601018	Patel Smit	AB
24	12302010603005	Chauhan Manan	
25	Faculty	Smit Prayapati	
26	Faculty	Suhjanvi Patel	
27			