Army Institute Of Technology (AIT), Dighi Camp, Pune - 15.
Director : 7249250115, Joint Director : 7249250117, Principal : 7249250186
Exch : 7249250183, 7249250184, 7249250185
Website : www.aitpune.com Email : ait@aitpune.edu.in
Recognised by AICTE and DTE Maharashtra and affiliated to Savitrabai Phule Pune University

ELECTRIC VEHICLE CLUB

VISION

To be a leading student community that promotes innovation, research, and awareness in electric vehicle technologies, driving the transition towards sustainable and eco-friendly mobility solutions.

MISSION

To be a leading student community that promotes innovation, research, and awareness in electric vehicle technologies, driving the transition towards sustainable and eco-friendly mobility solutions.

Activity No. - 1

Required Field	Information to be filled
Link for publicity on Social media (Facebook//twitter/Instagram)	https://www.instagram.com/ait_evclub/
Academic Year	2024-2025
Name of coordinator	Abhishek Kumar TE EnTC
Program/Activity/Name	E Visualise
Select one of the Program Type (Workshop/FDP/Seminar/Conference/Other)	Other - Intra College event
Start Date	3rd October
End Date	3rd October
Mode of Session delivery (Offline/Online)	Offline
Number of Student Participants	80
Number of Faculty Participants	2
Number of External Participants, If any	0
Expenditure Amount, If any	INR 9000/-
Objectives of activity (min 2)	1.Engage students with EV technology. 2. Test basic understanding of EV domain among students

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ONWARD TO GLORY

EV CLUB

Description of activity	A Pen paper test comprising MCQs and descriptive questions
Faculty Name (Faculty involved in organizing event)	Prof Rajesh Godse Prof Sachin Tanwade
Student Name (student involved in organizing event)	Ashish TE Comp Sambhav TE Mech
Video URL (optional)	
Geo tagged Photograph1 **(JPEG Format max size 2 Mb which shows strength of audience with speaker)**	
Geo tagged Photograph2 **(JPEG Format max size 2 Mb which shows strength of audience with speaker)**	
Session plan/Brochure/Document/overall report of the activity **(JPEG or PDF Format max size 2 Mb)**	Thrilled to share the success of our recent event, E-Visualise, where we embarked on an immersive journey into the fascinating world of electric vehicles and electronics! 🚗⚡ E-Visualise wasn't just a test; it was an engaging exploration that brought together students from diverse departments and academic years. Through a meticulously crafted test structure, participants dived into the intricacies of motor controllers, gearboxes, axles, batteries, fuel cells, wireless charging, accessories, braking systems, steering mechanisms, and more! Beyond the test, E-Visualise fostered a vibrant environment of interdisciplinary learning and collaboration, where students from various backgrounds exchanged ideas, insights, and experiences. It was a platform not only to expand knowledge but also to ignite curiosity and inspire innovation. A heartfelt thank you to all participants, faculty, and organizers for their enthusiasm and dedication in making E-Visualise a resounding success! Let's continue pushing the boundaries of technology and sustainability together! 🚀
Mention the POs mapped with the activity	PO1, PO2, PO3, PO4, PO8, PO10, PO11, PO12

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ONWARD TO GLORY

EV CLUB

Activity No. - 2

Required Field	Information to be filled
Link for publicity on Social media (Facebook//twitter/Instagram)	https://www.instagram.com/ait_evclub/
Academic Year	2024-2025
Name of coordinator	Ashish TE Comp
Program/Activity/Name	TinkerWorks
Select one of the Program Type (Workshop/FDP/Seminar/Conference/Other)	Other - Intra College event
Start Date	4th October
End Date	4th October
Mode of Session delivery (Offline/Online)	Offline
Number of Student Participants	80
Number of Faculty Participants	2
Number of External Participants, If any	0
Expenditure Amount, If any	INR 10,000/-
Objectives of activity (min 2)	1.Engage students with EV technology. 2. Test basic understanding of EV domain among students
Description of activity	Hands on experience on TinkerCAD and Solidswork softwares.
Faculty Name (Faculty involved in organizing event)	Prof Rajesh Godse Prof Sachin Tanwade
Student Name (student involved in organizing event)	Ashish TE Comp Sambhav TE Mech
Video URL (optional)	

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Geo tagged Photograph1 **(JPEG Format max size 2 Mb which shows strength of audience with speaker)**	
Geo tagged Photograph2 **(JPEG Format max size 2 Mb which shows strength of audience with speaker)**	
Session plan/Brochure/Document/overall report of the activity **(JPEG or PDF Format max size 2 Mb)**	
Mention the POs mapped with the activity	PO2, PO3, PO4, PO8, PO10, PO11, PO12

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Activity No -3

Required Field	Information to be filled
Link for publicity on Social media (Facebook//twitter/Instagram)	https://www.instagram.com/ait_evclub/
Academic Year	2024-2025
Name of coordinator	Ankit Kumar SE Mech
Program/Activity/Name	Solutions
Select one of the Program Type (Workshop/FDP/Seminar/Conference/Other)	Other - Inter College event
Start Date	3rd April
End Date	5th April
Mode of Session delivery (Offline/Online)	Offline
Number of Student Participants	100
Number of Faculty Participants	4
Number of External Participants, If any	10
Expenditure Amount, If any	INR 30,000/-
Objectives of activity (min 2)	The objective is to spark students' interest and engagement with electric vehicle (EV) technology by introducing them to its real-world applications and innovations. At the same time, the aim is to assess their fundamental understanding of the EV domain, helping identify their current level of knowledge and areas where further learning can be encouraged.
Description of activity	Provided students platform to share their Ev related knowledge through idea presentation, debates, circuit diagrams.
Faculty Name (Faculty involved in organizing event)	1.Dr. PB Karandikar 2 Dr. Preeti Warrier 3 Prof Rajesh Godse

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	4. Prof Sachin Tanwade
Student Name (student involved in organizing event)	Narender Dotasara SE EntC
Video URL (optional)	
Geo tagged Photograph1 **(JPEG Format max size 2 Mb which shows strength of audience with speaker)**	
Geo tagged Photograph2 **(JPEG Format max size 2 Mb which shows strength of audience with speaker)**	
Session plan/Brochure/Document/overall report of the activity **(JPEG or PDF Format max size 2 Mb)**	The event organized by the EV Club successfully ignited curiosity and enthusiasm among students about electric vehicle technology. It provided a platform to explore the fundamentals of the EV domain, foster meaningful discussions, and assess the participants' understanding of this rapidly evolving field. The event not only strengthened technical awareness but also inspired students to actively contribute to a sustainable and electrified future.
Mention the POs mapped with the activity	PO1, PO2, PO3, PO4, PO10, PO11, PO12

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Visit to Bharat Mobility Global

Expo 2025

By EV Club, *Army Institute of Technology, Pune*

Date of Visit: [18 January 2025]

Venue: Bharat Mandapam, Yashobhoomi, and India Expo Centre & Mart, Delhi NCR Attendees:

Members of the EV Club, Army Institute of Technology, Pune

Objective of the Visit

The primary objective of our visit to the Bharat Mobility Global Expo 2025 was to explore the latest advancements in electric mobility, sustainable transportation, and automotive innovations. We aimed to interact with industry leaders, understand emerging technologies, and gather insights into the future of electric vehicles (EVs) in India.

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Key Highlights of the Expo

1. Electric Vehicles and New Launches

We witnessed several major EV manufacturers unveiling their latest models. Some notable highlights included:

Tata Motors showcased its next-generation electric SUV with an extended range and fast-charging capabilities.

TVS introduced its new CNG concept in two wheelers , International brands like BYD and VinFast presented their innovations in batteryswapping technology and ultra-fast charging solutions.

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2. EV Battery Innovations

The Battery Show segment featured cutting-edge battery technology, including:

Solid-state battery prototypes promising higher efficiency and longer life.

Lithium-sulfur and sodium-ion batteries as potential alternatives to traditional lithiumion technology.

Smart battery management systems (BMS) improving thermal stability and safety in EVs.

3. Charging Infrastructure and Smart Mobility

We explored new developments in charging solutions, including:

Fast-charging stations capable of charging an EV in under 15 minutes.

Wireless charging technology for seamless EV recharging.

AI-driven energy management systems optimizing power consumption for smart cities.

4. Industry Interactions and Networking

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We had the opportunity to interact with industry experts and professionals from leading companies like Tata, Mahindra, Hyundai, and MG Motors. Discussions revolved around:

Challenges in EV adoption, including charging infrastructure and battery costs.

Government policies and incentives promoting electric mobility.

Future trends in autonomous and connected vehicles.

5. Sustainable Mobility and Urban Infrastructure

The Urban Mobility and Infrastructure Show provided insights into:

Smart city integration of EVs with IoT-enabled transport networks.

Hydrogen fuel cell technology as a complementary solution to battery EVs.

Public transportation electrification plans, including electric buses and metro rail systems.

Key Takeaways

1. The EV industry in India is rapidly evolving, with significant advancements in battery technology and charging infrastructure.

2. While the government is pushing for widespread EV adoption, challenges such as range anxiety, battery costs, and charging availability remain.

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3. Smart and sustainable mobility solutions, including AI-driven transport systems, are shaping the future of urban mobility.

4. Networking with industry experts provided valuable insights into career opportunities and the role of engineers in the EV revolution.

Conclusion

The visit to Bharat Mobility Global Expo 2025 was an enriching experience for our EV Club members. It provided us with a deeper understanding of the latest trends and innovations in the electric mobility sector. The knowledge gained will help us contribute to EV projects at our institute and promote sustainable transportation solutions in India.

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