



A Report on
2 Days Workshop
“Accelerating Sustainability: Exploring the World of Electric Vehicles”
(In Gujarati)
28th & 29th November, 2025

Sponsored by: AICTE - ATAL- VAANI

Co-ordinator:
Dr. Sanjay M. Patel
(Head, Automobile Engg.)

Co Co-ordinators:
Prof. Yagnesh Gambhava
(Assistant Prof., Automobile Engg.)

Organized By:

Automobile Engineering Department
A.D Patel Institute of Technology
The Charutar Vidya Mandal (CVM) University
New V V Nagar, Gujarat

Program summary

A two days workshop on **“Accelerating Sustainability: Exploring the World of Electric Vehicles”** was organized on 28th and 29th November, 2025 by Automobile Engineering Department of A. D. Patel Institute of Technology, The Charutar Vidya Mandal (CVM) University, sponsored by AICTE- VAANI.

The workshop was primarily designed for faculty members from Automobile, Mechanical, and Electrical Engineering departments of both degree and diploma colleges, as well as industry delegates. The program featured expert sessions conducted mainly by industry professionals, who provided valuable insights into ongoing academic research and developments in the field of Electric Vehicles.

A total of 51 participants registered for the workshop through the ATAL login portal. All sessions were conducted offline mode at Seminar room no 141 in A. D Patel Institute of Technology, New V V Nagar. A quiz was administered on the final day of the workshop, i.e., 29th November 2025. As per ATAL-AICTE guidelines, participants securing at least 80% attendance and a minimum of 60% marks in the quiz were eligible to provide feedback on the ATAL portal and receive a certificate of participation. Out of the 51 registered participants, 44 participants were marked with the presence on the portal.

The program commenced on 28th November 2025 (Friday) with an inaugural session graced by the presence of Prof. (Dr.) Indrajit Patel, Provost of The Charutar Vidya Mandal (CVM) University, Dr. Vishal Singh, Principal of A.D. Patel Institute of Technology, and Dr. Sanjay M. Patel, Head of Automobile Engineering. During the inauguration, the dignitaries shared their insights and highlighted the objectives, relevance, and expected outcomes of the program, setting a positive tone for the sessions that followed.

The day’s technical deliberations began with Session I, conducted by Mr. Ritul Shah, Founder of Spark Innovations, Vadodara, who provided an in-depth overview of Electric Vehicles (EVs) and battery technologies with a special focus on the current Indian scenario.

Session II was delivered by Dr. Sanjay M. Patel, Head of Automobile Engineering at A.D. Patel Institute of Technology, CVM University, who elaborated on the concept of battery swapping technology, its practical advantages, and various government initiatives promoting its adoption.

After the lunch break from 1:00 pm to 2:00 pm, Session III was led by Mr. Nikunj Kumar Patel, Expert Engineer at Verde Mobility India Pvt. Ltd., V.U. Nagar, who explained EV battery chargers, ecosystem development, and essential testing procedures, accompanied by high tea during the session

The final session of the day, Session IV, was presented by Dr. Ritesh Patel, Head of

Electrical Engineering at GCET, CVM University, who offered a comprehensive understanding of EV motors and their technological significance.

Overall, the program provided participants with valuable exposure to emerging EV technologies, industry trends, and future opportunities in the electric mobility sector.

The second day of the program, held on 29th November 2025 (Saturday), began with breakfast from 9:15 am to 9:45 am, after which the technical sessions commenced. Session V was delivered by Dr. Mitesh I. Shah, Professor of Mechanical Engineering at A.D. Patel Institute of Technology, CVM University, who presented an insightful session on “Electric Vehicles: Energy Management Strategies,” highlighting efficient energy utilization and system optimization techniques for EVs.

Due to an unforeseen medical emergency involving the expert of the second session, the schedule was adjusted, and participants were taken for a visit to the Electric Vehicle Laboratory at Birla Vishwakarma College. During this visit, Dr. Samarth Shelat, Assistant Professor, A. D. Patel Institute of Technology, provided a detailed demonstration of various advanced equipment related to Electric Vehicles, offering valuable practical insights and hands-on exposure to modern EV technologies.

After the lunch break from 1:00 pm to 2:00 pm, Session VII was taken by Mr. Hardik Lakhani, Head of Combustion & Control Applications at VE Commercial Vehicles Ltd., Pithampur, Madhya Pradesh. He discussed “Future Vehicle Technology with Hydrogen,” explaining advancements in hydrogen-based mobility, its potential benefits, and its role in sustainable transportation. High tea was served during the session.

The final technical session, Session VIII, was delivered by Dr. Mukesh Bhesaniya, Director of Needhee Automation Pvt. Ltd., V.U. Nagar, who addressed “EV Converter Configurations and Control,” covering various power converter architectures and control methods essential for EV applications.

The program concluded with a valedictory session, quiz, and participant feedback from 5:00 pm to 5:30 pm, marking a successful end to a highly informative and technology-focused day. The session was coordinated by Dr Nimit Patel, Assistant Professor, CVM University.

All the sessions were monitored and handled by Prof. Yagnesh Gambhava ,Co Co-ordinators.

Dr. Sanjay Patel, Program co-ordinator & Head of the Department, Automobile Engineering, Prof. Yagnesh Gambhava ,Co Co-ordinator, Dr. Vishal Singh ,Principal ,ADIT ,organizing committee of the event, and all the participants are thankful to AICTE-VAANI for sponsoring the Workshop.

Schedule & Details of Eminent Expert Speakers

Sr No	Date & Time	Name of Expert	Title
1	28/11/2025 10.00 am to 11.30 am	Mr. Ritul Shah Founder, Spark Innovations, Vadodara	Overview of EVs and Battery: Indian Scenario
2	28/11/2025 11.30 am to 1.00 pm	Dr. Sanjay M Patel Head, Automobile Engg , A. D. Patel Institute of Technology, CVM University.	Battery Swapping Technology & Govt. promotions
3	28/11/2025 2.00 pm to 3.30 pm	Mr. Nikunj Kumar Patel Expert Engineer, Verde Mobility Ind Pvt Ltd., V.U.Nagar	EV Battery Chargers; Eco System Technology & Testing
4	28/11/2025 3.30 pm to 5.00 pm	Dr. Ritesh Patel Head, Electrical Engg., GCET, CVM University	EV motors
5	29/11/2025 10.00 am to 11.30 am	Dr. Mitesh I. Shah Professor, Mechanical Engineering, A D Patel Institute of Technology, CVM University	Electric Vehicles: Energy Management Strategies
6	29/11/2025 11.30 am to 1.00 pm	Dr. Samarth Shelat Assistant Professor Automobile Engg. A. D. Patel Institute of Technology, CVM University	Operational Demonstration of EV Lab Setup and Instruments
7	29/11/2025 2.00 pm to 3.30 pm	Mr. Hardik Lakhlani Head, Combustion & Control Applications. VE Commercial Vehicles Ltd., Pithampur, MP	Future Vehicle Technology with Hydrogen
8	29/11/2025 3.30 pm to 5.00 pm	Dr. Mukesh Bhesaniya Director, Needhee Automation Pvt Ltd., V.U.Nagar	EV Converter Configurations and Control
9	29/11/2025 5.00 pm to 5.30 pm	Dr. Nimit Patel Asst Prof., CVM University	Feedback, Quiz & Valedictory Session

A WORKSHOP ON:
ACCELERATING SUSTAINABILITY:
EXPLORING THE WORLD OF ELECTRIC VEHICLES
 28-29 November, 2025

SPEAKERS

 Mr. Ritul Shah SPARK INNOVATION VADODARA	 Dr. Sanjay Patel ADIT CVM UNIVERSITY	 Mr. Nikunj Patel EXPERT ENGINEER VERDE MOBILITY IND.PVT.LTD.	 Dr. Ritesh Patel GCET CVM UNIVERSITY
 Dr. Mitesh Shah ADIT CVM UNIVERSITY	 Mr. Dhyey Pandya EV EXPERT VADODARA	 Mr. Hardik Lakhani VOLVO-EICHER INDORE	 Dr. M.M Bhesaniya DIRECTOR NEEDHEE AUTOMATIONS

Organised By:
 Automobile Engineering Department
 A.D.Patel Institute of Technology,
 The Charutar Vidya Mandal (CVM) University

SPONSORED BY: AICTE-VAANI

A D PATEL INSTITUTE OF TECHNOLOGY
 The Charutar Vidya Mandal (CVM) University

AICTE- VAANI Sponsored

2 Days Workshop (Offline) on
"Accelerating Sustainability: Exploring the World of
Electric Vehicles"
 (In Gujarati Language)

28-29 November, 2025

Venue : A D Patel Institute of Technology, New V V Nagar
 Registration : Thru' AICTE-ATAL Portal ONLY

Organised By: Automobile Engineering Department

Coordinators:
 Dr. Sanjay Patel
 Prof.Yagnesh Gambhava

List of Participants Registered for Workshop

Sr No	Name	Phone	Institute Name
1	Dr. Rakesh D. Patel	9825523982	B & B Institute Of Technology
2	Mr. Kartik Dhirajlal Pipalia	9343900009	Marwadi University
3	Mrs. Jasmin James	9227134379	G H Patel College Of Engineering & Technology
4	Dr. Manan Desai	9824024881	G H Patel College Of Engineering & Technology
5	Mr. Jigneshkumar Shantilal Patel	9879990205	G H Patel College Of Engineering & Technology
6	Dr. Ashesh Mukeshbhai Shah	9924100910	Government Engineering College, Bharuch
7	Mr. Vaishal Jitendra Banker	8866518560	A D Patel Institute Of Technology
8	Mr. Makwana Purvin Manharkumar	9898235099	Sigma University
9	Dr. Samarth J. Shelat	9725735830	A.D.Patel Institute Of Technology
10	Mr. Priyal Ramanbhai Patel	9824925568	Sardar Vallabhbhai Patel Institute Of Technology, Vasad
11	Mr. Dilip Vaktaji Dhanak	7016559232	Government Polytechnic Ambawadi Ahmedabad
12	Mr. Vaibhav Bhatt	9824994440	Parul Institute Of Technology
13	Mr. Omkamal Girishkumar Vashi	9824157972	Parul Institute Of Technology
14	Mr. Ruchir Desai	8866239112	A D Patel Institute Of Technology
15	Mr. Bhaumikkumar Kaushikbhai Amin	9879008344	Ipcowala Institute Of Engineering & Technology, Dharmaj
16	Mr. Kuldeep Patel	8128083309	A D Patel Institute Of Technology
17	Mr. Simit Prajapati	9898408940	A D Patel Institute Of Technology
18	Mr. Tejas Prajapati	8866820375	A.D.Patel Institute Of Technology
19	Dr. Akashbhai Ashokbhai Dave	9586899880	Sardar Patel College Of Engineering And Technology
20	Dr. Nimit Patel	9558618236	A.D.Patel Institute Of Technology
21	Dr. Ronakkumar Shah	9429348124	The Cvm University
22	Mr. Thakkar Sujalkumar Jyantibhai	9099057123	Hasmukh Goswami College Of Engineering, Vahelal
23	Mr. Samkit Shah	9879327236	Parul Institute Of Technology
24	Dr. Vyomesh R Buch	9427450020	Parul Institute Of Technology
25	Mrs. Ami Sachin Shah	9727758635	Parul Institute Of Engineering Technology

26	Mr. Patel Mitkumar Narendrabhai	9265766537	K J Institute Of Engineering And Technology, Vadodara
27	Mr. Satyavrat Pankajbhai Patel	9662546805	A.D.Patel Institute Of Technology
28	Mr. Shaileshkumar Harishbhai Rathod	9879256517	Neotech Faculty Of Diploma Engineering
29	Mr. Hiralkumar Chandulal Badrakia	9725880383	Bhailalbhai And Bhikhabhai Institute Of Technology, Vallabh Vidyanagar
30	Mr. Kankesh Khimjibhai Dave	8849872113	Birla Vishvakarma Mahavidyalaya
31	Mr. Jeenen Mohanbhai Patel	9712194648	G.H.Patel College Of Engineering And Technology,V.V.Nagar
32	Mr. Rutvik Nirenkumar Parikh	8758136637	G H Patel College Of Engineering & Technology
33	Mr. Shah Mehul Ajaykumar	9574648444	Krishna School Of Emerging Technology & Applied Research (Kset)
34	Mr. Paresh Ravindra Modha	9998567827	A D Patel Institute Of Technology
35	Dr. Aditya Bais	8238882734	-----
36	Mr. Vishalkumar Sureshkumar Sheth	9909020693	The Charutar Vidhya Mandal (Cvm) University
37	Mr. Tejaskumar A Prajapati	9624713859	K.J.Institute Of Engineering & Technology, Savli
38	Mr. Rajendra Shah	9328863609	Charge Zone
39	Mr. Faijubhai Rasulbhai Malek	9428435202	G H Patel College Of Engineering And Technology
40	Mr. Pathik Prafulbhai Patel	9904531785	G H Patel College Of Engineering And Technology
41	Mr. Keyurkumar Jayantilal Patel	9724110909	A D Patel Institute Of Technology
42	Dr. Ayanesh Joshi	9925012591	The Cvm University
43	Mr. Keval Hematkumar Raval	9429292156	Parul Institute Of Technology
44	Dr. Manisha V Makwana	9904237847	A D Patel Institute Of Technology
45	Mr. Priyank B Machhi	9662632317	Birla Vishvakarma Mahavidyalaya
46	Mr. Joshi Harsh Bharatkumar	9898934896	A D Patel Institute Of Technology
47	Mr. Hitesh J Soni	9924177967	B & B Institute Of Technology
48	Dr. Nikunj R Mashru	9978584907	Marwadi University
49	Dr. Pinank Anilbhai Patel	9913525845	Marwadi University
50	Mr. Krunal Jayantkumar Shah	9909634833	A D Patel Institute Of Technology
51	Mr. Jvalant Bharatkumar Trivedi	8469836321	G.H.Patel College of Engineering And Technology

Photographs of Workshop

Date: 28/11/2025: Inauguration



Date: 28/11/2025: Technical Sessions



Day 1: Session 1



Day 1: Session 2



Day 1: Session 3



Day 1: Session 4

Date: 29/11/2025: Technical Sessions



Day 2: Session 5



Anand, Gujarat, India
 Hw2f+mg Bvm Mech Workshop, Mota Bazaar,
 Vallabh Vidyanagar, Anand, Gujarat 388120, India
 Lat 22.552936° Long 72.924348°
 Saturday, 29/11/2025 12:35 PM GMT +05:30

Day 2: Session 6



Anand, Gujarat, India
 Adit Basketball Court, Gwc9 P56, New Vallabh Vidyanagar,
 Tv Nagar, Gidc, Anand, Gujarat 388345, India
 Lat 22.52174° Long 72.917324°
 Saturday, 29/11/2025 02:20 PM GMT +05:30

Day 2: Session 7



Anand, Gujarat, India
 Adit Basketball Court, Gwc9 P56, New Vallabh Vidyanagar,
 Tv Nagar, Gidc, Anand, Gujarat 388345, India
 Lat 22.521741° Long 72.917322°
 Saturday, 29/11/2025 03:54 PM GMT +05:30

Day 2: Session 8



Date: 29/11/2025: Valedictory & Feedback Sessions.



Anand, Gujarat, India 🇮🇳
Adit Basketball Court, Gwc9 P56, New Vallabh Vidyanagar,
Tv Nagar, Gidc, Anand, Gujarat 388345, India
Lat 22.521492° Long 72.917125°
Saturday, 29/11/2025 04:58 PM GMT +05:30



Anand, Gujarat, India 🇮🇳
Adit Basketball Court, Gwc9 P56, New Vallabh Vidyanagar,
Tv Nagar, Gidc, Anand, Gujarat 388345, India
Lat 22.521738° Long 72.917327°
Saturday, 29/11/2025 05:03 PM GMT +05:30

Valedictory



Feedback 1



Feedback 2



Valedictory Session

Press Article

The article related to AICTE-VAANI sponsored workshop was published in Gujarati News Paper in Gujarati language. The sample for the same are mentioned below.

એડીઆઈટી કોલેજમાં એઆઈસીટીઈ વાણી પ્રાયોજિત વર્કશોપ યોજાયો



આણંદ, તા.૩
સીવીએમ યુનિવર્સિટીની
ન્યુ વલ્લભ વિધાનગર સ્થિત
એડીઆઈટી એન્જિનિયરિંગ
કોલેજના ઓટોમોબાઈલ
એન્જિનિયરિંગ ડીપાર્ટમેન્ટ
દ્વારા એઆઈસીટીઈ વાણી
પ્રાયોજિત વર્કશોપનું
આયોજન કરવામાં આવ્યું હતું.
ઈવેન્ટ કોઓર્ડિનેટર ડો સંજય
પટેલ તથા કો કો-ઓર્ડિનેટર
પ્રોકેસર યજ્ઞેશ ગાંભવાના
જણાવ્યા મુજબ
ઓટોમોબાઈલ એન્જિનિયરિંગ
દ્વારા આયોજિત એક્સિલેરેટિંગ
સ્ટ્રેટેજીકલિટી: એક્સપ્લોરિંગ
ધ વર્લ્ડ ઓફ ઇલેક્ટ્રિક વ્હીકલ્સ
વિષય પર યોજાયેલ આ
વર્કશોપમાં ગુજરાત ભરમાંથી
લગભગ ૫૦ થી વધારે ફેકલ્ટી
મેમ્બર્સ એ ભાગ લીધો હતો.

નવા પડકાર

તા.4.12.25 5

Feedbacks (Samples) from Participants

The hands-on demonstrations and real-world examples made the learning experience highly engaging. The workshop successfully bridged the gap between theoretical knowledge and practical applications. - Prof. Paresh Modha

The workshop provided excellent insights into emerging EV technologies and sustainability practices. The expert sessions were informative and enhanced my understanding of the EV ecosystem. - Dr. Manisha Makwana

Overall, the program was well-organized and comprehensive. It offered valuable exposure to current industry trends, innovations, and future opportunities in the electric vehicle sector. - Dr. Nimit Patel

*****End of Report*****