



We Make the World Move

VAAHAN

Automobile Engineering
Newsletter



July - December 2025

Issue No.11

A D PATEL INSTITUTE OF TECHNOLOGY
THE CHARUTAR VIDYA MANDAL(CVM) UNIVERSITY
NEW V. V. NAGAR, ANAND, GUJARAT

FROM THE DESK OF PRINCIPAL



I congratulate the Automobile Engineering Department on the release of the 11th issue of its newsletter, "VAAHAN." The department at ADIT continues to create significant value for students, industry, and society through quality education and practical exposure. With well equipped laboratories and state-of-the-art facilities, students gain strong hands-on experience and actively participate in prestigious competitions such as SAE BAJA, SUPRA SAE, ATV, and ETWDC, achieving leading positions. I extend my best wishes to all faculty members and students for their continued success and future endeavors.

Dr. V. N. Singh
Principal

FROM THE DESK OF HEAD OF DEPARTMENT



After the successful release of the 10th issue, I am pleased to present the 11th issue of the Automobile Engineering Department Newsletter, "VAAHAN." This issue highlights the activities conducted during July 2025 to December 2025, along with the achievements of faculty members and students. I sincerely appreciate the efforts of the entire team in bringing out this newsletter. The Department of Automobile Engineering is committed to the overall development of students and gratefully acknowledges the support and facilities provided by the Principal, Dr. V. N. Singh, and The Charutar Vidya Mandal (CVM) University, Vallabh Vidyanagar. I hope this newsletter continues to serve as an effective platform for faculty and students to showcase their work in the future.

Dr. S. M Patel
Head, Automobile Engineering Department

MESSAGE FROM EDITORIAL BOARD



I take this opportunity to extend my heartfelt best wishes to all the graduating students for a bright and successful future. It is my privilege to sincerely thank my faculty colleagues for their dedicated efforts in structuring this newsletter. The newsletter showcases various events and activities, along with the achievements of our students and the academic accomplishments of our faculty members.

Prof. Satyavrat P. Patel,
Asst. Professor-AE

ABOUT CHARUTAR VIDYAMADAL & CVM UNIVERSITY

At present, Charutar Vidya Mandal operates under the chairmanship of Er. Bhikhubhai B. Patel. More than 60 Educational Institutes starting from nursery to higher education and a sophisticated Research Institutes along with over 30,000 students on the rolls. CVM University established in the year 2020 and is spread over 700 acres and comprises of more than 25 institutes.



Release of 10th issue of Automobile newsletter “VAAHAN” at ADIT

ABOUT INSTITUTE

A. D. Patel Institute of Technology is one of the pioneer institutes imparting technical education located at New Vallabh Vidyanagar in the state of Gujarat, India. Established in the year 2000 and managed by Charutar Vidya Mandal (CVM) and The Charutar Vidya Mandal (CVM) University. The institute is located in satellite township of New Vallabh Vidyanagar having green natural environment and beautiful landscape near educational hub of the state, Vallabh Vidyanagar and Milk city Anand. Institute offers B.Tech. courses in Automobile Engineering, Electronics and Communication Engineering, Computer Engineering, Information Technology, Electrical Engineering, Mechanical Engineering, Food Processing Technology, Civil Engineering, Computer Science and Design, Artificial Intelligence (AI) & Data Science and Dairy Technology. Institute also offers Diploma Engineering in Automobile, Food Technology, Computer, Information Technology, Renewable Energy and Consumer Electronics.

ABOUT AUTOMOBILE ENGINEERING DEPARTMENT

The department of Automobile Engineering was started in academic year 2003-2004. Department is having young and well qualified teaching faculties and well equipped laboratories. Department offers B. Tech in Automobile Engineering and also Diploma in Automobile Engineering.

OUR VISION:

Instill enduring values and excellence in learning fundamental knowledge of automobile engineering, in universally relevant context for industry and society.

OUR MISSION:

- Creating conducive environment for learning practical applications of latest technology through state-of-the-art laboratory facilities.
- Providing opportunities for interaction with industry experts, visits to automotive industry and automotive research organizations.
- Motivate and support students for participating in National level competition events for out of classroom practical learning for hands-on practice and development of a professional with ability to work in team and problem solving.

Program Outcomes [POs]

Engineering knowledge	Environment and sustainability
Problem analysis	Ethics
Design/development of solutions	Individual and team work
Conduct investigations of complex problems	Communication
Modern tool usage	Project management and finance
The engineer and society	Life-long learning

Program Educational Outcome [PEOs]

- Ability to adapt contemporary automotive technologies to cater the needs of industry and society.
- Ability to apply the knowledge gained from Modern designing tools for developing future automotive technological products.
- Capability to take up innovative projects and inculcate entrepreneurship thinking process.

DETAILS OF STAFF MEMBERS

Name of faculty	Designation	Qualification	Experience
Dr. Sanjay M. Patel	Asst. Professor & Head	Ph.D.	24 years
Dr. Nimit M Patel	Asst. Professor	Ph.D.	20 years
Prof. Nikunj S. Yagnik	Asst. Professor	M.E, Ph.D.(Pursuing)	16 years
Prof. Y. J. Gambhava	Asst. Professor	M.E, Ph.D.(Pursuing)	15 years
Dr. Samarth J Shelat	Asst. Professor	Ph.D.	15 years
Prof. Simit B Prajapati	Asst. Professor	M.E, Ph.D.(Pursuing)	14 years
Prof. Satyavrat P Patel	Asst. Professor	M.Tech, Ph.D (Pursuing)	14 years
Prof. Kuldip D Patel	Ass. Professor	M.Tech, Ph.D (Pursuing)	15 years

Details of Research Activities

Dr. Sanjay Maganlal Patel ,Dr. Samarth Jayeshbhai Shelat and Dr. Nimit M. Patel, published a research paper on the topic of “Life Cycle Assessment Of Electric Vehicles: A Comparative” in International Journal of Environmental Sciences, ISSN No. 2229-7359, vol. 11, issue (24s), Page No. 784-793, sept-25.

Prof. Simit Prajapati, published a research paper on the topic of “Mass Transfer Behavior of Jamun (Indian Blackberry) Slices Using Convective Drying Technique” in Journal of Biosystems Engineering, ISSN No. 2234-1862,vol. 50, page No. 353-363, Aug -25.

Prof. Kuldip Patel, published a research paper on the topic of “Analysis of HC and CO pollutants in relation to the physical properties of noble metal catalysts under varying engine conditions” in Journal of Mines, Metals and Fuels, ISSN No. 0022-2755, Page No. 73, Issue.(10), Page No. 3171-3178, Oct-25.

Prof. Simit Prajapati, Assistant Professor, Automobile Engineering Department, has successfully presented research paper under the guidance of Dr. Mitesh Shah, Professor, ADIT and Dr. Shivamurti Srivastava, Professor, AAU at 12th International and 52nd National Conference on Fluid Mechanics and Fluid Power (FMFP) 2025, organized by Nirma University during 19th to 21st December' 2025



Workshop organized by Department

The Automobile Engineering Department of A.D. Patel Institute of Technology (ADIT), CVM University, successfully organized an AICTE-VAANI Sponsored Two-Day Workshop on "Accelerating Sustainability: Exploring the World of Electric Vehicles" on 28th & 29th November 2025 at ADIT.



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



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

Industrial / Technical Visits

Sr.No	Name of Industry/ Company	Date of Visit	No of Students/ Level	Name of Faculty/ Staff Members
1	AMMANN India Pvt. Ltd, Mehsana	02-09-25	28/4 th B. Tech & 3 rd Diploma	Prof. Simit Prajapati & Prof. Satyavrat Patel
2	Ford India- Engine Plant	11-09-25	30/3 rd & 4 th B. Tech & 3 rd Diploma	Mr. Minesh Amin Dr. Samarth Shelat Prof. Yagnesh Gambhava Prof. Satyavrat Patel
3	Faculty of Vehicle Technology(EME), Vadodara	16-09-25	22/3 rd B. Tech & 2 nd Diploma	Prof. Simit Prajapati & Prof. Yagnesh Gambhava
4	Raicam Automotive Pvt Ltd, Charodi, Gujarat	18-09-25	37/3 rd & 4 th B. Tech & 3 rd Diploma	Prof. Simit Prajapati & Prof. Yagnesh Gambhava



**Faculty of Vehicle Technology (EME),
Vadodara**



**Raicam Automotive Pvt Ltd, Charodi,
Gujarat**



AMMANN India Pvt. Ltd, Mehsana

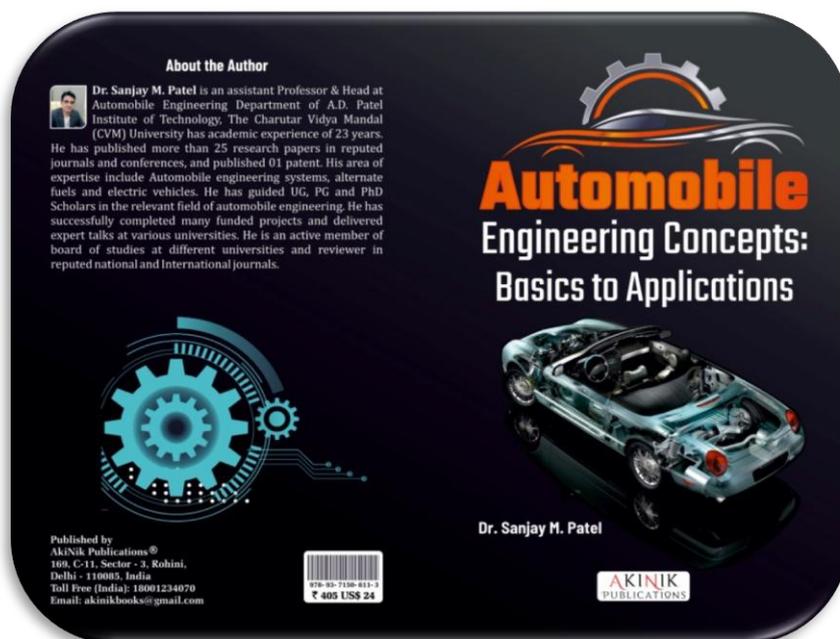
Book Release: Automobile Engineering Concepts – Basics to Applications

The Automobile Engineering Department of A.D. Patel Institute of Technology (ADIT), Charutar Vidya Mandal (CVM) University, proudly announces the release of an academic book titled “Automobile Engineering Concepts: Basics to Applications” in Dec’2025.

The book is edited by Dr. Sanjay M. Patel, Head, Automobile Engineering Department, ADIT, and authored by Dr. Sanjay M. Patel, Dr. Nimit Patel, Dr. Samarth J. Shelat, Simit Prajapati, Yagnesh Gambhava, and Satyavrat Patel, faculty members of the Automobile Engineering Department, ADIT.

Published by AkiNik Publications, the book carries ISBN: 9789371506113 and DOI: <https://doi.org/10.22271/ed.book.3429>.

The release ceremony was graced by Dr. Vishal N. Singh, Principal, ADIT, in the presence of Heads of Departments and faculty members of the Automobile Engineering Department on 3rd January 2026.



Knowledge Sharing Session by Faculty Expert

Dr. Sanjay Patel, Head of the Automobile Engineering Department at A.D. Patel Institute of Technology (ADIT), CVM University, delivered an expert talk in virtual mode on “Electric Vehicle: India’s Future Perspective” for the students of Christ University, Bangalore, on 19th September 2025. The session provided valuable insights into the current status and future roadmap of electric mobility in India, covering key aspects such as technological advancements, policy initiatives, and industry challenges. The talk was highly informative and interactive, helping students gain a deeper understanding of emerging opportunities in the electric vehicle sector and inspiring them to explore careers and research in sustainable transportation.

The poster features the Christ University logo on the top left. The main title is "Drive Clean, Go Electric" in large, bold letters. Below the title, it says "Talk on ELECTRIC VEHICLE: INDIA FUTURE PERSPECTIVE". A photo of Dr. Sanjay Patel is shown. The speaker's name and title are listed: "SPEAKER: Dr. Sanjay Patel, Head, Automobile Engineering, A.D. Patel Institute of Technology, The Charutar Vidya Mandal (CVM) University". The date and time are "19-09-2025" and "11:00 AM". The URL is "https://meet.google.com/sax-fnvy-uur". On the right, there is a graphic of an electric car with a charging station and a green box listing "Electric Car", "Fast", "Modern", and "Efficient". A "GREEN SURVIVE" logo is in the top right corner.

The screenshot shows a mobile app interface. At the top, it says "Head Automobile Engg. is presenting". Below that is a slide with the ADIT and CVM logos, the title "Electric Vehicle: India Future Perspective", and the speaker's details: "Dr. Sanjay M. Patel, Head of the Department, Automobile Engineering, A.D. Patel Institute of Technology, The Charutar Vidya Mandal (CVM) University, New V.V. Nagar, Gujarat". The date "19th September, 2025" is at the bottom right. Below the slide are icons for chat, video, and a gallery of photos.

The screenshot shows a Google Meet video call. Two participants are visible: a woman on the left and a man on the right. The man is identified as "Head Automobile Engg." and the woman as "RESHMI BASAK MECHANICAL AND AUTOMOBILE ENGINEERING". The meeting ID is "sax-fnvy-uur" and the time is "11:51 AM". The bottom of the screen shows the Windows taskbar with various application icons.

Placement Updates



Aditya Thanki (4th year B.tech)
Cryogas Equipment
Pvt. Ltd, Vadodara
Date of Joining: 15/12/2025



Solanki Badal (4th year B.tech)
Cryogas Equipment
Pvt. Ltd, Vadodara
Date of Joining: 15/12/2025



Mehul Parmar (3rd year Diploma)
National Dairy Development
Board, Anand
Date of Joining: 22/12/2025

Alumni Homecoming



Launch of ETWDC 2025 Electric Scooter Fabrication

Team Adway 2.0 from the Department of Automobile Engineering, A.D. Patel Institute of Technology (ADIT), CVM University, marked the commencement of fabrication for their Electric Scooter project with a traditional Tilak Pooja of components and materials on the auspicious occasion of Navratri, 29th September 2025. The project is being developed for the SAEINDIA Southern Section–organized National Level Electric Two Wheeler Design Competition (ETWDC) 2025. This ceremonial beginning symbolized the team’s commitment to innovation, teamwork, and sustainable mobility solutions. Guided by Faculty Mentor Dr. Nimit Patel and Co-Mentor Prof. Yagnesh Gambhava, the enthusiastic team—led by Viral Modi (Captain) along with Urmik Patel, Shivam Patel, Dhruv Mistry, Nimit Jariwala, Manan Chauhan, Aditya Thanki, and Het Gandhi—embarked on an exciting journey toward shaping the future of electric mobility.



ALUMNI TESTIMONIAL



Dixit Patel
Hill Motors Ltd.
United Kingdom
Year of Passing: 2018

Studying Automobile Engineering at ADIT was a memorable and enriching experience. The blend of theory, laboratory experiments, industrial visits, and extracurricular activities helped me grow both professionally and personally. I am grateful to the department for preparing me to face real-world engineering challenges.



Mohil Patel
Whoops Wheel fix it
United Kingdom
Year of Passing: 2019

ADIT is one of the best colleges in Gujarat, providing strong theoretical and practical knowledge. I am thankful to all my professors for teaching me never to give up and to give 100% every day. Thank you for shaping my future and giving me knowledge, confidence, and unforgettable memories

Disclaimer: All information published in this newsletter is based on institutional events and report generated at A.D Patel Institute of Technology. The purpose of this newsletter is for academic and educational only. The editor or publisher does not take responsibility for the content presented during the events. Errors, if any, are purely unintentional and readers are requested to communicate such errors to authorities.

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