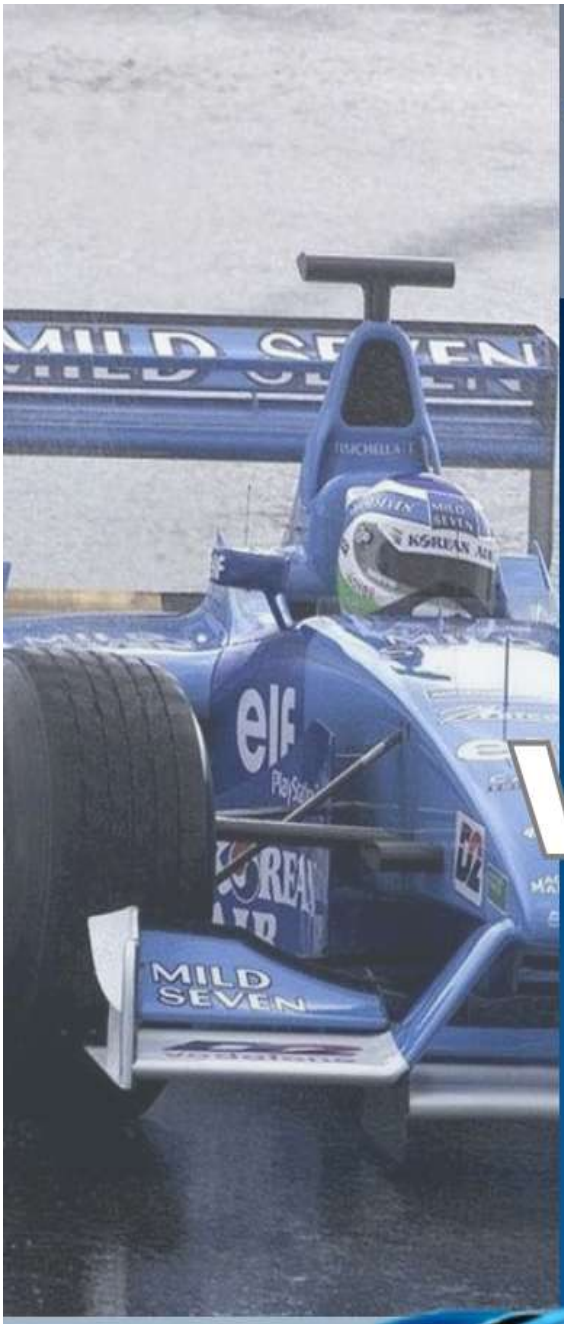


CVM UNIVERSITY

ADIT
A D PATEL INSTITUTE OF TECHNOLOGY



VAAHAN

Automobile Engineering Newsletter



January - June 2026

Issue No. 12

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

FROM THE DESK OF PRINCIPAL



I extend my heartfelt congratulations to the Automobile Engineering Department on the release of the 12th issue of **"VAAHAN."** The Department at A. D. Patel Institute of Technology (ADIT) continues to excel in quality education, innovation, and practical learning. With well-equipped laboratories and modern facilities, students gain valuable hands-on experience and achieve remarkable success in prestigious competitions such as SAE BAJA, SUPRA SAE, ATV, and ETWDC. I convey my best wishes to the faculty and students for their continued success and future achievements.

Dr. V. N. Singh
Principal

FROM THE DESK OF HEAD OF DEPARTMENT



Following the successful release of the 11th issue, I am delighted to present the 12th issue of the Automobile Engineering Department Newsletter, "VAAHAN." This edition showcases the department's major activities, events, accomplishments, and achievements of faculty members and students during the period from January 2026 to June 2026. It reflects our continued commitment to academic excellence, innovation, research, and holistic student development.

I sincerely appreciate the dedicated efforts of the editorial team, faculty members, and students whose valuable contributions made this publication possible. I also express my heartfelt gratitude to our Principal, Dr. V. N. Singh, and The Charutar Vidya Mandal (CVM) University, Vallabh Vidyanagar, for their constant encouragement, guidance, and unwavering support. I hope "VAAHAN" continues to serve as an inspiring platform for sharing achievements, knowledge, and departmental progress in the years to come.

Dr. S. M Patel
Head, Automobile Engineering Department

MESSAGE FROM EDITORIAL BOARD



I extend my heartfelt best wishes to all our graduating students for a bright and successful future. I sincerely appreciate the dedicated efforts of my faculty colleagues in bringing out this newsletter. This edition highlights the department's key events and activities, celebrates the achievements of our students, and showcases the academic and professional 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 11th 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 Specific Outcomes [PSOs]

- Learning through experiments conducted in various laboratories along with its evaluation and data interpretation.
- An ability to function on multidisciplinary squads, related to automobile engineering.
- An ability to connect efficiently with latest and modern-day technological developments by acquiring skills, expertise and modern engineering tools used in automobile engineering industries.

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.	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.	15 years

Details of Research Activities

Dr. Sanjay M. Patel , Presented a research paper on the topic of "Life A Pilot Investigation into the Impact of Algae-Derived Biodiesel on CI Engine Performance and Sustainability" Souvenir of International Conference on Synergetic Development through Smart Technologies, Sustainability and Digital Transformations (ICSSSD-2026), June-25-26, 2026.

Dr. Sanjay Patel, Dr. Samarth Shelat , Dr. Nimit Patel and Yagnesh Gambhava Presented a research paper on the topic of "Design and Structural Analysis of an Automotive Suspension Spring Using Finite Element Method" Souvenir of International Conference on Synergetic Development through Smart Technologies, Sustainability and Digital Transformations (ICSSSD-2026), June-25-26, 2026.

Satyavrat P Patel and Dr. Sanjay Patel Presented a research paper on the topic of "Electric Vehicle Battery Charging Technologies: An Indian Reality Check" Souvenir of International Conference on Synergetic Development through Smart Technologies, Sustainability and Digital Transformations (ICSSSD-2026), June-25-26, 2026.

Dr. Simit Prajapati and Dr. Kuldip Patel Presented a research paper on the topic of "From Conventional to Advanced Radiators: A Comprehensive Thermo-Hydraulic Review for Automotive Applications " Souvenir of International Conference on Synergetic Development through Smart Technologies, Sustainability and Digital Transformations (ICSSSD-2026), June-25-26, 2026.

Dr. Nimit Patel Patel Presented a research paper on the topic of "Variation of Turbulent in Intake Manifold by Dimples for SI Engine" Souvenir of International Conference on Synergetic Development through Smart Technologies, Sustainability and Digital Transformations (ICSSSD-2026), June- 25-26, 2026.

Dr. Kuldip Patel,Dr. Samarth Shelat, Dr. Simit Prajapati, yagnesh Ganbhava and Satyavrat Patel Presented a research paper on the topic of "Intregated Development of SolGel Derived perovskite catalyst and Modified catalytic Converter Geometry for reduction in Automotive HC and CO Exhaust Emission " in 2nd International Conference on "Green Chemistry and Engineering towards Sustainable Development –An Industrial Perspective organized by Sardar Vallabhbhai National Institute of Technology, Surat during 17-18 April, 2026.

Workshop/Expert Lecture organized by Department

Sr. N0	Topic	Date
1	Hands-on Workshop on "Modern Maintenance Techniques In Automotive Service Station" by Mr. Ankur Patel, Proprietor, Shayona Automobile Service.	22-01-2026
2	An Expert Lecture on "National Startup Day@ ADIT: Inspiring Innovation & Enterprenuurship" by Dr. Monarch Shah, Propietor, Indian Food Consultants	30-01-2026









Industrial / Technical Visits

Sr.	Name of Industry/ Company	Date of Visit	No of Students/ Level	Name of Faculty/ Staff Members
1	Sardar Patel Renewal Energy Research Institute	26-02-2026	12/2nd Sem Diploma	Dr. Simit Prajapati & Dr. Samarth Shelat
2	Cryogas Industries, Waghodiya, Vadodara	19-03-26	Faculty	Dr. Simit Prajapati Prof. Samarth J Shelat Prof. Satyavrat Patel





Book Release: Fundamentals of Automobile Engineering

We are delighted to share a proud achievement of the Department of Automobile Engineering, A.D. Patel Institute of Technology (ADIT), CVM University.

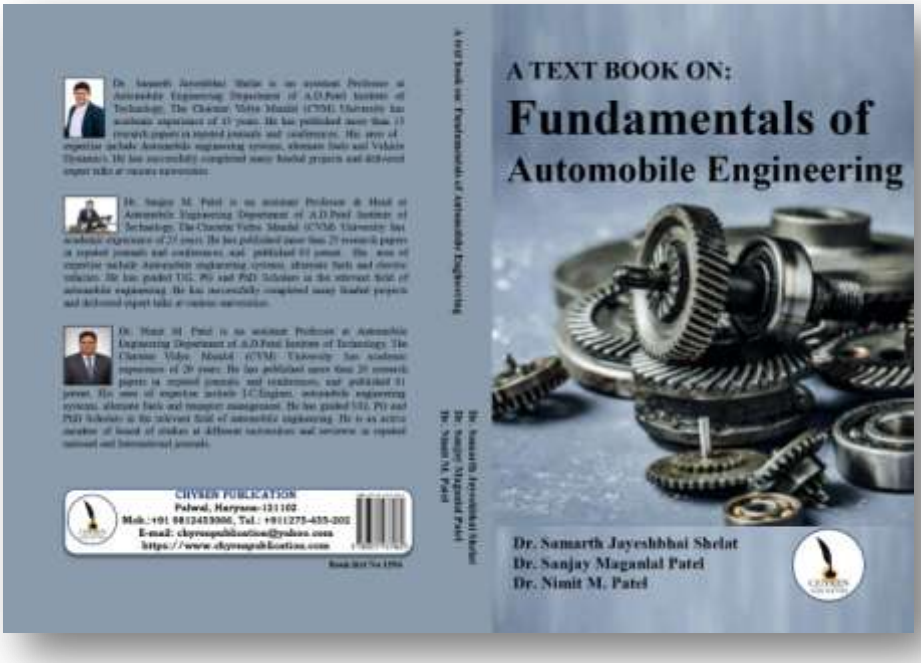
Our esteemed faculty members Dr. Sanjay Maganlal Patel, Dr. Nimit M. Patel and Dr. Samarth Jayeshbhai Shelat, have authored a textbook titled "Fundamentals of Automobile Engineering",

Published by CHYREN PUBLICATION, the book carries ISBN: 978-93-7143-746

The Book Unveiled by Prof. (Dr.) Indrajit Patel, Provost, The Charutar Vidya Mandal (CVM) University,Dr. Sandeep Walia, Registrar, The Charutar Vidya Mandal (CVM) University, Dr. Vishal Singh, Principal, A. D. Patel Institute of Technology, CVM University, in the presence of Head of the Department and faculty members of the Automobile Engineering Department on 9th February 2026.







Faculty Achievement: Doctorate (Ph.D) Earned in Automobile Engineering



Congratulations to Dr. Simit Bhikhalal Prajapati, Assistant Professor, Automobile Engineering, ADIT on successful completion of his PhD from Gujarat Technological University under supervision of Dr. Mitesh Shah, Professor, Mechanical Engineering, ADIT. His thesis, titled “Experimental Analysis, Mathematical Modelling and Drying Kinetics of Jamun (Indian Blackberry) Slices Using Convective Drying “, marks a significant contribution to the field of Engineering.



Delighted to congratulate Prof. Kuldip Patel on the successful completion of his Doctor of Philosophy (Ph.D.) at CHARUSAT University. His research, titled "Design and Development of Automotive Catalytic Converter using Non-Noble Metal Catalyst for the Reduction of Exhaust Emission," focuses on developing an innovative and cost-effective catalytic converter using non-noble metal catalysts to reduce harmful automotive exhaust emissions.

Faculty Achievement – Keynote Address at International Conference

Dr. Sanjay M. Patel, Head of the of Automobile Engineering Department, A. D. Patel Institute of Technology (ADIT), The Charutar Vidya Mandal (CVM) University, delivered a **Keynote Address at the International Conference** on Cryogenics and Mechanical Engineering Solutions (ICCryoME-26), organized by Research Fora, on **28 April 2026 in Manila, Philippines (Virtual Mode).**





Proud Achievement – Team Adway 2.0 Shines at National Level

The Automobile Engineering Department at A. D. Patel Institute of Technology (ADIT), The Charutar Vidya Mandal (CVM) University, is delighted to celebrate the remarkable achievement of **Team Adway 2.0** at the **All India Electric Two Wheeler Design Competition (ETWDC) 2026**, organized by **SAE India Southern Section** in Chennai on **7–8 March 2026**.

Competing with some of the finest engineering teams from across India, **Team Adway 2.0**, under the mentorship of Dr. Nimit Patel & Prof. Yagnesh Gambhava, secured the **2nd Rank** in the **Special Category – "Chairman's Award for Most Consistent Team in All Events."** This recognition is a reflection of the team's unwavering dedication, technical excellence, innovative thinking, and consistent performance throughout every stage of the competition.







Strengthening Industry Connect and Student Development

The Automobile Engineering Department continued to strengthen its industry and alumni engagement through the signing of a Memorandum of Understanding (MoU) with **Kalden Engimech Pvt. Ltd.**, represented by its Managing Director, **Mr. Sandip Dungrani**. The department also organized an **Alumni Meet** in Ahmadabad, providing a platform for alumni to interact with faculty and students and share valuable industry insights.

Students actively participated in the Science Carnival, showcasing their technical innovations, while placement readiness activities enhanced their employability through training in aptitude, communication, and interview skills.

Faculty members participated in a Faculty Development Program under the Vibrant Gujarat initiative, enriching their knowledge of emerging technologies and industry practices.











ALUMNI TESTIMONIAL



Mayur Jejariya
Jaguar Landrover
United Kingdom
Year of Graduating: 2010

My journey at the Automobile Engineering Department, ADIT, provided me with a strong technical foundation and the confidence to excel in the automotive industry. The dedicated faculty, practical learning, and industry-oriented curriculum helped me develop both professionally and personally. I am proud to be an alumnus of this Department



Kaushal Naik
Servall Automotive Pvt Ltd,
Bilimora
Year of Graduating: 2010

The faculty members were not only excellent teachers but also inspiring mentors. Their continuous guidance, encouragement, and commitment to student success motivated me to achieve my career goals. I will always cherish my time at the Automobile Engineering Department

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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