

We Make The World To Move

VAAHAN
Automobile Engineering
Newsletter

September 2024 - December 2024, Issue No. 09

A.D.Patel Institute of Technology
New V. V. Nagar, Gujarat

FROM THE DESK OF PRINCIPAL



I congratulate Automobile Engineering department for releasing 9th issue of their newsletter “VAAHAN”. Automobile engineering department, ADIT has been creating a great value for its students, industry and society at large. The members of ADIT automobile engineering fraternity are contributing to various national and multinational companies in auto sector passionately. The department has well – equipped laboratory with state of the art instrumentation where students are imparted practical and hands on experience. Students have been participating in mega events like SAEBAJA, SUPRASAE, ATV, ETWDC and winning lead positions. My best wishes to all the staff members & students for the future endeavors.

Dr. V. N. Singh
Principal

FROM THE DESK OF HEAD OF DEPARTMENT



After successfully releasing 8th issue of the newsletter, I am very happy to bring out the 9th issue of the Automobile Engineering Department Newsletter “VAAHAN”. This newsletter outlines various activities that have taken place during the period of Sep’24 - Dec’24 and the achievements of faculties and students. I appreciate all the team members for their efforts in bringing out his newsletter.

Department of Automobile Engineering is putting all kind of efforts to ensure the overall progress of the students. Department of Automobile Engineering is thankful to Principal, Dr. V N Singh and Charutar Vidya Mandal, Vallabh Vidyanagar for providing all kind of facilities and support as and when needed. I wish that this activity of publishing the Newsletter will continue in future and will work as a platform for faculty members and students to show their work.

Dr. S. M Patel
Head, Automobile Engineering Department

MESSAGE FROM EDITORIAL BOARD



I would like to take this opportunity to wish all the graduating students all the very best for their future endeavors. It’s my privilege to offer thanks to my faculty colleagues for their contribution for the structuring of newsletter. Newsletter highlights events, activities, student’s achievements and faculty’s academic achievements.

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

ABOUT CHARUTAR VIDYAMADAL & CVM UNIVERSITY

One of the greatest sons of India, Bharat Ratna, Late Shri Sardar Vallabhbhai Patel, inspired Shri Bhaikaka and Shri Bhikabhai Saheb for rural resurgence of post-independent India through education, and Charutar Vidya Mandal was born. Charutar Vidya Mandal was established in the year 1945 as a charitable trust with a prime objective of rural development through education to bring about the social awakening, social upliftment and enrichment. Over the subsequent years, Late Dr. H M Patel consolidated the efforts put in by the founders. Later on, in the 1990s, when Late Dr. C L Patel took over the reins of Charutar Vidya Mandal as the Chairman, the country was facing a major economic and ideological change paving the way for globalization and liberalization.

At present, Charutar Vidya Mandal operates under the chairmanship of Er. Bhikhubhai B. Patel. More than 50 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 20 institutes.



Release of 8th -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), one of the leading trust of the nation established in 1948. 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:

Instil 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.

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)	14 years
Prof. Samarth J Shelat	Asst. Professor	M.Tech, Ph.D. (Pursuing)	14 years
Prof. Simit B Prajapati	Asst. Professor	M.E, Ph.D.(Pursuing)	14 years
Prof. Satyavrat P Patel	Asst. Professor	M.Tech	12 years

Details of Research Activity

Dr. Sanjay M Patel and Prof. Samarth Shelat Published a research paper on “Performance Characteristics of a Compression Ignition (CI) Engine Using an Environmentally Friendly Waste Plastic Fuel”, Journal of Mines, Metals and Fuels, Vol. 72(9), ISSN 0022-2755, Page No. '923-936.

Prof. Nikunj Yagnik Published a research paper on “Design, Kinematic and Dynamic Modeling, Control and Path Tracking of 3 Wheels Mobile Robot Vehicle” International Journal of Mechanical Engineering, Vol. 11(9), ISSN 2348-8360, Page No. 65-71.

Prof. Simit B.Prajapati Published a research paper on “Experimental characterization and thin - layer convective drying modeling of Jamun (Indian Blackberry) slices” International Journal of Sadhana, Vol. 49(272), ISSN 0973-7677, Page No. 1-10.

Expert / Invited Talk Delivered by the Faculty

Dr. Sanjay M Patel participated as a panel member to discuss on EVs and sustainability at AMA, Ahmedabad, organized by KS Cheema Knowledge Foundation on 30-08-2024.



B.E 8th Semester Internship

8th semester students securing 16 weeks internship at various automotive Industries like Tata Motors, Captions Tractors, BSTO Automotive, Horizon Mahindra, Jaguar Land Rover and Maruti Suzuki are gaining invaluable hands-on experience in diverse aspects of the automotive sector. These internships represent a significant opportunity to apply academic knowledge to real-world challenges while preparing for careers in a competitive and dynamic industry.

Workshop/Expert Lecture organized by Department

Sr.	Topic	Date
1	Workshop on “Vehicle Development: Concept to Market” by Mr. Vrushen Pathak, Technical Program Manager, Google LLC, USA	16-09-24
2	Expert lecture on "Automotive Future scopes in Germany" by Mr Takshak Gandhi, Business Development Manager, Frenzelit GmbH, Germany.	24-10-24
3	Workshop on "Demonstration of I.C. Engine" in collaboration with ASDC by Mr. Rajiv Chobey, Eicher Motors Ltd.	27-10-24



Alumni Interaction with Pioneer Batch (2003-AE Batch)

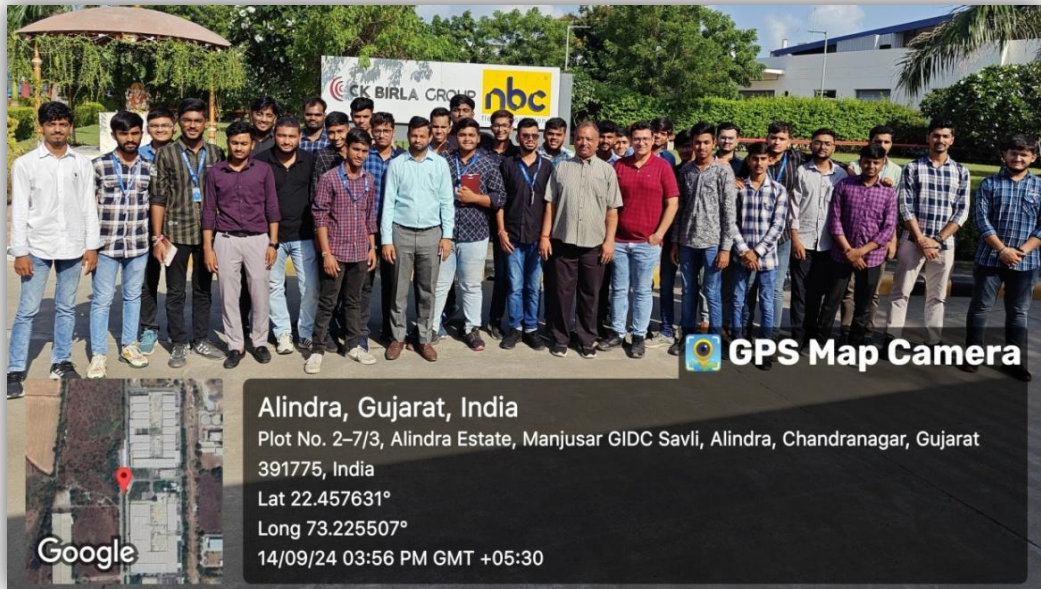


Industrial / Technical Visits

Sr.	Name of Industry/ Company	Date of Visit	No of Students/ Level	Name of Faculty/ Staff Members
1	GSRTC Central Workshop, Naroda, Ahmedabad	12-09-24	19/4 th B. Tech	Prof. Samarth J Shelat & Prof. Satyavrat Patel
2	Faculty of Vehicle Technology (EME) Vadodara	18-09-24	18/3 rd B. Tech & 2 nd Diploma	Prof. Simit Prajapati & Prof. Satyavrat Patel
3	National Engineering Industries (NBC Bearings)	14-09-24	33/3 rd B. Tech & 2 nd Diploma	Prof. Satyavrat Patel
4	BSTO Automotive Parts India Pvt. Ltd., Halol, Vadodara	08-10-24	30/2 nd & 3 rd B. Tech 2 nd Diploma	Prof. Samarth J Shelat & Prof. Satyavrat Patel



GSRTC Wokshop, Naroda, Ahmedabad



National Engineering Industries (NBC Bearings), Manjusar



Faculty of Vehicle Technology (EME), Vadodara



BSTO Automotive Pvt. Ltd, Halol

Department Activities

Organized workshop aims to bring together students, faculty, and industry professionals to explore cutting-edge advancements and trends in automobile engineering. Participants will gain insights into innovative technologies shaping the future of the automotive industry, including electric vehicles, autonomous driving, and sustainable design. Also, the aim is to encouraging innovative thinking for solving real-world automotive challenges.

The poster features logos for ADIT, SSIP, INSTITUTION'S INNOVATION COUNCIL, adit, Google Developer Student Clubs, CEELab, and CVM. The main text reads: "Workshop On Industrial Workshop on Demonstration of IC Engine (Eicher Motors Limited)". It specifies the date as "Sept 2024" at "11:00 am" at the "Venue: AICTE IDEA LAB, ADIT". The speaker is "Rajiv Chobey, Eicher Motors Limited". The workshop is organized by the "Department of Automobile Engineering, A. D. Patel Institute of Technology, CVM University". It also mentions "NATIONAL EDUCATION POLICY (NEP)" with the themes "INNOVATE", "INTEGRATE", and "INCLUDE FOR EXCELLENCE". Logos for ASDC, Skill India, and NCVET are also present.



SUPRA SAE INDIA 2024: Student Competition

Team Anashva of Automobile Engineering, ADIT, successfully participated in the national-level competition SUPRA SAE INDIA 2024 under the mentorship of Dr. N.M. Patel, Asst. Prof, Automobile Dept, and Mr. Y. J. Gambhava, Asst. Prof, Automobile Engg. at the Buddha International Circuit, Greater Noida, from 2nd oct, 2024, to 5th Oct, 2024, and got 11th All India Rank, which was unveiled by Er. Shree Bhikhubhai Patel, chairman, CVMU, Dr. Sandeep Walia, Registrar, CVMU, Dr. V.N. Singh, Principal, ADIT & Dr. S.M Patel, Head of Automobile Dept.



OUR DISTINGUISHED ALUMNI



Mayur Jejariya

JAGUAR LANDROVER
U.K



Jayesh Patel

TIRTH AGRO TECH.
(SHAKTIMAN), RAJKOT



Devarsh Purohit

SATYAM AUTO
COMPONENT, HALOL



Kaushal Naik

SERVALL AUTOMOTIVE PVT
LTD, BILIMORA



Amit Vasoya

GOVERNMENT ITI
JUNAGADH



Pratik Vanarasi

MOTHERSON SUMI
WIRING INDIA , A'BAD



Varun Sharma

ALSTOM INDIA
BANGLORE



Takshak Gandhi

FRENZELIT GMBH
GERMANY



Kashyap Borisagar

TESLA GIGAFACTORY
GERMANY



Kartik Dave

HEALTH PARTNERS
USA



Dhaval Kabaria

SEVEN TRANSMISSION
RAJKOT



Ridham Donda

GOVERNMENT ITI
AHMEDABAD



Jigar Gopani

LIGHTING FIELD
GERMANY



Amartya Amin

DHARTI AUTO
NADIAD



Rajan Jamadar

SWAP AUTOMOTIVE
AHMEDABAD



Himanshu Patel

FORD MOTORS
AUSTRALIA

"A dream without ambition
is like a car without gas,
you're not going anywhere."

"If everything seems under control,
you're just not going fast enough."



Mario Andretti

ALUMNI TESTIMONIAL



Dharamdev Vyas
Lead Engineer
John Deere India Pvt. Ltd
Year of Passing: 2015

In this journey to success, on the path of knowledge, ADIT has fuelled my grit and passion to always accelerate and lead the race in fulfilling my engineering dreams. ADIT has been the first milestone of many more achieved. In the most capable hands at the department, this has nurtured me. Students will always find their path enlightened.



Evaan Baxi
Research Engineer
ARAI - Pune
Year of Passing: 2024

My journey during the Bachelors program in Automobile Engineering was profoundly transformative. The diverse experiences, intellectual challenges, and invaluable learning opportunities significantly refined my perspective and fortified my preparedness for shaping my personality and improvise my skills. The enduring connections and indelible memories forged during this period remain deeply cherished.

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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