

KULDIP PATEL

Assistant Professor
Automobile Engineering



CONTACT

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EDUCATION

Pursue: Ph.D. from CHARUSAT University, Gujarat-India (**Automotive Exhaust System**)

Gujarat Technological University, Gujarat, India
(**Master of Engineering-Machine Design**)

North Maharashtra University- Maharashtra, India (**Bachelor of Engineering- Automobile**)

Technical Education Board, Bangalore
Diploma in Automobile Engineering

RELEVANT SKILLS

- Research
- Project requirement analyst
- Lecture Delivery
- Hands-on project event expertise
- CNC wood cutter machinist
- Engine test rig operator
- Noise and Vibration Measurement
- You tuber (Preparing automotive videos)

CERTIFICATIONS

- Bosch: Diesel & Gasoline Engine Management
- AUTO-DESK FUSION 360
- Design of Engines for Emission Compliances

An experienced professional from the teaching profession. Experienced in teaching the students, stake holder collaboration and education enhancement. Skilled in handling various technological as well as student upgradation related activities. Passionate for learning and teaching for automotive upgradation & revolution. Critical thinker with Analytical and research mind-set, team player with leadership skills and adaptive towards a variety of working cultures.

PROFESSIONAL EXPERIENCE

A. D. Patel Institute of Technology, Gujarat-India
Assistant Professor

July 2010 – Till Date

Responsibilities:

- Delivering a lecture on various automotive subjects such as Automotive Systems, Automobile Engines, Vehicle Dynamics, Vehicle Testing & Homologation, Noise Vibration and Harshness, Alternate Fuels and Hybrid Systems, Vehicle Crash Worthiness and Occupant Protection, Supply Chain Management, Manufacturing Processes, Machine Design, Automotive Components Design and Contributor Personality Development.
- Hands-on the automotive technical event organiser.
- Industry-Institute interaction for student's various skill development.
- Performed as a faculty mentor for SAEINDIA SUPRA (A race car fabrication event), held in 2010.
- Served as Participated as a Judge in dynamic event in BAJA SAEINDIA-2018 from 24th -28th Jan- 2018 at NATRIP, India
- Arranged industrial visits for the students at several automotive firms such as Automotive Research Association of India, NATRIP (National Automotive Testing and R&D Infrastructure Project), BOSCH India Pvt.Ltd., FIAT India, John-Deere, General Motors India, etc.
- Departmental SAEINDIA coordinator for membership and event organisation.
- AICTE sponsored Institute "IDEA LAB", Idea guru. (CNC wood cutter operating and guiding the students for skill development.)
- Faculty coordinator in Excellence centre for "E-Mobility" at the institute.
- Departmental library coordinator, Departmental Newsletter Editor-in chief and automotive laboratory in-charge.
- Prepared YouTube automotive videos on "**Car care Tips during summer, safe Driving Tips and Gujarat State Electric Vehicle Policy 2021**" (Links provided overleaf).

Professional Competence :(Achievements/Workshop/Sttp/Seminar)

- WARDS AUTO: Auto Tech-Detroit-2023, An international conference and networking program attended during 6-7th June,2023.
- Visited Ford's Rouge factory plant and Troy Design and Manufacturing at Detroit-MI.
- Evaluator for the Indian Ministry of Education's Innovation Cell initiated "TOYCATHO-2021" event.
- Participated in one day regional seminar on "XXI Century: Priorities in Technical and Higher Education" organized by Charutar Vidya Mandal in association with ISTE, Gujarat Section & Gujarat Technological University on 3rd August, 2011.
- Participated in one week STTP on "Manufacturing Process Modelling & Simulation" organized by Birla Vishvakarma Mahavidyalaya (Charutar Vidya Mandal) in associated with Design Tech, Pune from 6-10 January 2014.
- Attended one day national seminar on "Competency based Professional education: Theory to Practice" on 12th Mar. 2016 at IICP, New Vallabh Vidyanagar..
- Organized an expert talk on "Engine Performance and Engine Technology" from ARAI.
- Organized an expert talk on "Vehicle Testing and Homologation" by, Dy. Director from ARAI.
- Attended FDP on "Entrepreneurship" from 19/12/2016 to 31/12/2016.
- Organized and attended an Industrial training program on Bosch Diesel & Gasoline Engine Management, Vehicle Diagnosis & Vehicle Air-Conditioning system at BOSCH training centre, Bangalore.
- Attended one week FDP on "Recent Trends in Automobile Engineering" during February 4-9th, 2019 at ADIT.
- Attended one week STTP on "Design of Engines for Emission Compliances" during April 17-21, 2019 at IIT-Kanpur.
- Coordinated the visit of Automobile Engineering Department laboratories for WALMI institute, Anand on 5th October, 2019.
- Attended one week webinar series on "Motorsport Vehicle Teams" from 8-13th April 2020.
- Attended NPTEL organized "The joy of Teaching" on 19th April 2020.
- Attended an expert talk on "Vehicle exhaust Gas Treatment for BS-6" with BOSCH company executives organized by BOSCH INDIA PVT.LTD on 28th April 2020.
- Attended ATAL sponsored FDP on "Green Technology & Sustainability Engineering" from 21-25th September' 2020 at A D Patel Institute of Technology" organised by A.D. Patel Institute of technology.
- Organiser of GUJCOST sponsored STTP on "Automobile Engine, Emissions & Green Fuel Technology" from 12-17th October, 2020.
- Attended ATAL sponsored FDP on "Green Technology & Sustainability Engineering" from 26-30th October, 2020 at Sardar Vallabhbhai Patel National Institute of Technology.
- You tube video address: 1. <https://www.youtube.com/watch?v=0wglCC5z9d8>
2. https://www.youtube.com/watch?v=RCmmRUQo_co
3. <https://www.youtube.com/watch?v=x0xDXzHNYxM>

Publications:

- **“Synthesis of La_{0.8}Sr_{0.2}Co_{0.9}Fe_{0.1}O_{3-δ} perovskite oxide catalyst and the geometric modification of a catalytic converter for hydrocarbon and carbon monoxide emission reduction”**, in *Frontiers in Chemical Engineering*, Q2, IF-2.6.
- **“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*, IF-0.128, Q4.
- **“An Experimental Examination of Automotive Catalytic Converter for the Various Parameters of Exhaust Emission under the Research Engine Test Setup”**, in International conference at BITS Pilani, GOA campus
- **“Design and development of automotive catalytic converter using non-nobel catalyst for the reduction of exhaust emission: A review”**, in *Materials Today: Proceedings*, ELSEVEIR Publication.
- **“Effect of pervoskite catalyst on ceramic and metallic type catalytic converter for the reduction of automotive exhaust emission”** in the International Conference on Energy and Environment (ICEE 2021) organized by Jyothi Engineering College, Thrissur. Kerala, India.
- **“Homogeneous charge compression ignition in National Conference”** at Gulabrao Deokar College of Engineering, Jalgaon-Maharashtra.
- **“Low cost exhaust catalyst (LaCoO₃) for environmental application of automotive petrol engine catalytic converters”** in *A.D.I.T Journal* (ISSN:09733663) organized by A. D. Patel Institute of Technology.
- **“Preventing the Motorcycle from Starting if the Side stand is Not Retrieve”** in *International journal of Scientific research and Technology*.
- **“Catalytic Converter for Exhaust emission: A Review”** at Geeta institute of Technology, Kurukshetra, Haryana.
- **“Exhaust Reduction Systems for Future Automotive Engines”** at Saffrony institute of Technology.
- **“Homogeneous charge compression ignition in National Conference”** at Gulabrao Deokar College of Engineering, Jalgaon-MH.

Publications Reviewed:

- Reviewer in **Sigma Journal of Engineering and Natural Sciences, SCOPUS Indexed.**
- Reviewed a research article on **“Modelling an Electrically Turbocharged Engine and Predicting the Performance Under Steady State Engine”** from *The International journal of Automotive and mechanical Engineering*, ISSN:2229-8649, SCI: 2.27.
- Reviewed a research article on **“Prediction and Analysis of Diesesl Engine Combustion Noise using Transfer Function Method”** from *The International journal of Automotive Technology*, ISSN 1229–9138, IF: 1.245, Springer.
- Reviewed a research article on **“Understanding the Malaysian Road Crash Data: Current Dimension and Future Potential”** from *The International journal of Automotive and mechanical Engineering*, ISSN:2229-8649, SCI: 2.27.