



Dr Samarth Jayeshbhai Shelat

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AREAS OF EXPERTISE

Energy and Fuels

Mechanical/ Automobile Engineering

EDUCATION

Diploma Engineering (Automobile Engineering) 2006

Technical Examination Board, Gandhinagar, Gujarat

B.E. (Automobile Engineering) 2009

Kavayitri Bahinabai Chaudhari North Maharashtra University

M.Tech. (Heat Power & Thermal Engineering) 2011

Rajiv Gandhi Proudyogiki Vishwavidyalaya

Ph.D. (Automobile Engineering) 2025

The Charutar Vidya Mandal (CVM) University

PROFESSIONAL EXPERIENCE

Charutar Vidya Mandal University (CVM University) 2011 - Present

Assistant Professor

Anand

RESEARCH PROJECTS

Performance Evaluation of IC Engine Using Waste Plastic Fuel

Role: PhD Research Scholar

HONOURS AND AWARDS

Awarded Academic Excellence (Research Excellence) by Charutar Vidya Mandal (CVM) University on 25 September 2025, in recognition of valuable research contributions and dedication to academic excellence. 2025

Awarded by: The Charutar Vidya Mandal (CVM) University

Awarded “Best Poster in Automobile Engineering” by the Research & Development Cell, CVM University, for poster presentation during Research Week-2024, held from 8-11 January 2024. 2024

Awarded by: The Charutar Vidya Mandal (CVM) University

PROFESSIONAL MEMBERSHIPS

Indian Society For Technical Education (ISTE) 2016

Life Time Membership

International Association of Engineers (IAENG) 2013

Life Time Membership

PUBLICATIONS

1. An Experimental Investigation of CI Engine using Environmentally Friendly Waste Plastic Fuels and its Blends with Diesel and Nano Additive

Shelat S.J.;Patel S.M.

Journal of Mines Metals and Fuels , Vol. 73 (2025) , pp. 385-400

2. Life Cycle Assessment Of Electric Vehicles: A Comparative Study On Environmental Impact With Conventional Automobiles

Dr. Pareshkumar D. Patel, Dr. Sanjay Maganlal Patel ,Dr. Samarth Jayeshbhai Shelat, Dr. Nimit M. Patel , Dr. Vipul R. Bhatt*

International Journal of Environmental Sciences , Vol. 11 (2025) , pp. 784-793

3. ENVIRONMENTALLY FRIENDLY WASTE PLASTIC FUEL: AN ALTERNATIVE SOURCE OF ENERGY FOR AUTOMOTIVE VEHICLES

Shelat S.J.;Patel S.M.

Proceedings , Vol. (2024) , pp.

4. Performance Characteristics of a Compression Ignition (CI) Engine Using an Environmentally Friendly Waste Plastic Fuel

Shelat S.J.;Patel S.M.

Journal of Mines Metals and Fuels , Vol. 72 (2024) , pp. 923-936

5. A Review on Performance and Emission characteristics of IC Engine running on Waste Plastic Fuel

Shelat S.J.;Patel S.M.

6. Review: Study of Electric Vehicle Component, Technologies, Challenges and Impact on Future Directional Development

Dr. Nimit M. Patel, Dr. Sanjay M. Patel and Prof. Samarth J. Shelat
Alochana Chakra Journal , Vol. (2020) , pp. 4294-4307

7. Design, Fabrication, and Development of Hydraulic Sky Lifter For Two Wheelers

Samarth J. Shelat, Pavan Mistry, Ankit Tiwari, Divy Patel, Dharmik Patel
International Journal of Scientific Research and Reviews , Vol. (2019) , pp. 2462-2474

8. Performance & Analysis of Automotive Radiator - A Review

Samarth J Shelat, Nimit M Patel and Simit B Prajapati
National Conference on Recent Research & Development in Core Disciplines of Engineering , Vol. (2017) , pp.

9. A Review Study on Solar Vapour Absorption Refrigeration System using LiBr-H₂O as a working pair

Shah Parva C., Prajapati Simit B. and Shelat Samarth J
National Conference on Recent Research & Development in Core Disciplines of Engineering , Vol. (2017) , pp.

10. Selection of Parameters in Design and Analysis of Automotive Suspension System: A Review

Samarth J Shelat, Dr Sanjay M Patel
ADIT Journal of Engineering , Vol. 14 (2017) , pp. 49-53

11. Performance of Diesel Engine Using Measured Properties of Diesel and Jatropa Biodiesel - A Review

Samarth J. Shelat, Dr. Sanjay M. Patel
ADIT Journal of Engineering , Vol. 13 (2016) , pp.

12. Review of I. C. Engine Performance Using Measured Properties of Diesel and Biodiesel

Samarth J Shelat, Shashikumar Jain
national conference on Research and Innovation in Mechanical engineering at Technocrats institute of Technology & Science , Vol. (2014) , pp.

13. The effect of Electrochemical Parameters on Corrosion Behavior of Electroslag Strip cladded of weld overlays

Shailesh M Parmar, Samarth J Shelat
national conference on emerging vistas of technology in 21st century at Gujarat Technological University in association with Parul institute of Engineering and Technology , Vol. (2012) , pp.

14. Biodiesel as an Alternative fuel for Diesel Engine

Samarth J Shelat
national conference on Advances in Mechanical Engineering (NCAME-2011) , Vol. (2011) , pp.

15. Biodiesel from Jatropa Oil as an Alternative Fuel for Diesel Engine

Shelat Samarth J, Shashi Kumar Jain, Chaitanya Shrivastava
International conference on Fifth International Conference on Advances in Mechanical Engineering (ICAME-2011) at S.V. National Institute of Technology , Vol. (2011) , pp. 1168-1172

