



Dr. MANISHKUMAR KANTILAL MISTRY

Assistant Professor
Mechanical Engineering Department,
Government Engineering College, Valsad

E-mail : maa1333@gmail.com

Mobile: 9825655866

EDUCATION

| | |
|----------------------------------------------------------------------------------------------------------------------|---------------------|
| PhD in Mechanical Engineering Rai University, Ahmedabad | October 2018 |
| <i>Thesis title:</i> "An Experimental Investigation and Emission Analysis on I.C. Engine with Oxygen Feeding System" | |
| <i>Guide:</i> Professor (Dr.) Ratnesh K. Shukla | |
| M.E. in Mechanical Engineering (Automobile Engineering) Government Engineering College, Bhuj/GTU | 2012 |
| B.E. in Mechanical Engineering C. K. Pithawala College of Engineering and Technology, Surat/VNSGU | 2006 |

TEACHING EXPERIENCE

| | |
|---------------------------------------------------------------------------------------------|-----------------------------------------|
| Assistant Professor Government Engineering College, Valsad | 2016-present |
| Assistant Professor Shree Swami Atmanand Saraswati Institute of Technology, Surat | 2012-2016 |
| Lecturer Vidhyabharti Trust Polytechnic, Umrakh | 2008-2010 & Sep-Dec 2011 |

PROFESSIONAL EXPERIENCE

| | |
|---------------------------------------------------------------------------|---------------------------------------|
| Workshop Supervisor President Automobiles (Mahindra Authorized) | 2007-2008 (6 months) |
|---------------------------------------------------------------------------|---------------------------------------|

FIELDS OF RESEARCH INTEREST

Internal Combustion Engine: Alternate fuels, Fuel Supply System, Pollution Control, Engine Boosting, Combustion

Automobile Engineering: Electrical/ Hydrogen based Vehicle, Active Safety System, Transmission System

Vehicle Dynamics: Transmission System, Suspension System, Modeling of Vehicle System.

TECHNICAL SKILLS

- Mathematical Modeling: MatLab/SciLab
- Other: Diagnosis and treatment of the Engine & Car Problems.

PUBLICATIONS

Journal Papers

1. Mistry M., Rathod P. & Sorthiya A. (2012). Study and Development of Compressed Air Engine – Review. International Journal Advanced Engineering and Technology. Volume 3, Issue-1, pp. 271-274
2. Mistry M., Rathod P. & Sorthiya A. (2012). Study and Development of Compressed Air Engine - An Experiment Set up. International Journal Advanced Engineering Research and Studies. Volume 1, issue-3. pp 131-132.
3. Dudhat R., Patel N., Kanadiya V., Mistry M., Joshi K. (2013). The Investigational Study of Pragmatic Model of Compressed Air Single Cylinder Engine for Increases the Performance. International Journal Advanced Engineering and Technology. Volume 4 , Issue 3 , pp 46-49.
4. Buntariya R., Savalia D., Awasthi A., Patel S., Mistry M. (2014). Alternate Fuel from Plastic Waste. International Journal Advanced Engineering and Technology. Volume 5, Issue 3, pp 12-14
5. Mistry M., Jagodana D., Kathiriya J. (2014). Developing Quadra steering system for multipurpose of vehicle and give better comfort for driving. International Journal Advanced Engineering Research and Studies. Volume 3, issue 4, pp 03-06.
6. Mistry M, Rana H., Patel R.(2014). Experimental Investigation of Magnetic Suspension System. Journal Engineering Research and Studies. Volume 5, issue 2, pp 01-04.
7. Patel S., Sorthiya A., Mistry M. (2015). Performance analysis of hydrogen oxygen mixture with gasoline fuel in 4-stroke single cylinder SI engine - Review study. Volume 02, Issue 12, pp 2394-2444
8. Patel S., Sorthiya A., Mistry M. (2016). Performance and emission testing of hydrogen oxygen mixture with gasoline fuel in 4-stroke single cylinder SI engine for various compression ratio. International Journal of Engineering Development and Research. Volume 4, Issue 2, pp 810-815

Conference Papers

1. Mistry M. Modi M., Bhatt M. (2016). Parametric experimental analysis of Erosion wears on mild steel material – response surface methodology. RACEGS-2016 . Conference on Advances in Civil Engineering for Global Sustainability. SSASIT, Surat, GRD journals, pp-197-203

PATENTS

Mistry M. (Patent Published). “Oxygen ***** System with ***** system”, Indian Patent Office, Application No. - 2019*1*****3, date of filing - 05/0*/2019.

KEYNOTE LECTURE DELIVERED

- Expert Lecture on “Automobile System”, Vidhyadeep Institute of Engineering and

Technology, Anita, Kim, 02/04/2019

- Expert Lecture on “VLab”, Government Engineering College, Surat, 21/06/2019

WORKSHOP / TRAINING/ EVENT ORGANIZED

- STTP on “Creo with Design and Analyst” , Shree Swami Atmanand Sarawati Institute of Technology, Surat , 15-19th December 2015
- Workshop on “Open FOAM”, Shree Swami Atmanand Sarawati Institute of Technology, Surat
- Workshop on “Spoken Tutorial”, Shree Swami Atmanand Sarawati Institute of Technology, Surat
- Faculty Coordinator of “GTU TECHFEST(ZONAL)”, Shree Swami Atmanand Sarawati Institute of Technology, Surat, 26-27 Feb 2016
- Faculty Advisor of team GEC, Valsad “The Mechanics” of “National Kart Racing Championship-2017 Season-4”, National Kart Racing Championship, Bhopal

WORKSHOP / TRAINING ATTENDED

- Hands on Training of “Bosch Automobile System & Technology”, Bombay Diesels, Surat, 08-15 June 2013 (1 Week)
- “On Job Trainee”, Dhru Motors (Maruti Suzuki Authorised), Surat, 16-21, June 2014 (1 Week)
- Attended 3rd International Conference on “Novel Polymeric Materials in Pharmacy & Engineering”, Shree Dhanvantary College Campus, Kim, 12th March 2015
- STTP on “Gas Turbine Engine Components: Theory & Design”, SVNIT, Surat , 23-27 March 2015 (1 Week)
- STTP on “Emerging Trends in Major Thrust Areas of Mechanical Engineering”, online training organized by DTE, Gandhinagar, held at Government Engineering College, Valsad, 26 Feb to 9th March 2018 (1 Week)
- STTP- MOOC Training on “Computational Fluid Dynamics”, NPTEL, IIT Kharagpur, Jul-Oct 2018, 12 week course. (Equivalent to 2 week)
- STTP- MOOC Training on “IC Engines and Gas Turbines”, NPTEL, IIT Guwahati, Jan-Apr 2019, 12 week course. (Equivalent to 2 week)
- STTP on “Induction Phase-I”, NITTTR Regional Centre, Ahmedabad, 24th June- 05th July 2019. (2 Week)

PROFESSIONAL MEMBERSHIPS

- Life Member, Indian Society for a Technical Education

PORTFOLIOS

- M.E. Coordinator, GEC, Valsad, Energy Engineering **Jan-2019-present**
- M.E. Co-Coordinator, GEC, Valsad, Energy Engineering **2016-2018**
- Coordinator of C.O.E. Activities, GEC-Valsad **2016-Present**
- Center Coordinator & Departmental Coordinator of VLab Activities, GEC-Valsad **2017-Present**
- SSIP Fab-Lab Departmental Committee member, GEC, Valsad **2017-Present**
- Dean R & D of Institute, SSASIT, Surat **Jan-June 2016**

SUBJECT TAUGHT

- Internal Combustion Engine
- Automobile Engineering
- Vehicle Dynamics
- Combustion Engineering
- Batteries and Fuel Cells
- Kinematics of Machine

- Control Engineering
- Hydrogen Energy
- Alternate Fuel Energy
- Power Plant Engineering
- Dynamics of Machine
- Machine Design
- Engineering Graphics
- Elements of Mechanical Engineering