



---

## SHIRISH K PATEL

Assistant Professor  
Mechanical Engineering Department,  
Government Engineering College, Valsad  
E-mail: shirishmech197@gmail.com  
Mobile: 9427716989

---

### EDUCATION

---

<b>PhD in Mechanical Engineering</b> Gujarat Technical University <i>Project title: Experimental and Theoretical Performance Analysis of Square Pyramid Solar Still</i> Guide: Professor (Dr.) Kalpesh V Modi.	<b>Pursuing</b>
<b>M.E in CAD/CAM</b> L.D College of Engineering, Ahmedabad	<b>2007</b>
<b>BE in Mechanical Engineering</b> L.D College of Engineering, Ahmedabad	<b>2003</b>

### TEACHING EXPERIENCE

---

<b>Assistant Professor</b> Government Engineering College, Valsad	<b>2015-present</b>
<b>Assistant Professor</b> Government Engineering College, Godhra	<b>2011-2015</b>
<b>Lecturer</b> Babaria Institute of Technology, Baroda	<b>2007-2011</b>

### FIELDS OF RESEARCH INTEREST

---

*Computer Aided Design:* Expert CAD Systems, Knowledge based CAD Systems, CAD simulation.

*Solar Energy Utilization:* solar desalination, solar cooker, Solar collectors, solar heaters.

Design of mechanical components: Gate valve, Fire hydrant valve, Pressure Vessels, Gears.

### TECHNICAL SKILLS

---

- Programming languages: C, C ++,
- Computer Aided Design packages: AutoCAD, Creo, Catia, SolidWorks, Matlab
- Other: Latex, Windows OS

### KEYNOTE LECTURE DELIVERED

---

- Expert Lecture on “Store introduction”, GEC – Valsad, 16 December 2016
- Expert Lecture on “ACPC awareness”, SM SM High school-Dharmpur, DNP high school-Dharmpur, 21/01/2019

- Expert Lecture on “ACPC awareness”, Eklavya school –Malanpada Dharmpur, Swaminarayan high school, Malanpada-Dharmpur, 22/01/2019
- Expert Lecture on “Students Start-up Innovation Policy”, Seth R.J.J High school-Valsad, 1/2/2019

### **WORKSHOP / TRAINING ORGANIZED**

---

- Workshop on “Aerodynamic Modelling”, Government Engineering College, Valsad, 5-6 March 2019

### **WORKSHOP / TRAINING ATTENDED**

---

- STTP on “Induction Phase – I”, NITTTR, Extension Center Ahmedabad, 02-13 July 2012
- STTP on “Importance of CAD/CAM”, L.D.C.E, Ahmedabad, 18-22 November 2013
- Workshop on “KARMAYOGI TALIM”, Raj Chandra Ashram, Dharmpur, Valsad, 6-8 December 2013
- STTP on “Induction Phase – II”, NITTTR, Extension Center Ahmedabad, 3-14 February 2014
- STTP on “Resent Advances in Manufacturing (RAM-2015)”, SVNIT-Surat, 15-17 May 2015
- STTP on “Creo for Mechanical Engineering”, Government Engineering College, Valsad, 18-22 May 2015
- STTP on “Research Methodology: Tools and Techniques”, SVNIT- Surat, 15-19 June 2015
- STTP on “FDP for Design Engineering”, GTU Ahmedabad, Valsad, 7-10 September 2015
- STTP on “Essential for NX Designers”, GEC-Surat, 30<sup>th</sup> May to 04<sup>th</sup> June 2016
- STTP on “CATIA for Mechanical Engineering”, NITTTR, Extension Center Ahmedabad, 28<sup>th</sup> November to 2<sup>nd</sup> December 2016
- STTP on “FEM AND ANSYS”, NITTTR, Bhopal, 24 – 28 July 2017
- STTP on “Computational Methods for Mechanical Engineers using MATLAB”, LDCE, Ahmedabad, 11 - 15 March 2019

### **PROFESSIONAL MEMBERSHIPS**

Lifetime member of ISTE (Indian Society for Technical Education), ISTE No.: LM107374

### **PORTFOLIOS**

---

- |   |              |
|---|--------------|
| ▪ Central library In-charge                   | 2011-2013    |
| ▪ Institute Technical Festival coordinator    | 2013-2015    |
| ▪ Institute Culture committee co-coordinator  | 2014-2015    |
| ▪ Departmental Industrial visit coordinator   | 2015-2016    |
| ▪ Departmental Technical festival coordinator | 2016-2017    |
| ▪ Central store officer                       | 2017-present |

### **SUBJECT TAUGHT**

---

- |  |                         |
|--|-------------------------|
| ▪ Machine Design and Industrial Drafting | ▪ Operations Research   |
| ▪ Design of Machine Elements             | ▪ Engineering Graphics  |
| ▪ Machine Design                         | ▪ Kinematics of Machine |
| ▪ Computer Aided Design                  | ▪ Theory of Machine     |