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## HEMANTCHANDRA N PATEL

Assistant Professor  
Mechanical Engineering Department,  
Government Engineering College, Valsad

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### EDUCATION

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<b>PhD in Mechanical Engineering</b> Gujarat Technological University at Ahmedabad <i>Project title: "Investigation of Automobile Air-conditioning System based on Solar and Wind Energy"</i> <i>Guide: Prof (Dr.) Kalpesh V. Modi</i>	<b>Pursuing</b>
<b>MTech in CAD/CAM</b> Chandubhai S. Patel Institute of Technology, Changa.	<b>2012</b>
<b>BE in Mechanical Engineering</b> Government Engineering College, Dahod	<b>2010</b>

### TEACHING EXPERIENCE

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<b>Assistant Professor</b> Government Engineering College, Valsad	<b>2016-present</b>
<b>Assistant Professor</b> Government Engineering College, Dahod	<b>2013-2016</b>

### FIELDS OF RESEARCH INTEREST

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*Automobile Air-conditioning:* Renewable Energy based Cooling, Ventilation, air-conditioning, Climate control and Thermal comfort

*Computer Aided Design/ Computer Aided Manufacturing:* Expert CAD Systems, Knowledge based CAD Systems, CFD, CAD Simulation and MATLAB programming

*Solar Energy:* Photovoltaic Cell Performance

*Vertical Axis Wind Turbine:* Aerodynamics of Micro wind turbine

### TECHNICAL SKILLS

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- Programming languages: C, C ++, AutoLisp
- Computer Aided Design packages: AutoCAD, Creo, Catia, SolidWorks, MATLAB.
- FEM and CFD: Ansys, Fluent, CFX, Star CCM+
- Other: Windows OS

### PUBLICATIONS

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#### Journal Paper

Chaudhari, D.R., Patel, H.N., 2015. "Assessment of design methodology and three dimensional numerical (CFD) analysis of centrifugal blower." International Journal of Advanced Technology in Engineering and Science. Vol. 03, Issue 01, pp. 134-146.

## Conference Paper

Chaudhari, D.R., Patel, H.N., (2015). "Assessment of design methodology and three dimensional numerical (CFD) analysis of centrifugal blower." International conference on Recent Advances in Engineering Science and Management. PhD Chamber, New Delhi.

## WORKSHOP / TRAINING ORGANIZED

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- Workshop on "WATER ROCKET", Government Engineering College, Valsad, 6<sup>th</sup> March 2020
- One day workshop of "LaTeX" GTU, Ahmedabad, 01 September 2019.

## WORKSHOP / TRAINING ATTENDED

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- Training of "Comprehensive online intellectual property rights (IPR)" Online certificate course, i-Hub, 06 July - 14 September 2020.
- Training of "Nurturing Innovation and Startup Ecosystem (NISE)" Online training, i-Hub, 06 September - 14 October 2020.
- Training of "Induction Phase-II" NITTTR Extension Center Ahmedabad, Ahmedabad, 28-29 November 2019.
- Training of "Computational Methods for Mechanical Engineering using MATLAB" LDCE, Ahmadabad, 11-15 March 2019.
- Training of "Induction Phase-I" NITTTR, Bhopal, 20-31 March 2017.
- Training of "Karmayogi Residential Training for Quality Improvement Program in Technical Education", Shrimad Rajchandra Mission, Dharampur, 6-8 Dec 2013.
- Workshop on "Nanostructured Materials, Properties and Future Research Areas", CSPIT, CHARUSAT, 5-6 May 2011.
- Training course of "Mobile Repairing (Electronic, Assembling, Repairing and Trouble-shooting)" Tribal Sub Plan, D.I.C. Valsad, 26 Dec 2005 to 25 Feb 2006.

## Sports

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- As a member of Team Under 17-Football, Played up to State level in the event of "Subrato Mukharjee" **2003**

## PROFESSIONAL MEMBERSHIPS

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- Life Member, Indian Society for a Technical Education

## PORTFOLIOS

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- Member of, Central Cleanliness Committee, GEC, Valsad **2016- present**
- Co-ordinator, Department Cleanliness Committee, GEC, Valsad **2016- present**
- Co-ordinator, Online Fee Ccollection, GEC, Valsad **2017-present**
- Co-ordinator, Website Update, GEC, Valsad **2018- present**
- Member of, 100 point activity committee, GEC, Valsad **2017- 2018**
- Admin officer, GEC, Valsad **2017- 2018**
- Co-ordinator, Ansys software, GEC, Valsad **2020-present**
- I-Card Co-ordinator, GEC, Valsad **2020-present**

## SUBJECT TAUGHT

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- Engineering Graphics and Design
- Dynamics of Machine

- Elements of Mechanical Engineering
- Computer Aided Design
- Computer Aided Manufacturing
- Kinematics and Theory of Machine
- Manufacturing Processes
- Industrial Engineering
- Machine Design and Industrial Drafting
- Energy Analysis of Thermal Systems