



PRATIK J PATEL

Assistant Professor
Mechanical Engineering Department,
Government Engineering College, Valsad

E-mail: pratikpatel.gec@gmail.com

Mobile: 9998002590

EDUCATION

ME in Machine Design **2012**

Birla Vishvakarma Mahavidhyalaya, VV Nagar. (GTU)

BE in Mechanical Engineering **2009**

Government Engineering College, Valsad (VNSGU, Surat)

TEACHING EXPERIENCE

Assistant Professor **2020-present**

Government Engineering College, Valsad

Assistant Professor **2016-2020**

Government Engineering College, Dahod

Assistant Professor **2012-2016**

C G Patel Institute of Technology, Bardoli

PROFESSIONAL EXPERIENCE

Trainee Engineer

Production Department **2010**
NHB Bearings LTD, Amalsad, Navsari

FIELDS OF RESEARCH INTEREST

Machine Design: Designing machine components

Design of Experiments: Various optimization techniques

TECHNICAL SKILLS

- Computer Aided Design packages: AutoCAD, Creo, SolidWorks
- FEM and CFD: Ansys
- Other: Windows OS

RESEARCH PROJECTS

NIL

PUBLICATIONS

Journal Papers

- “Effect of various parameters on Spread in flashing operation of precision steel ball manufacturing process” in “International Conference on Advances in Manufacturing and Materials Engineering 2014”. Organized by National Institute of technology Karnataka, Surathkal. (Published in Procedia Materials Science 5 (2014) 2224 – 2232, Elsevier Ltd.)

- “A Fuzzy Logic Based Model to Predict MRR in Flashing Operation of Precision Steel Ball Manufacturing Process” in “International Conference on Advances in Manufacturing and Materials Engineering 2014”. Organized by National Institute of technology Karnataka, Surathkal. (Published in Procedia Materials Science 5 (2014) 1837 – 1845, Elsevier Ltd.)
- “Economical & Optimized Procedure of Process Pipe Sizing For Industries Based On Fluid Velocity” in International Journal of Innovative Knowledge Concepts, Vol. 6, Special Issue 2, 2018(152 – 159)

Conference Papers

- “Kinematics of V- Groove in Flashing Operation of Precision Steel Ball Manufacturing Process” in “National Conference on Advances in Engineering & Technology – NCAET -2012”. Organized by KIT & RC, Kalol.
- “Test rig development for vibration monitoring of rolling element bearing” in National conference on “Recent Advances in engineering for Sustainability” organized by C.G. Patel Institute of technology, Bardoli.
- “Effect of various parameters on Spread in flashing operation of precision steel ball manufacturing process” in “International Conference on Advances in Manufacturing and Materials Engineering 2014”. Organized by National Institute of technology Karnataka, Surathkal.
- “A Fuzzy Logic Based Model to Predict MRR in Flashing Operation of Precision Steel Ball Manufacturing Process” in “International Conference on Advances in Manufacturing and Materials Engineering 2014”. Organized by National Institute of technology Karnataka, Surathkal.

Books

NIL

PATENTS

NIL

KEYNOTE LECTURE DELIVERED

NIL

WORKSHOP / TRAINING ORGANIZED

- Workshop on “Draftathon- A Patent Drafting Marathon”, Government Engineering College, Dahod, 22 January 2019.
- Workshop on “Intellectual Property Rights (IPR)”, Government Engineering College, Dahod, 30 November 2018.

WORKSHOP / TRAINING ATTENDED

- Certificate Course on "NURTURING INNOVATION AND STARTUP ECOSYSTEM (NISE)" I hub Gujarat, 8 September 2020 - 23 October 2020.
- Certificate Course on “Comprehensive Online Intellectual Property Rights (IPR)”, I hub Gujarat, 6 July 2020- 14 September 2020.
- E Content development course “UDAYAM” KCG, Gujarat, 28 July 2020 – 18 August 2020.
- MOOC on “Accreditation for Undergraduate Engineering Programs”, NITTR, Bhopal, 27 January 2020- 20 April 2020.
- Workshop on “IPR – Technical Perspective”, Government Engineering College, Dahod, 15 February 2020.

- STTP on “Induction Programme Phase II”, NITTTTR, Bhopal, 16-27 September 2019
- STTP on “Emerging Trends in major trust areas of Mechanical Engineering”, DTE, Gandhinagar, 26 February 2018 – 9 March 2018.
- STTP on “Advances in Manufacturing & Automation”, Government Engineering College, Dahod, 1-5 January 2018.
- STTP on “Induction Programme Phase I”, NITTTTR, Bhopal, 29 May 2017 -9 June 2017

PROFESSIONAL MEMBERSHIPS

- Life Member, Indian Society of Technical Education (ISTE), New Delhi.
- Life Member, The Institution of Engineers (India).

HONORS AND AWARDS

- The award of Best Paper in Mechanical “National Conference on Advances in Engineering & Technology – NCAET -2012”. Organized by KIT & RC, Kalol. **2012**
- Late Dr. R. M. Dave merit prize of Birla Vishvakarma Mahavidhyalaya, V.V. Nagar, for obtaining highest C.P.I. in ME in Machine design **2012**

PORTFOLIOS

- Assistant Sports Officer, GEC, Valsad **2020-present**
- Member of Unnat Bharat Abhiyan, GEC, Valsad **2020-present**
- Member of ICT Cell, GEC, Valsad **2020-present**
- Member of Fit India Youth Club, GEC, Valsad **2020-present**

SUBJECT TAUGHT

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|------------------------------------|------------------------------------|
| ▪ Fundamentals of Machine Design | ▪ Operations Research |
| ▪ Basics of Industrial Engineering | ▪ Alternative Fuel & Energy |
| ▪ Engineering Graphics & design | ▪ Basics of Mechanical Engineering |
| ▪ Theory of Machines | ▪ Dynamics of machines |