

**Name:**

Prof. Gauri Satyajit Bedekar

**Designation:**

Assistant Professor

**Contact Details:**

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**Educational Qualifications:**

- PhD Pursuing (Mechanical Engineering), SPPU.
- M.Tech (Mechanical Design), Pune University, Pune, May 2019
- B.E. (Mechanical Engineering), Pune University, Pune, June 2016

**Experience:**

- Teaching: 3 Years 9 Months
- Research: 1 Year

**Research Interests:**

- Application of artificial intelligence in Impact Dynamics.
- Terminal Ballistics
- Composite Materials

**Number of Publications:**

International Conference: 04

**Number of Conferences / Seminars organized: 01**

**Number of FDPs / STTPs attended: 05**

**Number of Workshops attended: 01**

**Number of Conferences / Seminars attended: 01**

**Number of Online Certification Courses done: 03**

### **Details of Research papers published:**

- “Development of a Predictive Model for Calculating Damage Potential of Cylindrical Projectile on Bumper Plate at Hypervelocity using Artificial Intelligence”- International Conference on Digital Technology: Its Impact, Challenges and Opportunities, VPIMSR, Sangli, India
- “A Python Script Artificial Neural Network to predict lethal damage potential of cylindrical projectile on bumper plate at varied hyper velocity impact condition”- International conference on Education, Industry and Society, NIT, Warangal.
- “Methodology to Select Rod Parameters for Maximizing the Damage at Hypervelocity Impact”- 32<sup>nd</sup> International Symposium on Ballistics, Reno, USA.
- “Estimating Primary Fragment Characteristics during Hypervelocity Impact of Spherical Fragment on Thin Plate Using Artificial Neural Network”, 32<sup>nd</sup> International Symposium on Ballistics, Hyderabad, India
- **Details of FDPs / STTPs attended in last 5 years:**
  - “Computer Aided Engineering Analysis using Ansys”, 5 Days FDP organized by VIIT, July 2023.
  - “Recent Advances in Mechanical Engineering (RAME-23), 5 Days FDP organized by DYPIT, July 2023.
  - “Recent Advancement in Material, Micro-Manufacturing and Characterization (RAMMC-23)”, 5 Days FDP organized by DYPIT March 2023.
  - “Application of Computer Aided Engineering”, 3 Days FDP organized by KBTCOE, Dec. 2022
  - “Exploring the Research in Mechanical Engineering”, 5 Days FDP organized by DYPIT, Feb. 2022

### **Major Portfolios Handled: (college level and department level)**

- Faculty Coordinator of EDC Cell at DYPIT.
- Event Coordinator of the Department DYPIT.
- Time Table Coordinator of the Department DYPIT.
- Class Teacher of SE, DYPIT.
- Teacher Guardian/ Mentor for a batch of students, DYPIT.

### **Role in University Bodies....**

- Paper Setter for Fluid and Thermal Engineering at SPPU.
- Paper Evaluator for Fluid and Thermal Engineering at SPPU
- Paper Evaluator for Optimization Techniques at SPPU

### **Any other information which is not covered in above points:**

- Certified Innovation Ambassador of Ministry of Education, India and was mentoring The Orchid School, Baner as IIC representative.