

**Name:**

Mrs.Gauri Satyajit Bedekar

**Designation:**

Assistant Professor

**Contact Details:**

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**Educational Qualifications:**

- M.Tech. (Mechanical-Design), Savitribai Phule Pune University, Pune, September 2019.
- B.E. (Mechanical), Savitribai Phule Pune University, Pune, June 2016.

**Experience:**

- Teaching: 5.9 Years
- Research: 1 Year

**Research Interests:**

- Terminal Ballistics
- Composites
- Artificial Intelligence

**Number of Publications: 7**

International Conference: 7

**Recognition/ Awards:**

- Give bulleted list of recognitions / awards

**Number of FDPs / STTPs attended: 12**

**Number of workshops attended: 01**

**Number of Conferences / Seminars attended: 03**

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

**Details of Research papers published:**

1. 'Impact Analysis of Steel Projectiles on Composite Laminates: A Review', paper presented in International Conference on Recent Advances in Composite Materials-2024, Chinmaya Vishwavidyapeeth, Kerala.
2. 'Artificial Neural Network for Damage Prediction at Hypervelocity Impacts', a paper presented in 33rd International Symposium of Ballistics, Bruges, Belgium.
3. 'Development of a Predictive Model for Calculating Damage Potential of Cylindrical Projectile on Bumper Plate at Hypervelocity using Artificial Intelligence.', paper presented in International Conference on Digital Technology: Its impact, Challenges and Opportunities, VPIMSR, Sangli, India.
4. 'A Python Script Artificial Neural Network to predict lethal damage potential of cylindrical projectile on bumper plate at varied hyper velocity impact conditions', a paper presented in International Conference on Education, Industry and Society, NIT, Warangal, India.
5. 'Methodology to Select Rod Parameters for Maximizing Damage at Hypervelocity Impact', a paper presented in 32nd International Symposium of Ballistics, Reno, USA.
6. 'Estimating Primary Fragment Characteristics during Hypervelocity Impact of Spherical Fragment on Thin Plate Using Artificial Neural Network', a paper presented in 31th International Symposium of Ballistics, Hyderabad, India.
7. 'Artificial Intelligence: Overview and Applications, a paper presented in International conference VISHWACON 2018.

**Details of FDPs / STTPs attended in last 5 years:**

1. "Applications of Computer Aided Engineering", FDP organised by KBT COE, Pune on 19th to 21st December 2022.
2. "Computer Aided Engineering Analysis Using Ansys", FDP organised by VIIT, Pune on 17th to 21st July 2023.
3. "Exploring Quality Research and its Social Impact", One week STTP organised by DYPIT, Pimpri in 9th to 13th October 2023.
4. "Dassault Systemes SolidWorks 2024 & 3DEXPERIENCE Hands on Workshop on FEA / CFD / MBD (Kinematics) / Solid Modeling Assignments" FDP and Hands on

Workshop organised by PVGCOET & GKPIOM, Pune on 19th to 23rd January 2024.

5. "Sustainability and Sustainable Development Goal", FDP organised by SIEM, Nashik on 13th to 17th May 2024.
6. "Hands on Training on IPR ( Patents, Copyrights & Trademarks)", FDP organised by PVGCOET & GKPIOM, Pune on 10th to 14th June 2024.
7. "'Revolutionizing Vibration Analysis through Artificial Intelligence and Machine Learning Integration", FDP organised by DYPIT, Pimpri on 11th to 15th June 2024.
8. "Advanced Manufacturing Technologies", FDP organised by SIEM, Nashik on 13th to 17th May 2025.
9. "Research Methodology, Ethics and Publication tools", FDP organised by PVGCOETM, Pune on 16th to 20th June 2025.
10. "Emerging Trends in 3D printing and its Biomedical Applications" FDP organised by DYPIT, Pimpri on 16th to 20th June 2025.
11. "Fostering Innovation and Startup Culture in Academic Institutions", FDP organised by PVGCOETM, Pune on 28th July to 1st August 2025.
12. "Next-Gen Mechanical Systems: Leveraging AI/ML for Energy Efficiency and Sustainability" FDP organised by DYPIT, Pimpri, on 18th August to 22nd August 2025.
13. "Next-Gen AI: From Research to Real World Impact in Multi-Domain Applications" FDP organised by DYPIT, Pimpri conducted by Dr. Pranav Kharbanda, Studinex Services, on 30th August to 9th September 2025.
14. "Introduction to Composites", 12 Weeks course (FDP-AICTE Approved) from July 25- to October-25.

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

- Member of IIC Cell
- Event Coordinator
- Website Co-coordinator
- NPTEL Co-coordinator
- Student Development Coordinator
- Class teacher
- Mentor

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

- Paper Setter for Fluid and Thermal Engineering
- Examiner for Fluid and Thermal Engineering
- Examiner for Optimization Techniques

