

# PRIYANK M. SHAH

**PhD, M.Sc. GSET, MHSET, GATE**


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## ABOUT ME

Goal-oriented chemistry professional with strong work ethics and a commitment to high-quality results. Detail-oriented and proactive, with experience in research and data handling. Adaptable and efficient in managing multiple tasks while maintaining accuracy. Dedicated to continuous learning and contributing to innovation and organizational success.

I am Working as an Assistant Professor (11 Months Contractual Basis) since July 2024 in the Department of Chemistry, Saurashtra University, Rajkot

## EDUCATION

**PhD**

October -2026
Department of Chemistry, Saurashtra University, Rajkot

**GSET**

Chemical Sciences
2023

**MHSET**

Chemical Sciences
2023

**GATE**

Chemistry
2023

**M.Sc - 77%**

Inorganic Chemistry
Department of Chemistry, Saurashtra University, Rajkot
June - 2019 to March - 2021

**B.Sc - 69%**

Chemistry
H & H.B. Kotak Institute of Science, Rajkot
June - 2016 to March - 2019

## PHD THESIS TITLE

- Studies on Multi-step Synthesis of Biologically Active Heterocycles

## PATENTS

- DISUBSTITUTED PYRAZOLINE-THIAZOLE DERIVATIVES AS ANTICANCER AGENT
  Application No: 202621055941 A Publication Date: 03/07/2026

## PUBLICATION - RESEARCH ARTICLES

- Computational design and sonochemical synthesis of triazolo benzimidazole derivatives as an antimicrobial agent. Discov. Chem. 3, 261 (2026). https://doi.org/10.1007/s44371-026-00674-w
- Unveiling Synthesis, Characterization, and Assessing Antimicrobial Efficacy of Quinoxaline-Based Oxazole Derivatives. Russ J Bioorg Chem 50, 1573–1582 (2024). https://doi.org/10.1134/S1068162024040289
- Co-Engineered Ag/CuO Nanoparticles Via Artemisia pallens: Catalytic, Antibacterial, and Molecular Docking Perspectives. J Clust Sci 36, 198 (2025). https://doi.org/10.1007/s10876-025-02911-1
- A DFT Investigation of Halogen-Substituted Indeno[1,2-b]quinoxaline–Oxazole Derivatives: Insights into Electronic Structure and Reactivity. Russ J Org Chem 61, 1549–1558 (2025). https://doi.org/10.1134/S1070428025601888
- Synergistic Insights: Synthesis, Characterization, Biological Evaluation, and Molecular Docking Studies of TMS-N3 UGI–Adduct. Russ J Org Chem 60, 1277–1287 (2024). https://doi.org/10.1134/S1070428024070200
- ADME Profiling of Quinoxaline-Based Oxazole Derivatives for Drug-Likeness Assessment. rev. and adv. in chem. 15, 116–127 (2025). https://doi.org/10.1134/S2634827625600161
- Aucubin as a Natural Therapeutic and Optical Material: A Computational Study on Its Structural, Spectroscopic, and Photonic Properties. Int J Quantum Chem, 125: e70054. https://doi.org/10.1002/qua.70054

## CERTIFICATION OF INTERNATIONAL/ NATIONAL CONFERENCES/ SEMINAR/ WEBINAR

- National workshop on Research and Scholastic aspects of an educator under NEP-2020,organized by Hari Vandana College, Rajkot, Gujarat. 16th December 2023.
- Poster presentation at the 28th ISCBC international conference at Marwadi University, Rajkot.
- Poster presentation at the 29th ISCBC international conference at BKNMU, Junagadh
- National workshop on Advanced Instrument Techniques - 2023
- Poster presentation at the 1st IICB international conference at Samarpan Science College, Gandhinagar
- Poster presentation at the NCES-2023 National conference at Bahauddin Science College, Junagadh
- IEEE R10 HTC-2023 International Conference & Workshop on Advances in Molecular Medicine held from 16th to 18th October 2023 at Marwadi University, Rajkot, India
- Skill-Based Hands-on Training Workshop on Analytical Technologies (HPLC and NMR): Theory to Applications organized by NMR Facility, Department of Chemistry, PDEU on February 13th - 14th 2026
- Poster presentation at the national science symposium at the Government Science College, Gariyadhar
- Webinar on Generative Al (GenAl) in Scientific Writing and Scholarly Publishing and ScienceDirect for ONOS at ONOS on Tuesday, 09 September. 2025 by Elsevier.
- Poster presentation at the international symposium 'RASAYAN-23' at the Department of Chemistry, Saurashtra University, Rajkot, on 8th to 10th July, 2026

## ACHIEVEMENTS

- GSET-: Gujarat State Eligibility Test for Assistant Professor 2023 exam Qualified.
- MHSET-: Maharashtra State Eligibility Test for Assistant Professor 2023 Qualified.
- GATE-: Graduate Aptitude Test for Engineering 2026 Qualified
- Awarded by Gujarat government SHODH Fellowship

## EXPERTISE

- **Organic Synthesis & Characterization:** Extensive experience in multi-step organic synthesis, purification, and characterization of small molecules, intermediates, and final products using advanced analytical techniques such as NMR, Mass Spectrometry, LCMS, HRMS etc
- **Reaction Mechanisms & Optimization:** Proficient in designing, executing, optimizing and troubleshooting diverse organic reactions to achieve improved yield, selectivity and process efficiency
- **Nucleophilic Substitutions & Condensations:** SNAr reactions, reductive amination, aldol condensation
- **Functional Group Interconversion (FGI):** Esterification, hydrolysis, azide formation, halogenation, nitration
- **Purification Techniques:** Hands-on expertise in purification methods including crystallization, distillation, column chromatography.
- **Analytical & Problem-Solving Skills:** Strong ability to analyse complex reaction pathways, troubleshoot synthetic bottlenecks, and refine reaction conditions to improve yield, selectivity, and overall process efficiency
- **Analytical Instruments Handling:** Experienced in operating and maintaining analytical instruments such as an IR spectrometer and mass spectrometer.
- **Software Handling:** ChemDraw, M-Nova, Origin, irsolution, Gaussian, Schrodinger (Meastro, Glide), Zotero, Mendeley

## LANGUAGES

- English
- Hindi
- Gujarati

## PERSONAL DETAILS

- **DOB:** 01-04-1999
- **Marital Status:** Unmarried
- **Blood Group:** A+
- **Hobbies:** Music, Travelling, learning new things, and reading.

## DECLARATION

I do hereby declare that the details mentioned above are accurate to the best of my knowledge and confidence.

Thank You
-Priyank Shah