

# Curriculum Vitae

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## Dr. Mohini M. Gupte

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**Date of Birth:** 1st March 1980

**Category:** Open

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## Career Objective

Dedicated and experienced chemistry educator with over 18 years of teaching in undergraduate and postgraduate courses. Passionate about facilitating learning through interactive teaching, hands-on laboratory training, and mentoring students in research-based projects. Seeking opportunities to contribute to academic excellence and innovative pedagogy in higher education institutions.

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**Academic Qualifications:** Ph.D. Nuclear Chemistry, [M.Sc.](#) Physical Chemistry, [B.Sc.](#) Chemistry.

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## Areas of Specialization

- Nuclear & Radioanalytical Chemistry
  - Environmental Science
  - Analytical Chemistry
  - Physical Chemistry
  - Material Science
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## Research Experience and Publications

- **Former Chemist (Sr. Technical Officer equivalent) at Ground Water Surveys and Development Agency (GSDA), Govt. of Maharashtra.**
- Expertise in water quality parameter analysis.

- **Ph.D. Thesis:** "*Diffusion of Cr(III) and Fe(III) ions and their salts in agar gel medium*", under Prof. (Mrs.) N. S. Rajurkar.
  - **Total Publications:** 13 (International: 11, National: 2)
  - **Papers Presented at Conferences:** 13
  - **Workshops Attended:** 12
  - **Conferences Attended:** 4
  - Guided several **student research projects** under UG/PG NEP-based curriculum and competitions.
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## Teaching Experience

- **18 years of teaching experience** (2005–present), primarily at **Modern College, Ganeshkhind, Pune** (2005–2007 CHB basis, 2007 onwards).
  - **Courses Taught:**
    - M.Sc. Environmental Science (Water analysis, Analytical Techniques) at Department of Environmental Science, SPPU, Pune.
    - PG B.Sc. Applied Analytical Techniques, Department of Chemistry, SPPU, Pune.
    - Guest faculty for Physical Chemistry and Statistical Thermodynamics at CT Bora College, Shirur.
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## Honors & Awards

- **ISAS Best Performance Award 2023**, Indian Society of Analytical Scientists (ISAS), Feb 2024, VNIT Nagpur.
  - **Best Oral Presentation Award**, National Conference, Modern College, Pune (2018).
  - **Best Paper Award**, National Conference, Department of Chemistry, University of Pune (2013).
  - **Young Scientist Award**, Indian Council of Chemists, National Conference, Patan (2009).
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## Book Chapters

- Book Chapter (2024): "**Radioactive Pollution**" in *Textbook on Environmental Education for Undergraduates*, Atlantic Publication.
  - Book Chapter (2023): "**Activated Carbon for Wastewater Management**" in *Activated Charcoal for Environmental Sustainability*.
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## Memberships

- Life Member, **Indian Women Scientists Association**, Pune Chapter
  - Life Member and **Executive Committee member**, **Indian Society of Analytical Scientists**, Pune Chapter
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## Faculty Development & Certification

- **FDPs:**
    - 2-week FDP: Open Source Tools for Research (June 2020), Ramanujan College, Delhi
    - 2-week FDP: Managing Online Classes & MOOCs 3.0 (July-Aug 2020)
    - 1-week FDP: e-Content Development (June 2020), Modern College
  - **Certificate Course:** Introduction to Coordination Chemistry, May 2020
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## Workshops

- Scientific Writing & Communication Skills, University of Pune, 2008
  - 81st DAE-BRNS-IANCAS National Workshop on Nuclear & Radiation Chemistry, 2012
  - IISER Workshop on “Education in Chemistry”, Dec 2014
  - Workshop on Technical Skill Development, Modern College, 2014
  - NET-SET Guidance Workshops (2012, 2013, 2015)
  - **Research Guidance for UG/PG Students** (Avishkar Research Competitions (2022–25)):
    - Current Status of River Water in Pune.
    - Industrial effluent analysis and probable treatments.
    - *Water pollution, dye adsorption using fruit waste, food adulterant detection.*
    - Analysis of Adsorbed Methylene Blue Dye.
    - Rejuvenating the Lost Wonder – Ramnadi.
  - 14 NEP-based short field projects conducted for SYBSc students.
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## Notable Conference Presentations

- “*Diffusion of Fe<sup>3+</sup> Ions in Agar Gel Medium*”, ISAS Meet, July 2024.
  - “*Effect of Electrolyte Concentration on Diffusion of Fe<sup>3+</sup> Ions*”, Analytical Science Congress 2024.
  - “*Activation Energy for Diffusion*”, University of Pune (2013) – Awarded
  - “*Diffusion Studies of Transition Metal Ions*”, National and International Forums including Bangkok, Trombay, and Baroda.
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