



MR. DHOTRE SONABA BALKRUSHNA

Assistant Professor – Organic Chemistry

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Maharashtra, India

CAREER OBJECTIVE

To contribute to higher education through effective teaching, quality research, student mentoring, and academic excellence while promoting innovation in Chemistry.

PROFESSIONAL PROFILE

Dedicated Assistant Professor with 7 years of teaching experience at Anantrao Pawar College, Pirangut. Expertise in Organic Chemistry, laboratory instruction, research methodology, curriculum planning, and student guidance.

TEACHING EXPERIENCE

Assistant Professor, Anantrao Pawar College, Pirangut

- 7 years of Post Graduate M.Sc Chemistry teaching experience.
- Conducted theory and practical classes.
- Prepared lesson plans, question papers, and assessment materials.
- Guided student projects and laboratory work.
- Participated in NAAC, IQAC, and academic activities.

EDUCATIONAL QUALIFICATIONS

- M.Sc. Organic Chemistry, Savitribai Phule Pune University – First Class
- B.Sc. Chemistry, Savitribai Phule Pune University – First Class
- B.Sc. Botany, Savitribai Phule Pune University – First Class
- HSC – Maharashtra Board
- SSC – Maharashtra Board

SUBJECTS TAUGHT

- Organic Chemistry
- Physical Chemistry
- Inorganic Chemistry
- Analytical Chemistry

- Environmental Chemistry

RESEARCH INTERESTS

- Organic Synthesis
- Nanomaterials
- Photocatalysis
- Green Chemistry
- Spectroscopic Analysis

RESEARCH PUBLICATIONS

- Enhanced photocatalytic activity of SnO₂@g-C₃N₄ heterojunctions for methylene blue and bisphenol-A degradation: effect of interface structure and porous nature
- Preparation of nanocrystalline CuAl₂O₄ Through Propylene Oxide assisted Sol- Gel Route
- Photochemical Screening and mineral Analysis of solanum anguivi Lam. Plant by FTIR, GC-HRMS and AAS, UV-VIS Spectroscopy methods.
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CONFERENCES AND SEMINARS

- E-Conference on “Science, Social Science, Arts, Business and Education: A Global Perspective (ICSSABEGP-2024)” Organized by Department of Political Science, History, English and Internal Quality Assurance Cell (IQAC), Date: 28th September 2024, Day-Saturday participated and presented a research paper entitled "Synthesis and Characterization of SnO₂ Based Nanostructures for Photocatalytic and Gas Sensing Applications".
- Two days national conference on “FRONTIERS IN CHEMICAL SCIENCES” Organized by Department of Chemistry Yashwantrao Mohite College of Art’s, Science and Commerce Pune.
- Two days international conference on - Green chemistry and Smart Nanomaterials For Sustainable development 27th and 28 Feb 2026
- One day international conference on FRONTIERS IN SUSTAINABLE AND ADVANCED CHEMICAL SCIENCES. 18 April 2026. At Yashwantrao Chavan Institute of Science Satara.

LABORATORY AND TECHNICAL SKILLS

- HPLC
- Column Chromatography
- Rotary Evaporator

- Flame Photometry
- Distillation
- FTIR/UV-Vis exposure

PROFESSIONAL SKILLS

- Teaching and Mentoring
- Research and Scientific Writing
- Teamwork
- Time Management
- Communication

LANGUAGES

English, Hindi, Marathi

DECLARATION

I declare that the above information is true and correct to the best of my knowledge and belief.

Dhotre Sonaba Balkrushna