

Dr. Ketaki Kedar Saravate

Assistant Professor

Contact

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Key Skills

Organization
Time management
Problem-solving
Classroom-
management

Summary

- I am a dedicated and resourceful professional educator committed to every student's academic growth and development.
- A self-directed, action-oriented educator with over **17** years of experience in higher education.

Current Position and Job Profile

Faculty at the Department of Chemistry, P.E.S.'s Modern College, Ganeshkhind, Pune- 411016 since 2009 and teaching subjects include

Organic Reaction Mechanism, Natural Products, Stereochemistry, and Organometallic Chemistry at Under- and Post- graduate levels.

- Worked on various college committees such as College Magazine, Internal Exam, and Science Association.
- Guided more than **30 M.Sc.** students for M.Sc. research projects.
- Coordinated Intercollegiate Chemistry Quiz for UG and PG students from across all colleges in Pune city.

Education

- Completed **PhD** in chemical sciences under the guidance of Prof. Dr. Madhuri Kulkarni Thesis title: Designing of green methods for the synthesis of N-heterocycles and study of their anti-microbial activity.'
- Qualified CSIR **NET-JRF** (2009) and UGC-**SET** (2008)
- M.Sc. Organic Chemistry from the Department of Chemistry, Savitribai Phule Pune University, Pune. Year of Passing: 2008 (73.5%)
- B. Sc. in Chemistry from R.Y.K Science College, Nashik. Year of Passing: 2006 (88.5%)

Research Interests:

GREEN ORGANIC SYNTHESIS

HETEROCYCLIC

COMPOUNDS

METAL OXIDES

INSTRUMENTAL ANALYSIS

Research Publication

- Saravate, K., Kulkarni, N., & Kulkarni, M. . Metal-Free Sonochemical Synthesis, In Silico Molecular Docking, and ADME Profiling of 2-Aryl-1 H-benzimidazoles as Promising Antimicrobial Agents. Russian Journal of Organic Chemistry, 61(12), 2391-2400 (2025). <https://doi.org/10.1134/S1070428025601566>
- Saravate Ketaki, Kulkarni Netra, Purandare Rucha, Murade Vaishali, and

Kulkarni Madhuri, (2026) Water-mediated efficient green synthesis of substituted isoxazol-5(4H)-ones using waste-derived potassium alum catalyst. Res. J. Chem. Environ, Vol. 30 (4), 128-136. <https://doi.org/10.25303/304rjce1280136>

- Madhuri Kulkarni, R. Mangain, **Ketaki Saravate** and Revati Nagarkar, one-pot synthesis of Tri-substituted imidazoles using wet cyanuric chloride', The Pharma Innovation, 2008,7(1):153-155.

Academic Experience

JULY 2009 - TILL DATE

Assistant Professor | Modern College Ganeshkhind, Pune-16

OCTOBER 2008-APRIL 2008

Assistant Professor | R.Y.K Science College, Nashik

JULY 2008 - OCTOBER 2008

Research Associate | Innovasynth Pvt Ltd.

Projects

- Project title: Synthesis and applications of Nitrogen heterocycles as sensors for pollutants.
Modern College of ASC, Ganeshkhind, Pune-16
Funding: Dabake Trust, Pune
- Project title: Synthesis of novel antifungal drug, Naftifine and its analogues.
Modern College of ASC, Ganeshkhind, Pune-16
- Project Title: Synthesis of eight-membered Aza sugars.
Project Guide: Dr. Dilip D. Dhavale
Department of Chemistry, University of Pune.
- Project Title: Synthesis of Palladium complexes and its applications in the Heck reactions.
Project Guide: Dr. Suresh B. Waghmode,

Conferences/Seminars/Workshops

- Presented a paper at the Indian Council of Chemists' National Conference from 26th – 28th December 2024.
- Presented a paper at the International Conference on Recent Advances on Green Advances and Drug Discovery organized by Akal University, from 4-6th September 2024.
- Presented paper at the 31st Raman Memorial Conference-2024 organized by Physics Department, SPPU
- Worked as a Resource person in the Teacher's workshop organized by the Board of Studies, Chemistry, SPPU from 31 May to June 2021.
- Attended National Webinar on Completed one-week National FDP on Research Methodology organized by Kamla Nehru Mahavidyalaya in April 2021.
- Completed 2 weeks of FDP on Managing online classes and Co-creating MOOCS 3.0 organized by Ramanujan College, Delhi in July 2020.
- Participated in a National webinar on Features of Chemdraw and Greener aspects of Drug discovery organized by RNC arts, JDB commerce and NSC Science College, Nashik in 2020
- Participated in a Short-term course 'Train the Trainers: Enhancing Chemistry teaching Skills' funded by TLC, Government of India and organized by S. P. College, Pune, May 2018.
- Participated in One day workshop on Patent: An Important area to know, organized under STAR-DBT college scheme, February 2019.

**COMPUTER
KNOWLEDGE**

Molecular Docking
Softwares,
Origin,
MNova,
Chem-Draw

- Presented a paper at National conference 'Chemical Science an Interdisciplinary Approach' organized by Modern College, Ganeshkhind, Pune, January 2018.
- Presented a paper 'at International Conference at FESEM organized by B.R. Gholap College, Pune, March 2016.
- Presented a paper entitled 'Green synthesis of 3,4-dihydropyrimidinones' at National Conference on Advances in Chemical Sciences with special ref. to Molecular Spectroscopy, Material Science and Organic Electronics organized by Fergusson College, Pune, December 2014.
- Presented paper at National Seminar organized by Y. M. College, Bharathi Vidyapeeth University, Pune, January 2013.
- Worked as a resource person in the skill-based credit course for S.Y.B.Sc. students.
- Presented paper at National Conference organized by Indian Council of Chemists held at Osmania University, Hyderabad, December 2011.
- Participated in National Seminar organized by the Department of Chemistry, Modern College of ASC, Ganeshkhind, Pune
- Attended the Workshop on 'Framing of S.Y.B.Sc Syllabus' held in February 2009 at Nashik.

REFERENCES:

Prof. Dr. Madhuri Kulkarni
Head, Department of Chemistry,
Modern College of Arts, Science and Commerce,
Ganeshkhind, Pune-411016

Declaration:

Information stated above is true to the best of my knowledge.

Ketaki Kedar Saravate