

FACULTY PROFILE

❖ **Basic Information**

- **Name:** Ms. Krupali Ramesh Barde
- **Designation:** Assistant Professor
- **Department:** Chemistry
- **Area of Specialization:** Organic Chemistry
- **VIDWAN ID-** 448270
- **ORCID ID-** 0009-0004-4869-6497



❖ **Educational Qualifications:**

SET, GATE, B. Ed. M. Sc. Organic chemistry

❖ **Teaching Experience:**

Total Teaching Experience: 6 Years

❖ **Research Experience**

- Total Research Experience: Pursuing Ph. D.
- Areas of Research Interest : Nanocomposite and Perovskite

❖ **Research Publications**

(A) Research Papers in National/ International Journals

- Synthesis and Characterization of CdO-SnO₂ Nanocomposite and Perovskite CdSnO₃ Thin Films for Gas Sensing Application. ISSN 1063-7826, Semiconductors, 2024, Vol. 58, No. 10, pp. 772-780. © Pleiades Publishing, Ltd., 2024. <https://link.springer.com/article/10.1134/S1063782624601523>

(B) Books / Book Chapters

Authored-

- Chemistry B. Sc. Semester- II (NEP-2020) Based on syllabus of R.T.M. Nagpur University, Nagpur ISBN- 978-93-48359-72-8
- Chemistry B. Sc. Semester- I (Major) & B. Sc. Semester- III (Minor) (NEP-2020) Based on syllabus of R.T.M. Nagpur University, Nagpur ISBN-978-93-48359-83-4

(C) Conference / Seminar Proceedings

- Study of Nanocomposite and Perovskite Thin Films for Photoconducting Application. Proceedings of at one day National Conference on Modern Prospective in Physical and Chemical Sciences (MPPCS-2024) jointly organized by Dhanaji Nana Mahavidyalaya, Faizpur and KBC North Maharashtra University, Jalgaon on 28th December, 2024. ISBN No. 978-93-48359-45-2.
- Synthesis of CdO-SnO₂ Nanocomposite and Perovskite CdSnO₃ Thin Films by using Spray Pyrolysis Technique for Studies of Gas Sensing Properties. Pg. 148 Proceedings of International conference on Advanced Functional Materials (Innovations in Chemical, Physical and Biological Sciences) ICAFM-2026 on 6th and 7th February 2026 organized by Dharampeth M. P. Deo Memorial Science College, Nagpur. ISBN No. 978-93-6186-380-6.

❖ Orientation / Refresher Courses / FDPs Attended

- Completed Five Day International Faculty Development Programme on 'AI in Research and Innovation' from 18 to 22 August, 2025 at L.A.D. & Smt. R. P. College for Women, Nagpur under the aegis of the Internal Quality Assurance Cell (IQAC) aiming to integrate Artificial Intelligence in academic research and innovation.
- 'NEP- 2020 Orientation and Sensitization Programme' under Malviya Mission Teacher Training Programme (MM-TTP) of UGC organised by UGC-MMTTC, RTMNU, Nagpur from 16 to 30 March, 2025.
- Completed 'Online 13th Faculty Induction Programme' under Malviya Mission Teacher Training Programme (MM-TTP) of UGC organised by UGC-MMTTC, RTMNU, Nagpur from 2nd to 30th January, 2025 and obtained Grade A+.
- Completed Five Day Faculty Development Programme on 'AI Teachers' from 3rd to 7th January, 2026 at Baramati.
- Completed Six Day FDP from 18 to 24 July, 2024 organised by Justice M. L. Pendse Language Lab in collaboration with IQAC, L.A.D. & Smt. R. P. College for Women, Nagpur.
- Completed Five Day FDP on 'Student Centric Methodology and Interactive Teaching Strategies using Technological Tools' from 9th to 13th October, 2023 organised L.A.D. & Smt. R. P. College for Women, Nagpur under the aegis of Internal Quality Assurance Cell.

❖ Papers Presented in Conferences / Seminars

- A Poster presented on the topic entitled 'Study of Nanocomposite and Perovskite Thin Films for Photoconducting Application' at one day National Conference on Modern Prospective in Physical and Chemical Sciences (MPPCS-2024) jointly organized by

- Dhanaji Nana Mahavidyalaya, Faizpur and KBC North Maharashtra University, Jalgaon on 28th December, 2024.

❖ **Membership of Professional Bodies**

- Life member of Vigyan Bharati Vidarbha Pradesh Mandal, Nagpur (VIBHA).
- Life member of Vidyapeeth Shikshan Manch, Nagpur.

❖ **Awards / Recognitions**

- Got 2nd prize in Poster Presentation on 'Studies on Photoconductive properties of Nanocomposite Thin Films by using Spray Pyrolysis Technique' in National Conference on Changing Paradigms in Chemical Sciences (CPCS-2025) organised by Department of Chemistry, Bhusawal Arts, Science and P. O. Nahata Commerce College, Bhusawal on 29 September 2025.
- Got 2nd prize in oral presentation on 'Synthesis Characterization and Applications of Semiconductor Metal Oxides and Perovskite Thin Films' in National Conference on Innovation in Bio Geo-Chemical Sciences 2024 organised by Dadasaheb Devidas Namdeo Bhole College, Bhusawal.

❖ **Extension Activities / Community Engagement**

- Delivered a Guest Lecture on Organic Chemistry Course to the Students of B. Sc. final year on 15th and 16th July, 2024 at Department of Chemistry, S.V.P. Arts & Science College, Ainpur Dist. Jalgaon.
- Conducted activity on Chemistry in Everyday Life for the students of Z. P. Upper Primary School in the NSS Special Camp 2023-24 organized by the national service Scheme Unit II of L. A. D. & Smt. R. P. College for Women, Nagpur from 20 to 27 February 2024 at Z. P. Upper Primary School, Mahurzari.

❖ **Other Relevant Information**

Workshops Attended :

- Completed one day State Level Workshop on Research Methodology in Chemical Sciences organised by Department of Chemistry, S.V.P. Arts and Science College, Ainpur on 12th March, 2024.
- Completed one day National Level Workshop on Research Methodology organised by Dhanaji Nana College, Faizpur on 30th August, 2024.
- Participated in One Day National Symposium on NEP 2020 : A global perspective for HEIs on 16th December, 2023 at Nagpur.
- Completed the 2- Credit SWAYAM Course National Education Policy – 2020 : Professional Development Programme held from 1st to 31st December 2023 and obtained 79 % marks.
- Member of Local Organizing committee of International Conference on Advanced Functional Materials (Innovations in Chemical, Physical and Biological Sciences) ICAFM-2026 on 6th and 7th February 2026 organized by Dharampeth M. P. Deo Memorial Science College, Nagpur.

Contributions At The College Level

- Served as a member of the A.Q.A.R Criteria-7 committee.
- Convenor of Department level Poster Presentation Competition for the Students of B. Sc. Chemistry.
- Co-Convenor of Department level Poster Presentation Competition for the Students of B. Sc. Chemistry.

College Committee Membership :

- Career Katta
- Dr. S. Iyengar Intercollegiate GK Quiz Competition
- Parking committee
- Catalyst Fitness Club

❖ Contributions at The University Level

- Paper valuation for B.Sc. Chemistry college/university examinations.
- Served as examiner and paper valuer for B.Sc. 1st year Chemistry internal exams at the college level.
- Appointed as Internal and External Examiner for B.Sc. Chemistry practical examination.
- Moderation of Question Paper of Applied Chemistry (BAEST)(RTMNU Summer).