

L.A.D. & Smt. R.P. College for Women, Nagpur

FACULTY PROFILE



❖ Basic Information

- **Name:** Ms. Nikita Satish Gupta
- **Designation:** Assistant Professor
- **Department:** Chemistry
- **Area of Specialization:** Organic Chemistry
- **VIDWAN ID-** 697955
- **ORCID ID** -0009-0009-2085-5608

❖ **Educational Qualifications:** CSIR-UGC-NET-JRF, MH-SET, GATE, M.Sc. Chemistry, B.Sc.

❖ Teaching Experience: 06

- **Total Teaching Experience:** 06 Years

❖ 4. Research Experience

- Total Research Experience: 2.5 years
- Research Guidance (M.Phil/Ph.D. Guided): Persuing Ph.d
- Areas of Research Interest: Nanochemistry, Nanophotocatalyst, AOPs.

❖ Research Publications

(A) Research Papers in National/ International Journals

- Gupta, N. S., & Mandavgane, S. A. (2024). The enhanced photocatalytic degradation of alizarin red S dye using Cu-doped TiO₂ nanoparticles under UVA, LED, and sunlight irradiation. *Rasayan J. Chem.*, 17(4), 2033-2044. doi: 10.31788/RJC.2024.1749082
- Gupta, N. S., & Mandavgane, S. A. (2024). Photocatalytic degradation of methylene blue dye by carbon doped titanium dioxide. *International Journal of Researches in Biosciences, Agriculture and Technology*, XII(III), 28-34. doi: 10.29369/ijrbat.2024.010.3.0006

(B) Books / Book Chapters

Authored-

- B.Sc. II Semester- University Organic Chemistry-2 (Theory + Practical) for NEP-2020, Publisher- Alliance and Co. ISBN- 978-93-48359-72-8.

- 2. 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

- Poster presented on Synthesis of Metal doped nano photocatalyst and its characterization on 13th National Conference on Thermodynamic of chemical and biological systems at PGTD Chemistry RTMNU, Nagpur.
- Presented Oral on Synthesis of Nickel- doped TiO₂ and its application in degradation of AlizarinRed dye at International Conference on Innovations in Physical, Chemical and Biological Sciences for Sustainable Development, IPCBSSD-2026 Organized by Gurunanak College of Science, Ballarpur in collaboration with Association of Chemistry Teachers (ACT), Mumbai.
- Poster Presented on Degradation of Methylene Blue dye using Photo-Fenton Process and its optimization and Kinetics at International Conference on Advance Functional Materials (ICAFM)-2026, Organized by Dharampeth Science College, Nagpur, Department of Chemistry, In collaboration with IQAC, RTMNU and ACT, Mumbai.

❖ 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 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

1. Presented Oral on Synthesis of Nickel- doped TiO₂ and its application in degradation of AlizarinRed dye at International Conference on Innovations in Physical, Chemical and Biological Sciences for Sustainable Development, IPCBSSD-

2026 Organized by Gurunanak College of Science, Ballarpur in collaboration with Association of Chemistry Teachers (ACT), Mumbai.

❖ **Workshops / Seminars / Conferences Organized**

- Convenor of skill development workshop on ChemDraw Software dated 16th march 2024 L.A.D. & Smt. R.P. College for Women, Nagpur
- Conducted a Floor Cleaner Workshop dated 13th and 15th April 2024 L.A.D. & Smt. R.P. College for Women, Nagpur
- Convener of Inorganic Chemistry model making competition for class B.Sc. Second Year.

❖ **Membership of Professional Bodies-**

- Life Member of Vighyan bharti vidharbha Pradesh mandal (VIBHA), Nagpur.
- Life Member of Vidhyapeth Sikhshan Manch , Nagpur.

❖ **Awards / Recognitions**

- CSIR-UGC-NET-JRF awarded

❖ **SWAYAM / NPTEL Courses**

- Completed 2-Credit Swayam course on NEP-2020 (Professional development programme) from 1st dec -31st dec 2023
- Completed 3-Credit Research Methodology from RTMNU
- Completed 2-Introduction to Research from RTMNU
- Completed -1- Effective writing from RTMNU
- Completed 2-Credit SWAYAM- NPTEL Online Certification on Pericyclic Reactions and Organic Photochemistry
- Completed 3-Credit SWAYAM- NPTEL Online Certification on Coordination Chemistry
- Completed 3-Credit SWAYAM- NPTEL Online Certification on Oxidation and reduction reagents

❖ **YouTube Lectures**

- <https://www.youtube.com/live/9m6KMMvwTJE?si=EEGrqfqTz4CMpRns>
- https://www.youtube.com/live/JHgyzwWQUlg?si=d_cMjgZG5v7wa5Fo
- https://www.youtube.com/live/RfsyZUd0MC0?si=oP4eGRy4jxdxPcg_
- <https://www.youtube.com/live/riqtMme0msI?si=n07B70LZMpVmoyJJ>
- <https://www.youtube.com/live/hVhHhiEDXvU?si=EhaGuwgERfed5rCO>

❖ **Other Relevant Information**

- Completed the 2- Credit SWAYAM Course National Education Policy – 2020: Professional Development Programme held from 1st to 31st December 2023.
- Paper setter of Paper of Applied Chemistry Sem II .
- Worked as an Internal and External Practical Examiner for College and University Level Examination for B. Sc. Chemistry.
- Paper Evaluation of B. Sc. Chemistry College and University Level Examination.
- College Committee member of Sewa Committee, Discipline and anti- ragging, Catalyst fitness club, Training and placement cell, Urmi and Criteria-6 member (IQAC)

- Member of local organising committee of International Conference on Advance Functional Materials (ICAFM)-2026, Organized by Dharampeth Science College, Nagpur, Department of Chemistry, In collaboration with IQAC, RTMNU and ACT, Mumbai.