

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

FACULTY PROFILE

❖ Basic Information

- **Name:** Dr. Spruha Gharad
- **Designation:** Assistant Professor
- **Department:** Chemistry
- **Area of Specialization:** Organic Chemistry
- **VIDWAN ID-** 697923
- **ORCID ID** – 0009-0002-4682-4024
- **Google Scholar ID-** kRWooUkAAAAJ



❖ Educational Qualifications: M.Sc. (Chemistry), B.Ed., Ph.D.

❖ Teaching Experience:

Total Teaching Experience: 14 Years

❖ Research Experience

- Total Research Experience: 7 years
- Research Guidance (M.Phil/Ph.D. Guided): NA
- Areas of Research Interest: Synthesis of Heterocyclic Compounds, Medicinal Chemistry

❖ Research Publications

(A) Research Papers in National/ International Journals

- "Synthesis of quinoline-based [1,2,4]-dithiazolidines through sulfur-sulfur bond formation and their evaluation as anti-inflammatory and antibacterial agents". Published in Phosphorus, Sulfur, and Silicon and the Related Elements, Taylor & Francis, 2016, Volume 191.
- "Synthesis, characterization and antibacterial study of 1-arylamido-3-chloro-4-(2-chloroquinolin-3-yl)-azetidin-2-ones". Published in Journal of Indian Chemical Society, Indian Chemical Society, 2016, Volume 93.
- "Synthesis and anticancer activity of bis-(N-glucosylated triazolothiadiazolyl) alkanes via cyclocondensation reaction involving C-S and C-N bond formation". Published in

Phosphorus, Sulfur, and Silicon and the Related Elements, Taylor & Francis, 2015, Volume 190.

- “Recent Advances and Challenges in Plastic Waste Recycling: A Review” Published in Research Journal (Half Yearly Double-Blind Peer Reviewed Journal of Science, Home Science and Home Science Technology), 2023, Volume 19

(B) Books / Book Chapters

Authored-

- “University Organic Chemistry-2” for B.Sc. Second Semester as per NEP-2020 syllabus of R.T.M. Nagpur University, Nagpur (Alliance Publication, ISBN- 978-93-48359-72-8)
- “University Organic Chemistry-1” for B. Sc. Semester- I (Major) & B. Sc. Semester- III (Minor) as per NEP-2020 syllabus of R.T.M. Nagpur University, Nagpur (Alliance Publication, ISBN-978-93-48359-83-4)

(C) Conference / Seminar Proceedings

- Synthesis, Characterization and Antimicrobial evaluation of 1-(thiadiazepinoquinolinylamino)-3-chloro-4-aryl azetidine-2-ones, Pg. 88 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. 978-93-48359-45-2.

❖ Orientation / Refresher Courses / FDPs Attended

- Attended a Faculty Induction Training Programme at G. H. Raisoni Academy for Human Excellence, Nagpur held from 9 August to 11 August, 2010.
- Completed a one-week Faculty Development Program on “Jmol Application” Organized by Department of Chemistry, Bajaj College of Science, Wardha in association with Spoken Tutorial Project, IIT Mumbai from 8 May to 14 May, 2020.

- 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.
- 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 UGC sponsored online Refresher Course in Chemistry from 7- 19th October, 2024 organized by Malaviya Mission Teacher Training Centre, RTMNU, Nagpur with A+ grade.
- Completed a short-term program on '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 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.
- Completed UGC sponsored online Faculty Induction Programme (Orientation) from 1 to 27 December, 2025 organized by Malaviya Mission Teacher Training Centre, RTMNU, Nagpur with A+ grade.

❖ Papers Presented in Conferences / Seminars

- Presented poster (Title: Synthesis and characterization of 3-(phenylimino)-4-[(2-chloroquinolin-3-yl) methyleneamino]-5-(arylimino)-1,2,4-dithiazolidines) in International conference on 'Applications of Advanced Materials for Sustainable Development' on

17th-18th Jan 2014 organized by Dr. Babasaheb Ambedkar College, Nagpur, in association with CSIR-NEERI.

- Presented poster (Title: Synthesis and Characterization of 1-arylamido-3-chloro- chloroquinolin-3-yl)-azetid- 2-one) in International conference on 'Futuristic Materials and Emerging Trends in Forensic and Life Sciences' on 5th-7thFeb, 2015 organized by Dept. of Chemistry, RTMNU, Nagpur.
- Presented poster (Title: Synthesis and Characterization of 3-arylimino-[1,2,4]- triazolo[3,4-b][1,3,4]quinolino thiadiazepines) and won **third prize** in National Conference on Thermodynamics of Chemical and Biological Systems on 26-28th October, 2023 organized by Dept. of Chemistry, RTMNU, Nagpur.
- Presented Paper (Title: Synthesis, Characterization and Antimicrobial evaluation of 1-(thiadiazepinoquinolinylamino)-3-chloro-4-aryl azetidine-2-ones) in 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.
- Presented Paper (Title: Green Chemistry Approaches for the Sustainable Synthesis of Bioactive Compounds: A Review) in International Conference on Innovations in Physical, Chemical and Biological Sciences for Sustainable Development (IPCBSSD-2026) organized by Gurunanak College of Science, Ballarpur in association with ACT, Mumbai.

❖ **Workshops / Seminars / Conferences Organized**

- One-day Intercollegiate Skill Development Workshop on ChemDraw Software on 6th March,2025 at L.A.D. and Smt. R. P. College for Women, Nagpur.

❖ **Membership of Professional Bodies**

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

❖ **Awards / Recognitions**

- Secured third position in poster presentation in National Conference on Thermodynamics of Chemical and Biological Systems on 26-28th October, 2023 organized by Dept. of Chemistry, RTMNU, Nagpur.

❖ **E-Content / MOOCs / ICT Use: NA**

- **Swayam/NPTEL Courses:** Completed 2- Credit SWAYAM Course National Education Policy – 2020 : Professional Development Programme held from 1st to 31st December 2023

❖ **Other Relevant Information**

Patent Published:

- Patent application number: 202521009367 A

Patent Title: A Method for Preparing Sustainable Bricks

Issuing country: INDIA

Publication date: 21-02-2025

Workshops Attended:

- Attended a one-day workshop on 'Effective Classroom Management' at G. H. Rasoni Academy for Human Excellence, Nagpur.
- Attended one-day National Online Workshop on "Intellectual Property Rights and Innovations" organized by Research promotion committee (IQAC) and Institution's Innovation Council, Bajaj College of Science, Wardha on 19 December, 2020.
- Participated in One-week National Workshop on Intellectual Property Rights- (Patents and Industrial designs) from 18th to 22nd March, 2024

organized by Research and Development Cell in association with PGTD of Law, IQAC and IPR Cell, RTMNU, Nagpur.

College Committee Membership

- Member of NAAC Criteria - 6
- Member of IQAC-Task Force
- Member of Students' Aid Fund Committee
- Member of Feedback Committee
- Member of Mentor Committee
- Member of Annual Prize Distribution Committee
- Member of Training and Placement Committee

Resource Person/Lectures delivered/Conference committee member

- Delivered a presentation on the topic "Microscale techniques: A promising solution for Green Chemistry" in Manthan Interdisciplinary Research Activity under the aegis of Research Development Cell, L.A.D. and Smt. R. P. College for Women, Nagpur.
- Resource Person for a One-day Intercollegiate Skill Development Workshop on ChemDraw Software on 6th March, 2025 at L.A.D. and Smt. R. P. College for Women, Nagpur.
- Invited as a Judge for Late Dr. Suresh Palsokar Memorial Intercollegiate Power Point Competition Organized by Department of Chemistry, M.P. Deo Dharampeth Science College, Nagpur.
- 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.