

# Resume



## **Babita Yadao** **Assistant Professor, Chemistry**

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### **Contact Details:**

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### **Profile Summary:**

Innovative **Assistant Professor, Chemistry** bringing proven success in implementing technology-based curriculum delivery and assessment tools. Passionate about fostering academic development and success for every student. Committed and engaging Chemistry person in bringing exceptional lecturing skills and expertise in Green Synthesis of nanomaterials. Gifted in engagement and guidance of students with more than 10 years at Graduate and Post Graduate education.

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### **Work Summary:**

- ✧ **Research Scholar, PGTD, RTMNU, Nagpur**  
*Nagpur, India |May 2023 – Current*
    - Pursuing Ph.D. entitled "Synthesis of Different Nanomaterials Using Greener Synthetic approach, Characterization and Applications"
    - Synthesized nanomaterials through biomaterial
    - Characterization was done through SEM, TEM, IR, UV-Visible, XRD etc. techniques
    - Documented procedures and results with high degree of accuracy and precision.
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✧ **Assistant Professor, Department of Chemistry, DRBSMV, Nagpur University.**  
*Nagpur, India | June 2019 - Current*

- Evaluated and supervised student activities and performance levels to provide reports on academic progress.
- Helped struggling students by providing support outside of classrooms and consistently checking in on progress.
- Applied innovative teaching methods to encourage student learning objectives.
- Built strong rapport with students through class discussions and academic advisement.
- Mentored students and communicated internship and employment opportunities.
- Contributed to campus activities to promote positive university image.
- Performed research to serve as basis for academic writing for publication.
- Facilitated academic and community collaborations to increase number of community-engaged research proposal submissions to extramural funders.
- Established research agenda nanomaterials field to publish in peer-reviewed journals.

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✧ **Chemistry Instructor, SMART Learning Centre**  
*Pune, India | August 2017 - March 2018*

- Prepared plans, materials and activities for students to reach chemistry learning outcomes.
- Constructed and administered tests and exams to measure student learning.
- Developed and distributed approved course syllabus to students to convey goals and outcomes of course.
- Fostered motivating learning environment by planning and displaying enthusiasm for organic and inorganic chemistry and Physical Chemistry for different entry level tests.

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✧ **Lecturer, Chemistry, JMV, Chanda Shikshan Prasharak Mandal,**  
*India | July 2012 - April 2016*

- Daily lectures and conduction of practicals at undergraduate as well as post graduate level
- Mentored and advised students to explore career pathways based and amplify knowledge, skills and strengths.
- Participated in conferences and professional development opportunities to stay up-to-date with latest trends in field.

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**Education summary:**

✧ **Certification in Organic Chemical Technology| Pulp manufacturing, Paper Industry, Fermentation Industry.**

*NPTEL, October 2023*

✧ **Certification in Structural Analysis of Nanomaterials| SEM, TEM, UV-Visible, XRD, IR.**

*NPTEL, September 2023*

- ✧ **Certification in Patent Drafting| Patent-Title, Description, Specifications, Drafting.**  
*NPTEL, September 2023*
  - ✧ **Certification in Material Characterization Techniques| SEM, TEM, UV-Visible, XRD, IR.**  
*Udemy, May 2023*
  - ✧ **Ph.D. (Pursuing)Green Synthesis of Nanomaterials Via Biomaterials**  
*PGTD, Nagpur University, May 2023*
  - ✧ **Certified Master Trainer, Effective Pedagogy, Effective Teaching, Learning Pedagogy**  
*Pune, Indian Institute of Science Education and Research, May 2022*
  - ✧ **Eligibility Test, State Eligibility Test (Lectureship), Chemistry, Inorganic, Organic, Physical Chemistry**  
*Pune, India, May 2015*
  - ✧ **Bachelor of Education, Education of Individuals in Middle School Special Education Programs**  
*Nagpur, India, June 2012*
  - ✧ **Master of Science, Nagpur University, Chemistry**  
*Nagpur, India, June 2011*
  - ✧ **Bachelor of Science, Nagpur University, Physics, Chemistry, Maths**  
*Nagpur, India, June 2009*
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### **Skills:**

- Organic synthesis
  - Statistical Analysis
  - Characterization and Analysis of results
  - SEM, TEM, UV-Visible, IR, XRD
  - Counsel Undergraduates
  - Educational Strategies
  - Google Docs
  - Google Forms
  - Thesis Advisement, Academic writing
  - Technology-Based Learning Tools
  - Educational Research
  - Positive Reinforcement Strategies
  - Presentations and White Papers
  - Examination Administration
  - Plan Courses
  - Research Protocols
  - Research and Data Management
  - Classroom Lectures
  - Conducting, organizing workshops
  - Team work, quick learner, Adaptive
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## **Accomplishments:**

### **❖ Academics Achievements:**

- National topper in Certification Course-Structural Analysis of Nanomaterials
- University Topper at Graduate level
- University Topper at Postgraduate level

### **❖ Professional Achievements:**

- **Joint Organizing Secretary** - “International Conference on New Horizons and Trends in Chemical Sciences-2022” a joint venture of DRB Sindhu Mahavidyalaya, Nagpur and ISAS.
- **Member Working Committee** - “National Conference” organized by IQAC, DRB Sindhu Mahavidyalaya, Nagpur Sponsored by NAAC
  - “National Conference” on Thermodynamics-NCTCBS-2023
- **Interviewer** - interviewed contractual Based teachers positions for UG level by RTMNU
- **Organizer and Resource person** – Working as Master Trainer under state level project, MS-DEED Workshops for teaching Pedagogy at Higher Institutes in collaboration with Indian Institute of Science Education and Research (IISER), Pune, India.
- **Mentor and Guide**- Dissertations/ Projects at Post Graduate Level

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## **- Publications:**

- Recent Progress in the Mitigation of Nanomaterials via the Biosynthetic method of Plant Extract, *AIP Conference Proceedings*, 2974(1), 2024.
- Recent advances in the rare earth metal doped nanomaterials and their applications in biomedical imaging techniques, *AIP Conference Proceedings*, 2974(1), 2024.
- A review of recent synthetic strategies and biological activities of isoxazole, *Journal of Heterocyclic Chemistry*, John Wiley & Sons, Inc., 2023.
- A brief review on thiazolidinones and azetidinones: synthesis and biological activities., *Journal of Advanced Scientific Research*, 2021.
- Progress In The Pathways For Synthesis Of Isoxazoles Synthons And Theirbiological Activities, *Journal of Advanced Scientific Research*, 2021

- Advances in the studies of biological activities and novel green synthetic routes for pyrazole scaffolds, *Journal of Advanced Scientific Research*, 2021.
- Synthesis, characterization and antibacterial activity of 1-([6-bromo-2-hydroxy-naphthalen-1-yl] arylphenyl) methyl)-3-chloro-4-(arylphenyl)-azetidin-2-one, , *Journal of Heterocyclic Chemistry*, John Wiley & Sons, Inc., 2020.

### Paper Presentations:

- “Recent Advances in Nanomaterial Synthesis and Surface Plasmon Resonance Optimization for Photocatalytic Degradation of Organic Dyes in Wastewater” at IASC-2024
- “Harnessing the Potential: Diverse Applications of  $\alpha$ -Fe<sub>2</sub>O<sub>3</sub> Nanoparticles” at RTISS-2024
- “Kinetics of Photodegradation of Industrially Important Organic Dyes Through Green Synthesized Nanomaterials” at NCTCBS-2023
- "Review: Metallic nanoparticles, Synthesis and Applications at International Virtual Conference on Materials and Nanotechnology (IVCMN-2021)
- "Review: Green Synthesis of Metallic Nanoparticles at VICMAM-2021
- “A Brief Review on Thiazolidinones and Azetidinones: Synthesis and biological activities at International Conference on Advances in Physical, Chemical and Mathematical Sciences,13-16 feb,2020
- “A Short Perspective Review: Different Synthetic Methods and Biological Activities of Thiazolidinone Derivatives” at 11th National Conference on Solid State Chemistry and Allied Area, (NCSCA-2019)
- “A Review on Synthesis And Biological Activity Of Derivatives Of 1-3 Diones” At National Conference 2015.

### Chapter Published:

- women empowerment-  
<https://doi.org/10.5281/zenodo.4844116>
- Dawn of Women Empowerment and Entrepreneurship  
<https://amzn.eu/d/aV3ru2I>

## Copyright:

➤ A Short Introduction on Ionic Solids,  
Registration Number: L-90493/2020,  
Received:17/03/2020

➤ A Short Information on Some of The Plants Showing Medicinal Properties  
Registration Number: L-133406/2023,  
Received: 21/09/2023

## Personal Details:

**Name:** Babita G. Yadao

**Father's Name:** Gautam K. Yadao

**Spouse Name:** Rajanikant D. Yadav

**Languages Known:** English  
Hindi  
Marathi

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I hereby declare that the information given above is true to the best of my knowledge & belief.



Signature: B.G. Yadao

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