

Dr. Vijay Laxman Gurav

Assistant Professor in Chemistry
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**Educational Qualifications:**

Ph.D in Chemistry (University of Mumbai)
State Eligibility Test (**SET**) in Chemistry
M.Sc. Physical Chemistry (University of Mumbai)
B.Sc Chemistry (University of Mumbai)

Teaching Experience:

Sr. No.	Name of College	Appointment Period	Nature of Appointment
1.	Abasaheb Marathe Arts And New Commerce Science college Rajapur Dist. Ratnagiri.	2006 -2007	Contract
2.	R.P. Gogate college of Arts and Science and R.V. Jogalekar College of Commerce, Ratnagiri.	2007 –2017	Contract
3.	Ratnagiri Sub-Campus, University of Mumbai, P-61, MIDC Mirjole, Dist-Ratnagiri.	2017 to 2023	Ad-HOC
4.	Dapoli Urban Bank Senior Science College Dapoli, Dist Ratnagiri.	September 2023	Permanent

Worked as visiting faculty for Post Graduation in Chemistry

- Dapoli Urban Bank senior Science College Dapoli, Dist Ratnagiri
- Gogate Jogalekar College Ratnagiri (Autonomous).
- S. H. Kelkar College of Arts, Commerce and Science Devgad, Dist- Sindhudurg.
- A.S.P. Arts, Commerce and Science College Devrukh Dist Ratnagiri (Autonomous).
- Arts Commerce and Science College Mahad Dist. Raigad.
- S.R.M College Kudal Dist. Sindhudurg.
- S.P.K. College Sawantwadi Dist. Sindhudurg (Autonomous).
- Ratnagiri Sub-centre, University of Mumbai, MIDC Mirjole, Ratnagiri.
- K.C. College Mumbai

Invited talk /Awards/Honour:-

- **Invited talk:** - One day national workshop on Microscale Techniques in Chemistry, organized by Department of Chemistry Partibai Chougule college of Arts and Science Margao- Goa on 5th March 2016.
- **Invited talk:** - One day national workshop on Novel Experimental techniques in Chemistry, organized by Department of Chemistry Government college of Arts Commence and Science Sakhali- Goa on 27th August 2016.

- Secured **second prize** in National Seminar on Recent Developments in Chemical and Material Sciences organized by Department of Chemistry, Dapoli Urban Bank Science College Dapoli Dist. Ratnagiri (M.S) on Feb.05-06, 2016.
- **Awarded for the best performance** of the year 2012-13, 2015-16 and 2016-17 by R. P. Gogate of Arts and Science and R.V. Jogalekar College of Commerce Ratnagiri.
- **Member of Interview Committee:** -Worked as member of interview panel conducted to recruit the Scientific and Field Assistant for **Maharashtra Pollution control Board**.

Role in University and Autonomous college administration, Curricular, Co-Curricular and Extra Curricular Activities:

- Nominated member of **Board of Studies (BOS) in Chemistry** of K.C. College Mumbai from 2023-2027.
- **Theory and Practical exam paper setter and examiner** for Mumbai University exam. (M.Sc. Sem III, IV Analytical Chemistry and M.Sc. Sem III, IV Physical Chemistry and M.Sc. Sem I, II Chemistry).
- **Theory exam paper setter and practical examiner** for M.Sc. part I and part II chemistry at A.S.P. Arts, Commerce and Science College Devrukh Dist Ratnagiri (Autonomous). S.P.K. College Sawantwadi Dist. Sindhudurg (Autonomous) and Gogate Jogalekar College Ratnagiri (Autonomous).
- **Convener** for “**Diploma in Industrial Safety and Management**” conducted by **University of Mumbai** at Ratnagiri Sub-Campus from June 2021 to April 2023.
- **Member of syllabus committee** for “**Diploma in Industrial Safety and Management**” conducted by University of Mumbai at Ratnagiri Sub-Campus 2020-21.

Role in college administration, Curricular, Co-Curricular and Extra Curricular Activities:

- **Co- convener** of NAAC Criteria II, also member of OBC cell in Dapoli Urban Bank senior Science College Dapoli, Dist Ratnagiri.
- **NSS Programme officer** at Ratnagiri Sub-Campus University of Mumbai during academic year 2021-2023.
- **Convener of Placement cell and member of IQAC cell, Student welfare, Sport, Unfair means, function committees** of Ratnagiri Sub-Campus University of Mumbai.

Consultancy Services:

- Worked as an **Analyst and data operator** in the Shraddha Parshuram Analytical Laboratory (Soil Testing), under **consultancy services** of Dept. of Chemistry Gogate Jogalekar College Ratnagiri.

Faculty Development Programme:-

- Successfully completed four days Faculty Development Programme on “Inhouse, Inclusion and Diversity” organized by MSFDA, Pune from 2nd - 5th January 2024.
- Successfully completed Two Weeks Faculty Development Programme on "ADVANCED CONCEPTS FOR DEVELOPING MOOCS" organized by Teaching and learning centre Ramanujan college, University of Delhi. Sponsored by Ministry of Human resource and Development Pandit Madan Mohan Malaviya National Mission of teaching and learning from July 02 - July 17, 2020.
- Successfully participated and completed four days Faculty Development Programme and workshop on “Moodle Learning Management System” organized by IQAC, University of Mumbai on 5th – 8th August 2020.

Research Area

Nanomaterials, Pollution control techniques, Separation techniques etc.

Research Paper Published: - 11

- 1) Rajesh. A. Samant*, **Vijay. L. Gurav** “A Biosorption of Heavy Metal Ions from effluent using Waste Fish Scale” *Asian J. Research Chem.* 11(5): September- October 2018.
- 2) **Vijay L. Gurav** and Rajesh A. Samant, “Chitosan on immobilized silica: Differential pulse Voltametric determination of heavy metal ions from industrial effluent”. *Water Conservation Science and Engineering, Vol.5 (1-2) pp. 15-21, (2020)*
- 3) **Vijay L. Gurav** and Rajesh A. Samant, “Removal and Recovery of Hazardous Metal Ions from the Industrial Effluent using Waste Fish Scale Impregnated Polyurethane Foam: Voltametric Method”, *International Journal for Research in Applied Science & Engineering Technology*, Vol. 8 (1), pp. 144-149 (2020).
- 4) **Vijay L. Gurav** and Rajesh A. Samant, “Application of waste egg shell for adsorption of Cd (II) and Pb (II) ions to protect environment: equilibrium, kinetic and adsorption studies”, *Oriental journal of Chemistry*, Vol. 37, No.(1): Pg. 128-135 (2021)
- 5) **Vijay L. Gurav***, Rajesh A. Samant, Satish B. Manjareb, Urmila K. Patil, Sana R. Solkar, Shivani S. Moghe “Biosynthesis of calcium oxide nanoparticles using Ocimum sanctum (Tulsi) leaf extracts and screening its antimicrobial activity” *Asian Journal of Nanoscience and Materials* Vol.3 pg.115-120 (2020)
- 6) Satish B. Manjare, Sandip G. Sharma, **Vijay L. Gurav**, Mamata R. Kunde, Sneha S. Patil, Shankar R. Thopate “ Biosynthesis of silver nanoparticles using leaf and bark extract of indian plaint cafisacarand as, Characterization and antimicrobial activity” *Asian journal of Nanoscience and Materials*,3(2020), 58-66
- 7) Satish B. Manjare, Priyanka P. Paranjape, **Vijay L. Gurav** “Silver nanoparticles synthesis using AH leaf extract and its antimicrobial activity” *Bioinspire, Biomimetic and Nanobiomaterials*.
- 8) Pandurang Y. Patil , Gunjan S. Khairnar , Satish b. manjare and **Vijay L. Gurav**, ‘Synthesis of plant-mediated silver nanoparticles using cyperus difformis flower

extract and evaluation of its antioxidant and anticancerous activity' poll res. 42 (4) : 405-412 (2023)

- 9) P. N. Baraskar, **V. L Gurav**, R. A. Samant, (2023).Extraction of Kraft Lignin from waste coconut pith and its application for removal of heavy metal ions from industrial effluent. *Analytical Chemistry Letters* 13(6):660-681
- 10) P. N. Baraskar, R. A. Samant, & **V. L Gurav**, (2023). Removal of heavy metal ions using nano-cellulose prepared from rice husk: validation by differential pulse voltammetry. *Anal. Chem. Lett.* 13 (4):432 -450.
- 11) P. N. Baraskar, **V. L Gurav**, R. A. Samant, (2024), "Efficient removal of heavy metal ions by modified cellulose prepared from Rice Husk: Equilibrium isotherms, Kinetics and desorption Studies" *Anal. Chem. Lett.* Accepted for publication

Seminars/workshops/Conferences participation:

Total no of papers presented in international / national conference: **08**

Participated as member of organizing Committee: **03**

Total no of conference/Seminar/ workshop Attended: **25**

Aavishkar research Convention:

Total no. of projects guided for Aavishkar research convection: **More than 10**

Key Skills:-

- Best knowledge about Instrument handling like; Cyclic Voltmeter, Atomic absorption spectrophotometer, FTIR and others.
- Special training was taken for "soil testing" under the Soil Health Card project, Government of India.