



Profile of the Faculty

1. General Information:

Name of the Faculty	:	Dr. Kamble Vishal Suresh
Name of the Department	:	Chemistry
Educational Qualifications	:	M.Sc., Ph.D., B.Ed., NET, SET, GATE.
Present Position	:	Assistant Professor
Address for Correspondence	:	New Panvel
E-mail	:	vishalchemistry1@gmail.com
Contact Number	:	7977445759
Specialization	:	Physical Chemistry
Total teaching experience	:	13 Years
Courses taught	:	B.Sc., M.Sc.
Research experience	:	8 Years

2. Publication of Research Papers:

UGC listed journals	:	14
Peer reviewed journals	:	02
Non-peer reviewed journals	:	--
Conference proceedings	:	--

3. List of Publication of Research Papers:

1. **V.S. Kamble**, R.K. Zemase, R.H. Gupta, B.D. Aghav, S.A. Shaikh, J.M. Pawara, S.K. Patil, S.T. Salunkhe Improved toxic NO₂ gas sensing response of Cu-doped ZnO thin-film sensors derived by simple co-precipitation route, *Optical Materials*, 131, 112706. (2022) (Elsevier, IF 3.7)

2. **V.S. Kamble**, Y.H. Navale, V.B. Patil, N.K. Desai, S.T. Salunkhe, "Enhanced NO₂ gas sensing performance of Ni-doped ZnO nanostructures" *J. Mater. Sci. Mater. Electron.*, 32, 2219–2233, (2021). (Springer, IF 2.4)
3. **V.S. Kamble**, Y.H. Navale, V.B. Patil, N.K. Desai, S.N. Vajekar, **S.T. Salunkhe**, "Studies on structural, spectral and morphological properties of co-precipitation derived Co doped ZnO nano capsules for NO₂ sensing applications" *J. Mater. Sci. Mater. Electron.*, 32, 26503-26519. (2021) (Springer, IF 2.4)
4. **V.S. Kamble**, N.K. Desai, S.T. Salunkhe, "Fabrication of ZnO nanostructured sensor by co-precipitation technique for NO₂ gas detection", *Int. J. Grid Distrib. Comput.*, 13(2), 67-84, (2020)
5. **V.S. Kamble**, B.D. Aghav J.M. Pawara and S.T. Salunkhe, *Educreator Research Journal*, Physico-chemical investigation of drinking water samples of adjacent villages of Panvel, Vol. IX, 230-234, (2022)
6. B.D. Aghav, **V.S. Kamble***, S.A. Shaikh, J.M. Pawara and S.T. Salunkhe, X-Ray Diffraction Studies for the Determination of Crystallite Size of ZnO Nanoparticles: Scherrer Formula and Williamson-Hall Plot Approach, *Indian Journal of Natural Sciences*, Vol.13, Issue 73, 46466-46470, (2022).
7. S.A. Shaikh, **V.S. Kamble**, R.H. Gupta, A.G. Awale, S.T. Salunkhe, B.D. Aghav, Bimetallic CoCeO₂ oxide nanoparticles: An efficient and reusable heterogeneous catalyst for synthesis of 2-amino-3-cyano-4H-pyran derivatives, *Journal of Heterocyclic Chemistry*, 60:1004–1013, (2023). (Wiley, IF 2.03)
8. S.A. Shaikh, **V.S. Kamble**, S.T. Salunkhe, S.K. Patil, and B.D. Aghav* Efficient Synthesis of Xanthenediones Using CuCeO₂ Nanoparticle Catalyst in Aqueous Medium, *Organic Preparations and Procedures International* (2023). (Taylor and Francis, IF 1.18)
9. S.A. Shaikh, **V.S. Kamble**, S.T. Salunkhe, B.D. Aghav*, Microwave-assisted synthesis of xanthene derivatives using CeO₂ nanoparticles as an efficient catalyst in an aqueous media *Russian Journal of Organic Chemistry*, (2022). (Springer, IF 0.86).

10. J.M. Pawara, S.S. Patil, **V.S. Kamble**, "A newer method developed for the synthesis of diferuloyl methane and its derivatives", *Inter. J. Advanced Research*, 332-337, 9(02), (2021).
11. J Digambar Patil, **Jitendra Pawara**, Bhimarao Patil, Vishal Kamble Antibacterial detection of some synthesized cerium (III) metal mixed ligand complexes along with their physicochemical, spectral and thermal study. *Shodhsamhita*, Volume 9, Issue 6 (3), (2022).
12. Asmitak A. Bhagat, Sunil S. Patil, Bhushan P. Langi, **Vishal S. Kamble**, Digambar K. Patil, Jitendra M. Pawara*, Physicochemical, Thermal, Spectral and Biological investigation of Mixed Ligand Lanthanum Complexes, *Indian Journal of Natural Sciences*, 0976-0997, 45164-45173, (2022).
13. Sunil S. Patil **Vishal S. Kamble**, Digambar K. Patil, Jitendra M. Pawara*, Synthesis of Metal Oxide Nanoparticles by Thermal Decomposition of a Ni (II) Complex and its Antimicrobial Activity, *Malaysian Journal of Chemistry*, 2550-1658 125-131, (2022).
14. Jitendra Pawara, **Vishal Kamble**, Hrushikesh Devkar, Bhimarao Patil, Digambar Patil, Synthesis and Characterization of cerium metalmixed ligand complexes and their antibacterial investigation, *Bulletin of environment pharmacology and life sciences*, (2023) (Accepted)
15. V.N. Pawar, **V.S. Kamble**, S.T. Salunkhe, J.M. Pawara, S.K. Patil, G.U. Patil, S.S. Kamble*, The impact of air pollution on solar energy generation in the Panvel-Navi Mumbai region, *Indian Journal of Natural Sciences*, (2023)
16. Sunil. S. Patil, Saipraasad Patil, Digambar K. Patil, **Vishal S. Kamble**, Jitendra M. Pawara, Synthesis, Spectral and Thermal Studies of Mixed Ligand Yt (III) Complexes and Their Biological Investigation. *Indian Journal of Natural Sciences* (2023)

4. Books authored:

National Publisher	:	04
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5. List of Books authored: --

- Basic Principles in Physical Chemistry F.Y.B.Sc. Sheth publication.
- Physical Chemistry, T.Y.B.Sc. Semester V & VI, Sheth publication.

- Drugs, T.Y.B.Sc. Semester V & VI, Sheth publication.
- Dye, T.Y.B.Sc. Semester V & VI, Sheth publication.

6. Academic Staff College Orientation/Refresher courses attended:

Name of the Course	Place	Duration	Sponsoring Agency
Orientation Course	IISER Pune	1 Month	UGC, New Delhi
Refresher Course	Online (Swayam Arpit)	4 Month	Govt. of India, Ministry of Human Recourse Development
Faculty development Program	Online	2 weeks	Govt. of India, Ministry of Human Recourse Development
Faculty development Program	Online	1 weeks	Govt. of India, Ministry of Human Recourse Development
Faculty development Program	Online	1 weeks	Govt. of India, Ministry of Human Recourse Development
Refresher Course	Online (PMMMNMTT scheme)	2 weeks	Govt. of India, Ministry of Human Recourse Development

7. Participation in conferences, symposia, seminars and workshops:

Level	Presented paper	Only attended
International	04	01
National	02	--

- **Paper presented in Conferences, Web conferences and seminars**
- Presented paper on "Co-precipitation grown nickel doped ZnO nanostructures: NO₂ sensing abilities" in National Conference on "Recent Innovations and Concerns of Green Chemistry towards Sustainability" organized by Department of Chemistry, Changu Kana Thakur Arts, Commerce and Science College New Panvel (Autonomous), New Panvel. **(February 2020)**

- Presented paper on "NO₂ sensing abilities of cobalt doped ZnO thin films prepared by co-precipitation method" in National Conference on "Disruptive Technology in Shaping the Features with New Innovations" organized by Karmaveer Bhaurao Patil College Vashi, Mumbai. **(March 2020)**
- Presented paper on "Synthesis of ZnO nanostructure by co-precipitation method for NO₂ gas sensor" at International Web Conference on "Science, Engineering and Technology" (IWCSET-2020) organized by Society for Technologically Advanced materials (STAMI), Nagpur. **(May 2020)**
- Presented paper on "Co doped sensor grown by co-precipitation technique for NO₂ sensing application" in International Web Conference on "Advanced Material Science and Nanotechnology" (NANOMAT 2020) organized by Department of Physics, Vinayak Vidyan Mahavidyalay Nandgaon Khandeshwar, Amaravati. **(June 2020)**
- Presented paper on "Fabrication of ZnO nanostructured sensor by co-precipitation technique for NO₂ gas detection" in 2nd International Conference on "Empirical and Theoretical Research" (ICETR-2020 online) organized by International board for education, Research and Development Mumbai. **(June 2020)**
- Presented paper on "Application of sensors in detection of hazardous gases". at Web Conference on "Covid 19: Perspective of Sciences and challenges" organized by Siddharth college of Arts, Commerce and Science, Fort Mumbai. **(June 2020)**

Participated in Conferences, Web conferences and seminars

- Participated at international webinar on "Interdisciplinary Scientific research: Status and Opportunities" at Karmaveer Bhaurao Patil College Vashi, Mumbai. **(May 2020)**

8. Experience on the various committees at the college

- International linkage committee 03 years (Co-ordinator)
- Placement Cell (03 years) (Chairman)
- Biogas Plant, 3 Years (Co-ordinator)
- Effluent Treatment Plant (ETP), 3 Years (Co-ordinator)
- Placement Cell, 2 Years (Member)

- Examination committee 03 year (Member)
- Board of Studies in Chemistry 04 years (Member)
- T.Y.B.Sc. Class Teacher (6 Years)

9. Experience on the NAAC/ IQAC of the college

- Internal Quality Assurance Cell (IQAC) committee 04 years (Member)
- Display board committee 01 year (Chairman)

10. Awards/recognitions received:

Level	Title	Year	Awarding agency
International	Best paper presentation award	2020	International Board for Education, Research and Development (IBERD) Mumbai.