

Curriculum vitae

Name : **Dr. Sushama R. Katade**

Designation : Associate Professor in Chemistry

Name of Organization : Progressive Education Society's, Modern College & Arts, Science and Commerce (Autonomous), Ganeshkhind, Pune-16

Date of Birth : 02/10/1071

Email/Mob.No. : sushmarkatade@gmail.com
sushmakatade@moderncollegegk.org
(7028865297)

➤ Academic Background

2007: Ph.D. (Chemistry), Pune University.

1999: Post Graduate Diploma in Analytical Chemistry, from B. V. Bhide Foundation, S. P. College, Pune-30.

1995: B.Ed. from Amravati University, Amravati.

1994: M.Sc. (Organic Chemistry), secured 63.6% from Amravati University, Amravati.

1992: B.Sc. (Math, Physics, Chemistry), secured 62.00% from Amravati University, Amravati.

➤ Career

01/01/2009 to Till date: **Assistant professor** (Permanent basis), Modern College of Arts, Science and Commerce, Ganeshkhind, Pune-411016 affiliated to Savitibai Phule Pune University, Pune. (Approval letter CCO/1781 dated 11/02/2011 & CCO/935 dated 25/05/2017)

01/07/2008 to 31/12/2008: **Assistant professor** (ad-hoc basis) Modern College of Arts, Science and Commerce, Ganeshkhind, Pune-411016 affiliated to Savitibai Phule Pune University, Pune.

02/10/2000 to 09/01/2007: **Ph. D.** at Department of Chemistry, Sir Pershurambhau College, Pune-411030.

01/09/2000 to 30/04/2004: **Project Assistant** on a Project "Compound Synthesis" Sponsored by NCL, Pune at Late Prin B.V. Bhide Foundation, Sir Pershurambhau College, Pune-411030.

02/01/1999 to 30/04/1999: **Lecturer** (ad-hoc basis) at Vishwakarma Institute of Technology (VIT), Affiliated to Pune University, Pune.

02/10/1996 to 15/03/1998: **Lecturer** (ad-hoc basis) at Ekalavya Shikhan Sanstha's Polytechnic, Pune.

➤ Awards and Reorganization

- 2013:** Recognized as **Ph.D. Guide** of Savitribai Phule Pune University, Pune.
- 2009:** Recognized as **P.G. Teacher and M.Phil Guide** of Savitribai Phule Pune University, Pune.
- 2012:** Awarded **Certificate of Achievement** on successfully facilitating Rio=20 India Certification Programm as in the role of Co-ordinator, Modern College of A.S. C. organized by United Nation Conference on Sustainable Development.
- 2006:** Research paper selected for **S. R. Yadav award** at international seminar held at Agharkar Research Institute, Pune on “XVI Annual Conference of IAAT & International Seminar on Present Trends and Future Prospects of Angiosperm Taxonomy” held at MACS-Agharkar Research Institute, Pune, India on Oct 4-6, 2006.
- 1998:** **Best teacher** award at *Ekalavya Shikshan Sanatha's* Polytechnique College, Pune.

➤ Research Project implemented

Sr. No.	Tital of the Project	Year and Amount	Funding Agency	Collaboration
1.	Determination of Bioactivity of some indigenous plants from Maharashtra.	2012-14, 1,70000/-	University Grand Commission (implemented)	National Chemical Laboratory
2.	Synthesis and Characterization of Pyrazole Derivatives.	2016-18, 1,90000/-	BCUD, Savitibai Phule Pune University, Pune	Nil

- **Research work Supervision:** M. Phil (01), Ph.D. (02) Awarded, Working (03)
- **M.Sc. Projects:** Since 2008 to till date, 25 students completed.
- **Area of Interest:** Natural Product chemistry, synthetic chemistry, nitrogen, oxygen, sulfur heterocyclic compounds.
- **Patent:** (Application Number: 202321030473, Date of Filing: 27/04/2023, Date of Published: 09/06/2023)
- **Consultancy:**
1. 2017-19: (As a technical consultant on retainership basis at Star Laboratory)
- **Membership**
1. Life member of Marathi Vidyan Parishad, Pune Division.

2. Life member of Indian Women Science Association (IWSA)
3. Member of Asian Journal of Chemistry in 2004, 05 and 06.
4. Member of Indian Council of Chemistry (ICC) in 2010, 11 and 12.

➤ **College functions:**

2024:	Academic Research Co-ordinator
2023:	Nodal officer NIRF
2017:	Coordinator, “Science Academies Refresher Course in Chemistry” -(27 th Nov.-11 th Dec 2018)
2015 to till date:	Coordinator EVS of Science Stream
In 2015:	Coordinator of NET-SET Workshop
2016 to 2017:	Member in NAAC Committee (Criteria-III)
2012 to 2017:	Member College Research Committee
2009 to 2013:	Member Akansha Magazine
In 2013:	Coordinator of Disaster Management workshop

➤ **Program organized/Co-Ordinator:**

1. Conducted Three Days National Conference of 43rd Indian Council of Chemistry during 26/12/2024 to 28/12/2024 at Modern College of Arts, Science and Commerce, Ganeshkhind, Pune.
2. Conducted Seven Days Faculty Development Program during 25/11/2019 to 01/12/2019 at Modern College of Arts, Science and Commerce, Ganeshkhind, Pune, under approved and Sanctioned by the TLC, SPPU funding scheme for academic year 2019-20.
3. Conducted Science Academies’ Refresher Course in Chemistry” during 27/11/2017 to 11/12/2017 at Modern College of Arts, Science and Commerce, Ganeshkhind, Pune, organized by Indian Academy of Sciences, Banaluru, Indian National Science Academy, New Delhi, The National Academy of sciences, India,

➤ **Resource Person/ Guest Lecture:**

1. As a Resource Person of “International Conference on Frontiers in Life Sciences” at Prof. Ramakrishna More Arts, Commerce & Science College, Akurdi Pune on 18th and 19th January 2018.
2. As a guest Lecture “Stereochemistry” on Tuesday 12th Sept. 2017 at Prof. Ramakrishna More Arts, Commerce & Science College, Akurdi Pune.

➤ **Refresher/Orientation/Training Programme**

11/03/2026 to 19/03/2026	:	Completed UGC-FDP on NEP-2020: Orientation & Sensitization (Online) with A ⁺ and Awarded 2 credits as per the NCrf
07/08/2023 to 11/08/2023	:	Completed ISTE approved One-week Online Faculty Development Programm on “Advances in Green Technology and Future Opportunities” organized by Dr. D.Y. Patil Institute of Engineering, Management and Research, Akurdi, Pune
01/01/2023 to 01/04/2023	:	Completed 12-week NPTL Online Certification Course on Research Methodology in Natural Sciences Jan-April 2023
04/07/2022 to 09/07/2022	:	One-week workshop on “NATIONAL EDUCATION POLICY: NEW ENGAGEMENTS”
21/06/2017 to 05/07/2017	:	Science Academies’ Refresher Course in General Chemistry organized by Indian Academy of Sciences, Banaluru, Indian National Science Academy, New Delhi, The National Academy of sciences, India, Allahabad In Collaboration with Dayanand Science College, Latur.
01/12/2014 to 21/12/2014	:	Refresher course in Chemistry conducted Department of Chemistry, Savitibai Phule Pune University, Pune.
08/09/2014to 12/09/2014	:	International Training on Leadership & Career Development for Women Science & Technologists organized by Govt of India DST, Indo-US Science and Technology Forum COACH USA.
12/02/2013 to 22/02/2013	:	Women Scientist Training Programme on “ Biodiversity Conservation ” Program organized by DST-WII Deharadun India.
02/12/2011 to 29/12/2011	:	General orientation Programme organized by UGC Academic staff College, Pune University, Pune.

➤ Research Publications

1. Shinde, A.S., Rasale, S.P. and **Katade, S.R.** Evaluation of the bioactive constituent and antimicrobial efficacy of successive solvent extracts of *Balanites aegyptiaca* (L.) De YMER || ISSN : 0044-04771 VOLUME 25 : ISSUE 03 (Mar) - **2026**
2. Shinde, A.S., Ingole, V.V., Rasale, S.P. and **Katade, S.R.** *Balanites aegyptiaca* (L.) Delile: A review of its traditional uses, phytochemistry and biological activities. *Phytomedicine Plus*, p.100848. **2025**
3. Kawade, M., Ingole, V., Shaikh, S. and **Katade, S.**, Study on Extraction, Isolation, Characterization, And Biological Activities of A Pure Compound From *Entada Rheedei*. YMER: ISSN : 0044-0477, VOLUME 24 : ISSUE 05 (May) - **2025**
4. Ingole, V.V., Mhaske, P.C., Shaikh, S.B. and **Katade, S.R.**, A new coumarin from *Tridax procumbens* L. as potential anticancer, antibacterial, antioxidant agent and its molecular docking study. *Natural Product Research*, pp.1-7. **2025**
5. Ingole, V.V., **Katade, S.R.**, Mhaske, P.C. and Shaikh, S.B., A New Saponin from *Tridax procumbens* L.: In Vitro and in Silico Studies Reveal Broad Spectrum of Bioactivities. *Chemistry & Biodiversity*, 22(12), p.e01842. **2025**.
6. M. B. Kawade, S. P. Rasale and **S Katade**, “Extraction, Characterization, And Evaluation of Medicinal Properties of Natural Compounds from *Entada rheedei*: A Comprehensive Review” *African Journal of Biomedical Research*, 28(1S), pp. 2230–2246. **(2025)** [doi:10.53555/AJBR.v28i1S.6655](https://doi.org/10.53555/AJBR.v28i1S.6655).
7. Kawade, M., Ingole, V., Shinde, A. and **Katade, S.**, Qualitative Phytochemical Screening and Metal Analysis of Some Selected Medicinal Plants. *SEEJPH* Volume XXVII, ISSN: 2197-5248; **2025**
8. Ingole, V.V. and Katade, S.R. Chemical composition, antioxidant, antibacterial activity of isolated oil and methanol extract of *Tridax procumbens* L. *Int J Pharm Sci Res*, 15(4), pp.1157-1166. **2024**
9. Nandurkar Y, Bhoje MR, Maliwal D, Pissurlenkar RR, Chavan A, **Katade S**, Mhaske PC. Synthesis, biological screening and in silico studies of new N-phenyl-4-(1, 3-diaryl-1H-pyrazol-4-yl) thiazol-2-amine derivatives as potential antifungal and antitubercular agents. *European Journal of Medicinal Chemistry*. **2023** Jun 7:115548.
10. Ingole VV, Mhaske PC, **Katade SR**. Phytochemistry and pharmacological aspects of *Tridax procumbens* (L.): a systematic and comprehensive review. *Phytomedicine Plus*. **2022** Feb 1;2(1):100199.
11. Swati R. Jadhav and **Sushma R. Katade*** “Pyrazoline Derivatives: Synthesis, Characterization and Antimicrobial Activities”, *International Journal of Research and Analytical Reviews*, Volume 6, Issue 1, 23-28. (E-ISSN 2348-1269, P- ISSN 2349-5138). **2019**
12. S. Archana, Nilam Tavhare and **SushmaR.Katade*** “Extraction of Starch from potato and corn source (maize) and to study the properties as indicator with the Laboratory starch”, *International Journal of Research and Analytical Reviews*, Volume 6, Issue 1, 2019, 55-57. (E-ISSN 23481269, P- ISSN 2349-5138)
13. Swati R. Jadhav, Manoj Gayake and **Susham R. Katade***, “Synthesis of series of chalcone and pyrazoline derivatives”, *The Pharma Innovation Journal*, 7(1) 2018, pg 223-225, ISSN €:2277-7695, ISSN (P): 2349-8242. NAAS Rating:5.03

14. Swati Jadhav and **Sushma R. Katade***, "Synthesis and Characterization of 2-pyrazoline Derivatives from α , β -unsaturated ketone" *IJBAT, Special Issue (2)*, Vol-V, July 2017, pg 361-664, ISSN No 2347-517X(Online)
15. **Sushma R. Katade***, Pushpa Pawar, "National Conference on Faunal Diversity: Assessment and Conservation, 2016, pg.102-105, ISBN: 978-81-928564-2-1.
16. **Sushma R. Katade***, Usha Phalgune, R.D. Wakharkar and Nirmala Deshpande, "Isolation and Characterization of co-steroid from *S. guttata*", Proceeding of National Conference on Frontiers in Physical, Chemical and Biological Sciences" published in Environment observer, vol.13, oct.2013. ISSN 2322-5997.
17. **Katade Sushama***, A. B. Misar, A. M. Mujumdar, U.D. Phalgune, R. D. Wakharkar & N. R. Deshpande. "CNS depressant activity of ethanol extract of *Sterculia guttata* in mice". *Indian Journal of Pharmaceutical Sciences*, 2009, July-August, 445-447. Impact Factor 0.69
18. **Katade Sushama***, Usha Phalgune, S. Biswas, R. D. wakharkar & N. R. Deshpande. Microwave studies on synthesis of biologically active chalcone derivatives. *Indian Journal of Chemistry*, 2008, 47B, 927-931. Citation index:- ISSN: 0376-4699 (Science Citation Index) Impact factor: 0.346
19. **Katade Sushama***, Deshmukh M. R., Phalgune U., Biswas S., and N. R. Deshpande. Isolation of straight chain alcohol and ester from *Sterculia guttata*; *Asian Journal of Chemistry*, 2008, 19, 308-312. Citation index:- ISSN: 0970-7077 (Science Citation Index) Impact factor: 0.465
20. **Katade Sushama***, A.V. Mi, Phalgune U., S. Biswas, and N. R. Deshpande. Screening of *Sterculia guttata* Seeds along with Extraction and Characterization of Seed Oil. *Asian Journal of Chemistry*, 2008, 19, 357-360. Citation index:- ISSN: 0970-7077 (SCI) Impact factor: 0.465
21. **Katade Sushama R***, P.V. Pawar, R. D. Wakharkar and N. R. Deshpande. *Sterculia guttata* seeds extractives-An effective mosquito larvicide. *Indian Journal of Experimental Biology*, 2006, 44, 662. Citation index:- ISSN: 0019-5189 (SCI) Impact Factor 0.70
22. **Katade Sushama R.**, P.V. Pawar, V. B. Tungikar, A.S. Tambe, K. M. Kalal, R.D. Wakharkar, and N. R. Deshpande. Larvicidal Activity of Bis(2-ethyl hexyl) Benzene-1,2-dicarboxylate from *Sterculia guttata* Seeds Against Two Mosquito Species; *Chemistry and Biodiversity (Verlag Helvetica Chemica Acta)*, 2006, 3, 49. Citation index:- ISSN: 1612-1872 (S *Indian Journal of Experimental Biology*, 2006, CI) Impact factor 0.65
23. **Katade Sushama R.**, M. R. Deshmukh, S.M. Shah and N. R. Deshpande. Study of Carbohydrates from the seeds, Leaves and Kernel in *Sterculia guttata* -Kokrus. *Asian Journal of Chemistry*, 2005, 17(2), 2. Citation index:- ISSN: 0970-7077 (SCI) Impact factor: 0.465
24. Shah S. M., **Sushama R. Katade**, M. R. Deshmukh and N. R. Deshpande. Analysis of Carbohydrates from *Ficus benghalensis*". *Asian Journal of Chemistry*, 2005, 16(4), 1937. Citation index:- ISSN: 0970-7077 (SCI) Impact factor: 0.465
25. Shah S. M., **Sushama R. Katade**, M. R. Deshmukh, M. A. Pendse, S.S. Naik and N. R. Deshpande; Estimation of proteins and detection of free amino acids from *Ficus benghalensis* Linn. *Asian Journal of Chemistry*, 2005, 17. Citation index:- ISSN: 0970-7077 (SCI) Impact factor: 0.465

26. **Katade Sushama R.**, M. R. Deshmukh, S. M. Shah and N. R., Deshpande. Mineral Elements of Seeds, Leaves and Kernel in *Sterculia guttata* – Kokrus. *Asian Journal of Chemistry*, 2004, 16(3), 1475-1478. Citation index:- ISSN: 0970-7077 (SCI) Impact factor: 0.465
27. Deshmukh M. R., S. M. Shah, **Sushama R. Katade**, A. A. Belhekar, R. V. Kashalkar and N. R. Deshpande. Removal of Methylene blue and malachite green by agricultural waste material stalk of *Cajanus cajan*; *Asian Journal of Chemistry*, 2004, 16(4), 1863. Citation index:- ISSN: 0970-7077 (SCI) Impact factor: 0.465
28. Shah S. M., **Sushama R. Katade**, M. R. Deshmukh, and N. R. Deshpande. A rich source of stimulating nutrients such as potassium and phosphorus- *Ficus benghalensis*. *International Journal of Chemical Sciences*, 2004, 2(4), 662-626. Citation index:- ISSN: 0972-768X (SCIE) Impact factor: 0.745

➤ **Conferences/Workshop/Seminar.Webinar**

1. Paper Presented in XXXXII Annual National Conference Indian Council of Chemist held at Department of Pure & Applied Chemistry, University of Kota, Kota - 324 005 (Rajasthan) on **20-22 December 2023**.
2. Participation in the Virtual Training Program on “Intellectual Property Rights for Academics & Research” organize by PES, Modern College of Asc, Ganeshkhind, Pune-**16 on 11th July 2023**.
3. Participated in 2 Days Training Program on “Cheminformatics & Its Application in Research & Drug Industry” held on **18th& 19th April 2022** organized by Makeintern & E-Cell IIT Kharagpur at R. M. College Akurdi, Pune.
4. Participated in Two days teacher training program on” Designing interactive virtual chemistry practical using power point” jointly organized by BOS, SPPU, Pune and Department of Chemistry, PDEA’s Ramkrishna Kore ACS college Akurdi, Pune-44 on **7th and 8th may 2021**.
5. Participated in national webinar on” Achieving Excellence in Higher Education In India In the 21st century: Challenges and Opportunities” on **3rd June2020** organised by School of Bussiness Studies & IQAC, Sharda University.
6. Participated in national online National Online Seminar on “Creation of MOOCs” held on **27th April 2020**.
7. Participated in The Regional Research Conference on “INNOVATION-2017” for Savitribai Phule Pune University, University Research Cell conducted by C. T. Bora College, Shirur, on **21st Nov. 2017**.
8. Participated in The Regional Research Conference on “INNOVATION-16” for Savitribai Phule Pune University college teachers in chemistry conducted by baburaoji Gholap College,Pune, on **7th Oct. 2016**.
9. Participated in the competition on “Innovative Models for Effective Teaching” held at Department of Chemistry, Savitribai Phule Pune University, on **28th Feb. 2016**.
10. Participated in One day Workshop on “Scientific Writing for Teachers” conducted by Modern College of A.S.C., Ganeshkhind, Pune-16, on **21st Feb. 2015**.
11. Participated as Co-ordinator on Workshop on “NET and SET Examination” organized by Dept. of Chemistry, Modern College of ASC, Ganeshkhind, Pune-16. On **9th -11th March 2015**.

12. Attended the Syllabus Restructuring workshop in Chemistry” held at Department of Chemistry, University of Pune, Pune, on **10th April 2014**.
13. Attended the One-day Workshop on IISER Pune – RSC workshop on Innovations in Teaching Seminar **5th April 2011**.
14. Paper presented in the national conference on “XXIX Annual Conference Indian Council of Chemists”, at Department of Chemistry, Punjab University, Chandigarh, on **19th and 21st Dec. 2010**
15. Poster presentation in International conference on “Emerging Trends in Chemistry” organized by Department of Chemistry, University of Pune from 5-7, **Jan 2010**.
16. Paper presented in the national conference on “Traditional Medicines” held by A.C.S. College, Narayangaon, Junner, Pune on **27th and 28th Feb. 2009**.
17. Attended the Three-day Workshop on “Modern Trends in Advanced Analytical Techniques” organized by Department of Chemistry, n. Wadia College, Pune-01 on **8-10, Jan 2008**.
18. Paper presented in “One day Seminar” held at S. P. College, pune, on **30th august 2007**.
19. Paper presented on “XVI Annual Conference of IAAT & International Seminar on Present Trends and Future Prospects of Angiosperm Taxonomy” held at MACS-Agharkar Research Institute, Pune, India on **Oct 4-6, 2006**.
20. Paper presented on "2nd World Ayurveda Congress & Arogya 2006” held at Pune, India University during **10th to 12th Nov. 2006**.
21. The seminar on “Tritiya Akhil Bhartiya Vigyan Sammelan, CSIR Delhi, held on **19-21, 2004**.
22. 4th International Seminar on “Ayurvedic Education, Research & Drug Standardization”, A Global Perspective at Gujarat Ayurved University, Jamnagar, held on **January 5-7, 2003**.
23. The National Symposium on “Recent Advances in Management of Plant Diseases, Technology Development And Applications” organized by Indian Phytopathological Society (WZ) & Dept. of Botany, PGRC, Modern College, Pune-411005 on **21st Dec 2003**.
24. The National Symposium on “Plant Biodiversity and Biotechnology” at Osmania university, Hyderabad held on **13th and 14th November 1999**.