



Profile of the Faculty

1. General Information:

Name of the Faculty	:	Dr. Shailesh Namdev Vajekar
Name of the Department	:	Chemistry
Educational Qualifications	:	M.Sc., Ph.D., NET(CSIR-JRF), SET
Present Position	:	Associate Professor
Address for Correspondence	:	At-Valavali, Post-Padaghe, Tal-Panvel, 410208
E-mail	:	shaileshchem81@gmail.com shaileshvajekar@ckthakurcollege.net
Contact Number	:	9867296850
Specialization	:	Organic Chemistry
Total teaching experience	:	21 Years
Courses taught	:	1. M.Sc. Part-1 Organic Chemistry 2. M.Sc. Part-2 Organic Chemistry 3. T.Y.B.Sc. - Organic Chemistry 4. T.Y.B.Sc. - Physical Chemistry 5. T.Y.B.Sc. - Analytical Chemistry 6. T.Y.B.Sc. - Inorganic Chemistry 7. T.Y.B.Sc. - Drugs and Dyes 8. S.Y.B.Sc. - Organic Chemistry 9. S.Y.B.Sc. - Physical Chemistry 10. S.Y.B.Sc. - Inorganic Chemistry 11. S.Y.B.Sc. - Industrial Chemistry 12. F.Y.B.Sc. - Organic Chemistry 13. F.Y.B.Sc. - Inorganic Chemistry
Research experience	:	14 Years
Number of students registered for Ph.D. degree	:	04

2. Academic Qualifications:

Sr. No.	Degree/ Qualification	Name of the Institution	Month and Year of Passing	Remark
1	B.Sc. (Chemistry)	Mahatma Phule A.S.C. College, Panvel (University of Mumbai)	March - 2002	First Rank (Boys)
2	M.Sc. (Organic Chemistry)	Ruparel College, Mumbai (University of Mumbai)	March - 2004	First Rank (Overall)
3	NET (CSIR-JRF)	UGC-CSIR	December - 2004	Qualified
4	SET	UGC (Pune University)	September - 2009	Qualified
5	MS-CIT	Maharashtra State Board of Technical Education & M.K.C.L.	November - 2018	First class

3. Research Degree

Sr. No.	Research Degree	Title	Date of Award	Name of University
1	Ph.D. (Science) in the subject of Chemistry	Greener Synthesis of Novel Functional Colorants and Heterocyclic Compounds for High-Tech Applications	November 12, 2020	Institute of Chemical Technology, Mumbai

4. Details of publications

Sr. No	Nature of Publication	Name of the Book/Title of Research Paper	Name of the Publishers/ Journal	List of Author/s	Issue No.	Year of Publication	Page Nos.	ISSN / ISBN number
1	Patent (Design)	AI based device for the isolation of Microbes	The Patent Office, Govt. of India	Dr. Shailesh Vajekar, Mr. Ganesh Sathe, Dr. Samadhan Waghmode,	42838 6- 001	August 2024	--	--

2	Patent (Design)	Smart Stand for Labware	The Patent Office, Govt. of India	Jyoti Popat Dere, Vishal Arun Naik, Shailesh N. Vajekar.	464433-001	December 2025	--	--
3	Research Paper	Choline hydroxide promoted sustainable one-pot three-component synthesis of 1H-pyrazolo[1,2-a]pyridazine-2-carbonitriles under solvent-free conditions.	An International Journal for Rapid Communication of Synthetic Organic Chemistry	Vajekar, S. N. Shankarling, G. S.	50 (8),	March 2020	1147-1158.	Print ISSN: 0039-7911 Online ISSN: 1532-2432
4	Research Paper	Highly efficient green synthesis of the photochromic spironaphthoxazines using an eco-friendly choline hydroxide catalyst.	An International Journal for Rapid Communication of Synthetic Organic Chemistry	Vajekar, S. N. Shankarling, G. S.	50 (3)	November 2019	338-347	Print ISSN: 0039-7911 Online ISSN: 1532-2432
5	Research Paper	Application of Fe ₃ O ₄ @silica sulfuric acid as a magnetic nanocatalyst for the synthesis of rhodamine derivatives.	Chemistry Select	Vajekar, S. N. Shankarling, G. S.	3 (21)	June 2018	5848-5852	Print ISSN: 2365-6549 Online ISSN: 2365-6549
6	Research Paper	Greener route for the synthesis of photo- and thermochromic spiropyran using a highly efficient, reusable, and biocompatible choline hydroxide in an aqueous medium.	An International Journal for Rapid Communication of Synthetic Organic Chemistry	Vajekar, S. N. Pargaonkar J. G.; Patil, S. K.	48 (2)	December 2017	208-215	Print ISSN: 0039-7911 Online ISSN: 1532-2432

7	Research Paper	Application of Fe ₃ O ₄ as a magnetic nanocatalyst in the synthesis of photochromic spironaphthoxazines.	Research Journal of Chemistry and Environment	Vajekar, S. N. Pargaonkar J. G.; Patil, S. K.	24 (6)	June 2020	61-69	E-ISSN 2321-1040
8	Research Paper	Studies on structural, spectral and morphological properties of coprecipitation derived Co doped ZnO nanocapsules for NO ₂ sensing applications	Journal of Materials Science: Materials in Electronics	Vajekar, S.N., V.S. Kamble, S.T. Salunkhe	32	September 2021	26503-519	Electronic ISSN 1573-482X Print ISSN 0957-4522
9	Research Paper	Metal nanoparticles: Ligand-free approach towards coupling reactions	Current Chinese Science	Vajekar, S.N., A.B. Patil, Sharwari K. Mengane	2	February 2022	7-37	ISSN 2210-2981 (Print); ISSN 2210-2914 (Online)
10	Research Paper	Adsorption and Kinetic study of priority organic pollutant phenol from aqueous waste using Activated carbon	Journal of Advanced Zoology	Shailesh Vajekar, Omkar Shembekar, Sapana Chilate, V.S. Kamble	44	December 2023	1-05	ISSN: 0253-7214
11	Research Paper	Adsorption of Congo red dye from wastewater using carbon-based materials: a Comparative study	Urban India	Shailesh Vajekar, Sapana Chilate, V.S. Kamble	43(2)	December 2023	245-249	ISSN: 0970-9045
12	Research Paper	Removal study of malachite green dye from aqueous media on activated carbon	Urban India	Shailesh Vajekar, Omkar Shembekar, Sapana	43(2)	December 2023	304-312	ISSN: 0970-9045

		by Surfactant modification		Chilate, J.M.Pawara				
13	Research Paper	Synthesis and Characterization of ZnO Nanostructured Sensors via Co-Precipitation: A Comprehensive Study for Toxic H ₂ S Gas Detection	Indian Journal of Natural Sciences	Shailesh N. Vajekar , Jyotsna G. Pargaonkar and Suresh T. Salunkhe Vishal S. Kamble, Sanjay K. Patil	15(83)	April 2024	72507-72514	ISSN: 0976 – 0997
14	Research Paper	A study of the Preparation of ZnO NPs from Various Parts of the plant	International Multidisciplinary e-Journal	Shailesh N. Vajekar , Vinayak D. Thakur	13(5)	May 2024	426-432	ISSN: 2277-4262
15	Book	Physical Chemistry F.Y.B.Sc.	Sheth Publishers Pvt. Ltd., Mumbai	Shailesh N. Vajekar & Others		2019-20		ISBN : 978-81-941207-3-5
16	Book	Inorganic Chemistry F.Y.B.Sc.	Sheth Publishers Pvt. Ltd., Mumbai	Shailesh N. Vajekar & Others		2019-20		ISBN : 978-81-941207-2-8
17	Book	Organic Chemistry F.Y.B.Sc.	Sheth Publishers Pvt. Ltd., Mumbai	Shailesh N. Vajekar & Others		2019-20		ISBN : 978-81-941207-1-1
18	Book	Physical Chemistry T.Y.B.Sc.	Sheth Publishers Pvt. Ltd., Mumbai	Shailesh N. Vajekar & Others		2023-24		978-93-5902-145-4
19	Book	Introduction of Synthetic Drugs T.Y.B.Sc.	Sheth Publishers Pvt. Ltd., Mumbai	Shailesh N. Vajekar & Others		2023-24		978-93-5902-074-7
20	Book	Introduction of Synthetic Dye T.Y.B.Sc.	Sheth Publishers Pvt. Ltd., Mumbai	Shailesh N. Vajekar & Others		2023-24		978-93-5902-081-5

5. Minor Research Project Completed:

Title of the project	Date of sanction	Duration	Grant received	Funding agency
Fe ₃ O ₄ @Silica Sulfuric Acid Nanocatalyst Promoted One- Pot, Three- Component Greener Route to Novel 1H- Pyridazino [1,2-a] Indazoletriones Under Solvent-Free Conditions	10/10/2020	2 Years	1 Lakh	Rashtriya Uchchar Shiksha Abhiyan

6. Papers Presented in Conferences, Seminars, Workshops, Symposia etc.

Sr. No.	Title of the Paper presented	Title of Conference/ Seminar	Date of the event	Organized by	Whether international/ national/ state/ regional college or university level
1.	Preparation of Fe ₃ O ₄ @SiO ₂ -SO ₃ H magnetic nanoparticles and Application of these magnetic nanoparticles	Nanotechnology and its applications	September 16-17, 2022	C.K. Thakur A.C.S. College, New Panvel	National
2.	Adsorption study on efficiency of carbon – based material for the removal of Congo red dye from aqueous media	Current emerging trends for Advancement in Commerce and Science at Global Level	December 8-9, 2023	Ramsheth Thakur College of Commerce & Science, Kharghar	International

3.	Choline hydroxide promoted efficient and environmentally benign organic synthesis	Recent Innovations and concerns of Green chemistry towards sustainability	February 17-18, 2020	C.K. Thakur A.C.S. College, New Panvel	National
4.	A unique Blend of Water, DES and Ultrasound for One-Pot Knorr Pyrazole Synthesis and Knoevenagel-Michael Addition Reaction	Interdisciplinary Conference On 'Recent Trends in Science'	March 8-9, 2019	J. S. M. College, Alibag, Raigad	International
5.	Reversible 'turn off' fluorescence response of Cu ²⁺ ions towards imidazolyl pyridinyl quinoline based chemosensor with visible colour change	Convention on Colorants - 2017 (COC 17)	February 9-10, 2017	Institute of Chemical Technology, Mumbai	International
6.	Simple and novel approach for high-speed visual detection of Cu ²⁺ ions using green synthesized chemosensor	Interdisciplinary Conference on Emerging Trends in Science	March 4, 2017	N.G. Acharya & D. K. Marathe College, Chembur, Mumbai	National
7.	Green Approach In Synthetic Chemistry	Green Approach In Synthetic Chemistry	February 27, 2017	Karmaveer Bhaurao Patil College, Vashi, Navi Mumbai	National
8	An environmentally benign, metal-free method for the oxidative halogenation of aromatic compounds employing reusable, highly effective graphene oxide	Material Science and Chemistry	October 5, 2024	Yogeshwari Mahavidyalaya, Ambajogai, Navi Mumbai	National

7. Any other relevant information:

- Raigad District Coordinator-NAAC (Assigned by Regional Joint Director, Konkan Region, Panvel)
- Life Member of Association of Chemistry Teachers since 22-12-2017
- Member of Society of Dyers and Colorists (SDC), UK (Year 2011)
- Awarded with Certificate of Appreciation by Society of Dyers and Colorists (SDC), UK for Successful conduct of SDC's 8th Annual International Conference - Colour Trends 2011 held on 3rd and 4th June, 2011 in Mumbai.
- Awarded with Certificate of Recognition and Excellence as part of Organizing team of the Chem-Careers India 2012 jointly organized by Institute of Chemical Technology, India and Royal Society of Chemistry, UK, held at ICT, Mumbai on 20th October 2012.

8. Experience on the various committees at the college

- Coordinator-RUSA (Rashtriya Uchchatar Shiksha Abhiyan)
- Coordinator-SWAYAM MOOCs
- Member-Governing Body
- Member Secretary-Academic Council
- Member-College Development Committee
- Member-Finance Committee
- Member-Internal Quality Assurance Cell (IQAC)
- Member-Board of Studies in Chemistry
- Coordinator- Scholarships Monitoring Committee
- Coordinator- Projects Monitoring Committee
- Member-Career Guidance, Placement and Counselling
- Member-Admission Committee
- Member-Cultural Committee
- Member-Health Centre
- Class teacher M.Sc. Part-1 Chemistry, M.Sc. Part-2 Organic Chemistry
- Member-Educational Visits Committee

9. Awards/recognitions received :

Level	Title	Year	Awarding agency
National	1st Rank in Oral Presentations in National Conference on 04 th March 2017 at Acharya and Marathe College, Chembur, Mumbai	2017	Acharya and Marathe College, Chembur, Mumbai
	2nd Rank in Oral Presentations in National Seminar on September 16-17, 2022 at Changu Kana Thakur A.C.S. College, New Panvel	2022	Changu Kana Thakur A.C.S. College, New Panvel
	2nd Rank in Oral Presentations in National Seminar on 22 nd December 2015 at Changu Kana Thakur A.C.S. College, New Panvel	2015	Changu Kana Thakur A.C.S. College, New Panvel
University	Ph.D. Guide in the Subject of Chemistry	2022	University of Mumbai

Community Services:

1. **Society Oriented Project through N.S.S. students (Anugoonj magazine)**

Title of Paper: Colorimetric Assay for Copper (II) ions in Animal milk stored or heated in Copper containers. Anugoonj, Issue-6 (2016-17) Printed ISSN 2348-9731

2. **Organizing Committee member of Yearly “Mega Medical Camp”** for the residents of Raigad District sponsored by Ramsheth Thakur Samajik Vikas Mandal, Panvel, Raigad

3. **Campus Development Committee** – Effluent Treatment Plant (ETP) & Biogas

4. **Convener** of one-day online workshop on “**NAAC Accreditation Process**” on Thursday, 21st May 2020 for the Principals and IQAC Coordinators of the all colleges in Raigad District organized by Changu Kana Thakur Arts, Commerce and Science College, New Panvel (Autonomous) under the aegis of **RUSA, Maharashtra** in collaboration with **Regional Joint Director, Higher Education, Konkan Region, Panvel**