



Profile of the Faculty

1. General Information:

Name of the Faculty	:	Dr. Shailesh 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, Po-Navade, Tal-Panvel, 410206
E-mail	:	shaileshchem81@gmail.com
Contact Number	:	9867296850
Specialization	:	Organic Chemistry
Total teaching experience	:	18 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	:	12 Years
Number of students registered for Ph.D. degree	:	04

2. Publication of Research Papers:

UGC listed journals	:	07
Peer reviewed journals	:	07

3. List of Publication of Research Papers:

1. **Vajekar, S. N.;** Shankarling, G. S. Choline hydroxide promoted sustainable one-pot three-component synthesis of 1H-pyrazolo[1,2-a]pyridazine-2-carbonitriles under solvent-free conditions. *Synthetic Communication*, **2020**, *50*(8), 1147-1158.
<https://doi.org/10.1080/00397911.2020.1720736>
2. **Vajekar, S. N.;** Shankarling, G. S. Highly efficient green synthesis of the photochromic spironaphthoxazines using an eco-friendly choline hydroxide catalyst. *Synthetic Communications*, **2020**, *50*(3), 338-347.
<https://doi.org/10.1080/00397911.2019.1694690>
3. **Vajekar, S. N.;** Shankarling, G. S. Application of Fe₃O₄@silica sulfuric acid as a magnetic nanocatalyst for the synthesis of rhodamine derivatives. *ChemistrySelect*, **2018**, *3* (21), 5848-5852.
<https://doi.org/10.1002/slct.201801127>
4. **Vajekar*, S. N.;** Pargaonkar J. G.; Patil, S. K. Greener route for the synthesis of photo- and thermochromic spiropyrans using a highly efficient, reusable, and biocompatible choline hydroxide in an aqueous medium. *Synthetic Communications*, **2018**, *48* (2), 208-215.
<https://doi.org/10.1080/00397911.2017.1395053>
5. **Vajekar*, S. N.;** Pargaonkar, J. G.; Patil A. B.; Patil, S. K. Application of Fe₃O₄ as a magnetic nanocatalyst in the synthesis of photochromic spironaphthoxazines. *Research Journal of Chemistry and Environment*, **2020**, *24* (6), 61-69.
https://www.researchgate.net/publication/341713247_Application_of_Fe_3_O_4_as_a_magnetic_nanocatalyst_in_the_synthesis_of_photochromic_spironaphthoxazines
6. **Vajekar, S.N.,** V.S. Kamble, S.T. Salunkhe. Studies on structural, spectral and morphological properties of co-precipitation derived Co doped ZnO nanocapsules for NO₂ sensing applications, *Journal of Materials Science: Materials in Electronics*, Springer Publication, **2021**, *32*, 26503-519.
<https://doi.org/10.1007/s10854-021-07027-6>
7. **Vajekar, S.N.,** A.B. Patil, Sharwari K. Mengane, Metal nanoparticles: Ligand-free approach towards coupling reactions, *Current Chinese Science*, **2022**, *2*, 7-37
[DOI: 10.2174/2210298101666210922144232](https://doi.org/10.2174/2210298101666210922144232)

4. Books authored:

National Publisher	:	06
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5. List of Books authored:

Sr. No.	Book title	Publisher	ISBN No.	No. of co-authors
01	Physical Chemistry F.Y.B.Sc.	Sheth Publishers Pvt. Ltd., Mumbai	978-81- 941207-3-5	06
02	Inorganic Chemistry F.Y.B.Sc.	Sheth Publishers Pvt. Ltd., Mumbai	978-81- 941207-2-8	06
03	Organic Chemistry F.Y.B.Sc.	Sheth Publishers Pvt. Ltd., Mumbai	978-81- 941207-1-1	04
04	Physical Chemistry T.Y.B.Sc.	Sheth Publishers Pvt. Ltd., Mumbai		06
05	Inorganic Chemistry T.Y.B.Sc.	Sheth Publishers Pvt. Ltd., Mumbai		06
06	Drugs T.Y.B.Sc.	Sheth Publishers Pvt. Ltd., Mumbai		06
07	Dyes T.Y.B.Sc.	Sheth Publishers Pvt. Ltd., Mumbai		06

6. 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 Uchchatar Shiksha Abhiyan

7. Membership:

1. Life Member of **Association of Chemistry Teachers** since 22-12-2017
2. Member of **Society of Dyers and Colorists (SDC), UK** (Year 2011)
3. 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.

4. 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. Consultancy service provided and Revenue generated:

9. Academic Staff College Orientation/Refresher courses attended:

Name of the Course	Place	Duration	Sponsoring Agency
Orientation Course	Academic Staff College, University of Mumbai	04-11-2008 to 02-12-2008	UGC
Refresher Course	Academic Staff College, University of Pune	12-09-2011 to 02-10-2011	UGC
Refresher Course	Human Resource Development Centre, University of Mumbai	19-10-2015 to 07-11-2015	UGC
Refresher Course	Indian Institute of Science, Karnataka	25-11-2017 to 15-12-2017	MHRD
Short Term Course	HRD Centre, University of Mumbai	11-02-2019 to 16-11-2019	UGC
Short Term Course	B. K. Birla College, Kalyan	12-12-2018 to 16-12-2018	RUSA
Short Term Course	SWAYAM-NPTEL (Online with E-Certification)	Feb-March 2019 (Four weeks)	MHRD

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

Level	Presented paper	Only attended	Resource person
International	3		
National	7		1
University		08	

11. Conferences, symposia, seminars and workshops organized as convener/co-convener:

Level	Convener
University	01

12. Experience on the various committees at the college

- Coordinator-**RUSA** (Rashtriya Uchcharat Shiksha Abhiyan)
- Coordinator-**SWAYAM MOOCs**
- Member-**Governing Body**
- Member Secretary-**Academic Council**
- Member-**College Development Committee**
- Member-**Finance Committee**
- Member-**Board of Studies in Chemistry**
- 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**

13. Experience on the NAAC/ IQAC of the college

- Raigad District Coordinator-**NAAC** (Assigned by Regional Joint Director, Konkan Region, Panvel)
- Member-**Internal Quality Assurance Cell (IQAC)**

14. Awards/recognitions received :

Level	Title	Year	Awarding agency
National	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
	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 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**