



## Profile of the Faculty

### 1. General Information:

Name of the Faculty	:	Dr. Jyotsna Shailesh Vajekar
Name of the Department	:	Chemistry
Educational Qualifications	:	M.Sc., Ph.D.
Present Designation	:	Assistant Professor
Address for Correspondence	:	Department of Chemistry, Changu Kana Thakur Arts, Commerce and Science College, New Panvel (Autonomous), Plot-No.01, Sector-11, Khanda Colony, New Panvel (W), Dist. Raigad, Maharashtra, India- 410206
E-mail	:	<a href="mailto:jyotsnapargaonkar@gmail.com">jyotsnapargaonkar@gmail.com</a>
Contact Number	:	(022) 27464193, (022) 27455760
Specialization	:	Organic Chemistry
Total teaching experience	:	16 Years
Courses taught	:	UG- Organic Chemistry, Inorganic Chemistry, Physical Chemistry, Analytical Chemistry, IKS PG- Photochemistry, Oxidation-reduction, Transition and rare earth metals in organic synthesis
Research experience	:	11 years

## 2. Publication of Research Papers:

Peer reviewed journals	:	05	
Non-peer reviewed journals	:	01	
Conference proceedings	:	01	

### List of Publication of Research Papers:

1. Greener route for the synthesis of photo- and thermochromic spiropyrans using a highly efficient, reusable, and biocompatible choline hydroxide in an aqueous medium, **J.G. Pargaonkar**, S.K. Patil, S.N. Vajekar, *Synthetic Communications*, 48 (2018) 208–215.
2. Application of Fe<sub>3</sub>O<sub>4</sub> as a magnetic nanocatalyst in the synthesis of photochromic spironaphthoxazines, **J.G. Pargaonkar**, S.K. Patil, A.B. Patil, S.N. Vajekar, *Research Journal of Chemistry and Environment*, 24 (2020) 61–69.
3. Binderless synthesis of nanoknotnet-like cobalt oxide for supercapacitor application, **J.G. Pargaonkar**, S.L. Gaikwad, P.S. Gaikar, *Materials Today: Proceedings*, 43 (2020) 2663–2667.
4. Synthesis and characterization of ZnO nanostructured sensors via co-precipitation, **J.G. Pargaonkar**, S.K. Patil, S.N. Vajekar, V.S. Kamble, S.T. Salunkhe, *Indian Journal of Natural Sciences*, 15 (2024) 72507–72514.
5. Co(II), Ni(II), Cu(II) and Zn(II) metal complexes of hydrazone Schiff base ligand: Synthesis, characterization, thermal behaviour, antioxidant and antimicrobial studies, **J.G. Pargaonkar**, S.K. Patil, T.S. Umasare, *Asian Journal of Chemistry*, 36 (2024) 1781–1792.
6. Analysis of physico-chemical parameters of agricultural soil from Taloja industrial belt, Navi Mumbai, **J.G. Pargaonkar**, V.S. Kamble, (*Anugoonj*).

### 3. Minor Research Project Completed:

Title of the project	Date of sanction	Duration	Grant received	Funding agency
A detailed and systematic study of nanostructures for toxic gases applications	Date of Sanction: 24-12-2022	01 year	Rs. 1,00,000/-	RUSA

	Date of Submission: 23-03-2024			
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**4. Faculty Development programmes like Orientation/Refresher courses/ Short term courses etc. attended:**

Name of the Course	Place	Duration	Sponsoring Agency
Refresher Course	Sant Gadge Baba Amravati University, Amaravati. (Online)	12/01/2024 to 25/01/2024	UGC, Malviya Mission Teacher Training Centre, (Amaravati)
Orientation Course	Changu Kana Thakur Arts, Commerce & Science college, New Panvel (Autonomous)	15/07/2024 To 16/07/2024	Changu Kana Thakur Arts, Commerce & Science college, New Panvel (Autonomous)
Faculty Development programme	Changu Kana Thakur Arts, Commerce & Science college, New Panvel (Autonomous)	15/12/2023 to 21/12/ 2023	Changu Kana Thakur Arts, Commerce & Science college, New Panvel (Autonomous)
Faculty Development programme	Ramsheth Thakur college of commerce and science, Kharghar, New Mumbai.	24/04/23 to 28/04/23	Ramsheth Thakur college of commerce and science, Kharghar, New Mumbai.
Faculty Development programme	Changu Kana Thakur Arts, Commerce & Science college, New Panvel (Autonomous)	18/09/2022 to 23/09/2022	Changu Kana Thakur Arts, Commerce & Science college,

			New Panvel (Autonomous)
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**5. Participation in conferences, symposia, seminars and workshops:**

Level	Presented paper	Only attended
International	--	03
National	03	12
State	--	02
University	01	--

**6. Experience on the various committees at the college**

- Member, Science Association - 04 years
- Member, RUSA Cell Committee - 03 years
- Member, Cultural Committee - 03 years
- Member, Alumni Association (2012-13 to till date)
- Member, Women Development Cell - 04 years
- Member, Career Fair - 03 Years
- Member, Board of Studies Committee (2019-20 to till date)
- Member, Avishkar Convention - 03 years

**7. Experience on the NAAC/ IQAC of the college**

Member, Criterion IV- Infrastructure and learning resources (2022-23 to till date)