



## Profile of the Faculty

### 1. General Information:

Name of the Faculty	:	Mr. Satyajit Shahaji Kamble
Name of the Department	:	Physics
Educational Qualifications	:	M. Sc., M. Phil., B. Ed., SET
Present Position	:	Assistant Professor
Address for Correspondence	:	C-702, Nandanvan Park, Plot No. 9, Sector 36, Kamothe, Navi Mumbai: 410 209
E-mail	:	<a href="mailto:satyajitkamble2@gmail.com">satyajitkamble2@gmail.com</a>
Contact Number	:	(+91) 9820677964
Specialization	:	Physics, Electronics
Total teaching experience	:	20 years
Courses taught	:	B. Sc.
Research experience	:	5 years

### 2. Publication of Research Papers:

UGC listed journals	:	<b>09</b>
Peer reviewed journals	:	<b>01</b>
Non-peer reviewed journals	:	-
Conference proceedings	:	-

### 3. List of Publication of Research Papers:

1. V. N. Pawar, V. S. Kamble, K. A. Mundhe, B. D. Aghav, S. T. Salunkhe, A. N. Kadam, **S. S. Kamble\***, Simple co-precipitation synthesis of aluminum-decorated zinc oxide nanorods for noxious NO<sub>2</sub> gas detection at low ppm concentrations, *Vacuum*, 227, 113373. (2024) (Elsevier, IF 4.0)
2. 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*, 0976 – 0997, 57868-57871. (2023)

3. V. S. Kamble, S. G. Pagare, J.M. Pawara, **S. S. Kamble**, D.K. Patil, M.A., S.L. Khairnar, Enhancing Mathematical Education for Students through the Integration of Software Tools, *Indian Journal of Natural Sciences*, 0976 – 0997, 66660-66670. (2023)
4. Vishal S. Kamble, Sunil S. Patil, Sagar L. Khairnar, Digambar K. Patil, **Satyajit S. Kamble**, Sapana M. Chilate, Jitendra M. Pawara, Synthesis, Characterization, and Applications of Y<sub>2</sub>O<sub>3</sub> Nanoparticles Synthesized via, Thermal Decomposition of the [Y(Cup)<sub>2</sub> (Gly)·2H<sub>2</sub>O] Complex, *Oriental Journal of Chemistry*, 0970-020 X, 1675-1682. (2023)
5. V.S. Kamble, S. L. Khairnar, J. M. Pawara, D. K. Patil, V. N. Pawar, **S. S. Kamble\***, Navigating the Evolution: A Comprehensive Analysis of Awareness in Contemporary TV Display Technologies, *Journal of Advanced Zoology*, 0253-7214, 225-228. (2023)
6. J. M. Pawara, V. S. Kamble, **S. S. Kamble**, D. Y. Patil, H. P. Deokar, D. K. Patil, Preparation of mixed ligand complexes of cerium (III) metal using multidentate ligands and investigation of their physicochemical, spectral, thermal, and Antibacterial Properties, *Journal of Advanced Zoology*, 0253-7214, 123-132. (2023)
7. V. N. Pawar, P. S. Thakur, **S. S. Kamble**, J. M. Pawara, S. A. Solaskar, V.S. Kamble, Exploring Aerated Autoclaved Concrete (AAC) Acoustic Properties Across Diverse Frequency Bands, *Journal of Advanced Zoology*, 0253-7214, 377-381. (2023)
8. V. N. Pawar, A. K. Chaudhary, V. S. Kamble, P. S. Thakur<sup>4</sup>, N. K. Patil, **S. S. Kamble**, Evaluation of The Public's Recognition, Approval, And Perspectives on Renewable Energy in Panvel, *Journal of Advanced Zoology*, 0253-7214, 399-402. (2023)
9. V. N. Pawar, A. K. Chaudhary, V. S. Kamble, P. S. Thakur, N. K. Patil, **S. S. Kamble**, The Effects of Various Mordant Combinations on Dyeing Cotton Fabric with Natural Dyes Extracted from Marigold Flower, Blueberries, Beetroot, and Blue Butterfly Pea Flower: A Comprehensive Study, *Indian Journal of Natural Sciences*, 0976 – 0997, 68175-68180. (2024)
10. **S. S. Kamble**, Display Technology, *Arhat Multidisciplinary Educational Research Journal (AMIERJ)*, 7(2), 333-337. (2018)

#### 4. Books authored:

National Publisher	:	07
Chapters in Edited book	:	02

## 5. List of Books authored:

1. Classical Physics (Physics -I) F. Y. B. Sc., (Mumbai University), Techmax Publication, ISBN No.: 978-93-5077-027-6, **2017**.
2. Electricity and Electronics (Physics- II) F. Y. B. Sc., (Mumbai University), Techmax Publication, ISBN No.: 978-93-87523-79-1, **2017**.
3. F. Y. B. Sc. Physics-I, Sheth Publication, ISBN No.: 978-93-5576-824-7, **2023**.
4. F. Y. B. Sc. Physics-II, Sheth Publication, ISBN No.: 978-93-5576-825-4, **2023**.
5. F. Y. B. Sc. Practical Physics, Sheth Publication, ISBN No.: 978-93-5576-919-0, **2023**.
6. F. Y. B. Sc. Physics-I, Sheth Publication, ISBN No.: 978-93-5902-240-6, **2024**.
7. F. Y. B. Sc. Physics-II, Sheth Publication, ISBN No.: 978-93-5902-666-4, **2024**.

## Chapters in an edited book

- i) Synthesis and characterization of metal oxide nanoparticles: approaches and techniques, Futuristic Trends in Chemical, Material Sciences & Nano Technology, IIP Series, Volume 3, Book 7, Part 8, Chapter 4, 246-266, ISBN NO.: 978-93-5747-960-8. **2024**.
- ii) A comparative study of gas sensor technologies for detecting hazardous gases, Rethink Revolution Transformative Waves Across Disciplines, Edition: 1, Chapter 10, 60-74. ISBN No.: 978-93-340-0464-9. **2024**.

## 6. Academic Staff College Orientation/ Refresher course attended

Name of the Course	Place	Duration	Sponsoring Agency
Orientation Course	University of Mumbai	04-11-2019 To 23-11-2019	UGC
Refresher Course	University of Mumbai	10-12-2020 To 23-12-2020	UGC
Refresher Course	Teaching Learning Centre, Ramanujan College, Delhi University	28-07-2022 To 11-08-2022	Ministry of Education Pandit Madan Mohan Malaviya Mission on Teachers and Training
NSS, Orientation Course	B.P.H.E. Society's Ahmednagar College, Ahmednagar.	22-02-2018 To 28-02-2018	Government of India, Ministry of Youth Affairs and Sports, New Delhi.

Faculty Development Programme	R.A.D.A.V. College, Bhandup (E), Mumbai	04-05-2020 To 10-05-2020	UGC
Faculty Development Programme	Teaching Learning Centre, Ramanujan College, Delhi University	18-05-2020 To 03-06-2020	Ministry of Education Pandit Madan Mohan Malaviya Mission on Teachers and Training
Faculty Development Programme	Teaching Learning Centre, Ramanujan College, Delhi University	08-06-2020 To 14-06-2020	Ministry of Education Pandit Madan Mohan Malaviya Mission on Teachers and Training
Faculty Development Programme	Teaching Learning Centre, Ramanujan College, Delhi University	02-07-2020 To 17-07-2020	Ministry of Education Pandit Madan Mohan Malaviya Mission on Teachers and Training

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

Level	Presented Paper
National	1
International	1

- **Paper presented in conference and Seminars**

- i) Paper “Advancements in NO<sub>2</sub> gas detection: Al-doped ZnO nanostructures for high sensitivity and stability” presented in an international conference at Ramsheth Thakur College of Commerce and Science, Kharghar, Navi Mumbai.  
**(December 2023)**
- ii) Paper “Detailed and systematic study of iron decorated zinc oxide for noxious NO<sub>2</sub> gas detection” in national conference at Changu Kana Thakur Arts, Commerce and Science College, New Panvel (Autonomous).  
**(December 2023)**

## 8. Experience in various committees at the college

- Placement Cell (3 years) (Chairman)
- Rooftop solar Panels (5 years) (Coordinator)
- Admission Committee (5 years) (member)
- Science Association (3 years) (member)
- NSS Program Officer (3 years)
- NAAC Criteria 7 (3 years) (member)
- NAAC Criteria 6 (2 years) (member)
- Student Council (2 years) (member)
- Staff Academy and Welfare committee (2 years) (member)

## 9. Research Project Completed:

Title of the project	Date of sanction	Duration	Grant received	Funding agency
“Detection of Toxic gases in an environment by using nanosized materials”	24/12/2022	1 YEAR	1,05,000/-	RUSA

## 10. Patents:

Status	Title	Application No.	Publishing date
Granted	METAL DETECTION DEVICE (Design petant)	405961-001	05/04/2024