

Profile of the Faculty



1. General Information:

Name of the Faculty	:	Dr. Digambar K.Patil
Name of the Department	:	Department of Chemistry
Educational Qualifications	:	M.Sc. Ph.D. (D.TEd)
Present Position	:	Assistant Professor
Address for Correspondence	:	D-301, Prayag Akruti CHS, Near Life Care Hospital, Vichumbe gaon, New Panvel, Pin Code-410 206
E-mail	:	dkmrudula980@gmail.com
Contact Number	:	9167907378
Specialization	:	Organic Chemistry
Total teaching experience	:	UG-11 & PG-6
Courses taught	:	F.Y.B.Sc., S.Y.B.Sc., M.Sc.-I, M.Sc.-II
Research experience	:	15
Number of students registered for Ph.D. degree	:	Nil
Number of students awarded Ph.D. degree	:	Nil
Number of students registered for P.G degree by research	:	Nil
Number of students awarded P.G degree by research	:	Nil

2. Publication of Research Papers:

UGC listed journals	:	11
Peer reviewed journals	:	04
Non-peer reviewed journals	:	00
Conference proceedings	:	Nil

List of Publication of Research Papers:

1. Sunil Sudam Patil , Bhushan Prabhakar Langi , Minakshi Narendra Gurav and **Digambar Kashinath Patil**, Synthesis, Physical and Spectral Investigations and Biological Studies of Mixed Ligand and Lanthanum Complexes, Annals of Rumanian society for cell biology, 10559-10569, , Vol. 25, Issue 4, (2021), ISSN : 1583-6258.
2. Sunil Patil, Bhushan Langi , Minakshi Gurav and **Digambar Patil**, Studies of Mixed Ligand Lanthanum Complexes: Synthesis, Spectral Interpretations and Antibacterial Study, Journal of Pharmaceutical Research International, 161-174, 33(37A), (2021), ISSN: 2456-9119.
3. J.M.Pawara, S.S. Patil, **D.K.Patil**, V.S.Kamble., A Newer Method Developed For The Synthesis Of Diferuloyl Methane And Its Derivatives, International journal of Advanced Research(IJAR), 332-337, 9(02), (2021), ISSN: 2320-5407, Article DOI: 10.21474/IJAR01/12451.
4. S.Patil, B.Langi, M.Gurav and **D.Patil**, Physicochemical, spectral and antibacterial studies of mixed ligand lanthanum complexes, SSRN,
5. **Digambar Patil**, Jitendra Pawara, Bhimrao Patil, Vishal Kamble, Antibacterial Detection Of Some Synthesized Cerium(III) Metal Mixed Ligand Complexes Along With Their Physicochemical, Spectral And Thermal Study, Shodhsamhita, 76-89, Vol .No .IX, Issue - 6 (III) January – June 2022
6. Ranade Prasanna B., Navale Dinesh N., Zote Santosh W.& **Patil Digambar K.**, Synthesis of substituted benzo[e][1,3]oxazino analogs, Indian Journal of Chemistry, 325-327, Vol. 61, March 2022,
7. Asmitak A. Bhagat, Sunil S. Patil¹, Bhushan P. Langi², Vishal S. Kamble¹, **Digambar K. Patil** and Jitendra M. Pawara, Physicochemical, Thermal, Spectral and Biological Investigation of Mixed Ligand Lanthanum Complexes, Indian Journal of Natural Sciences, 45164-45173, Vol.13 / Issue 73 / August / 2022, ISSN: 0976 – 0997.
8. Sunil S. Patil, Vishal S. Kamble, **Digambar K. Patil**, Jitendra M. Pawara, Synthesis of

Metal Oxide Nanoparticles by Thermal Decomposition of a Ni(II) Complex and its Antimicrobial Activity, Malaysian Journal of Chemistry, 125-131, Vol. 24(3), 2022.

- 9 Sunil. S. Patil, Saipraasad Patil, Digambar K. Patil, Vishal S. Kamble, Jitendra M. Pawara, Synthesis, Spectral and Thermal Studies of Mixed Ligand Yt (III) Complexes and their Biological Investigation, Indian Journal of Natural Sciences, 57847-57855, Vol.14 / Issue 79 / Aug / 2023, ISSN: 0976 – 0997.
- 10 Vishal S. Kamble, Sunil S. Patil, Sagar L. Khairnar, Digambar K. Patil, Satyajit S. Kamble, Sapana M. Chilate and Jitendra M. Pawara, Synthesis, Characterization, and Applications of Y₂O₃ Nanoparticles Synthesized via, Thermal Decomposition of the [Y(Cup)₂(Gly)·2H₂O] Complex, Oriental Journal Of Chemistry, 1675-1682, Vol. 39, No.(6) 2023. ISSN: 0970-020 X.
- 11 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, 123-132, Volume 44 Issue S-8 2023, ISSN: 0253-7214.

3. Books authored:

International Publisher	:	----
National Publisher	:	08
Chapter in edited book	:	01
Edited book by International publisher	:	--
Edited book by National publisher	:	---

List of Books authored:

Sr. No.	Title of the book	Publisher	ISBN No.	Year of Publication	Level at which recommended
1	Organic Chemistry	Sheth Publishers PVT. LTD	978-93-5725-448-9	2023-24	F.Y.B.Sc.
2	Physical Chemistry	Sheth Publishers PVT. LTD	978-93-5725-275-1	2023-24	F.Y.B.Sc.
3	Practicals in Chemistry	Sheth Publishers PVT. LTD	978-93-5902-075-4	2023-24	F.Y.B.Sc.
4	Practicals in Good Laboratory Practices	Sheth Publishers PVT. LTD	978-93-5902-608-4	2023-24	F.Y.B.Sc.
5	Practicals in Chemistry (Minor)	Sheth Publishers PVT. LTD	978-93-5902-920-7	2023-24	F.Y.B.Sc.
6	Practicals in Chemistry	Sheth Publishers PVT. LTD	978-93-6955-970-1	2025-26	S.Y.B.Sc.

4. Major Research Project Ongoing:

Title of the project	Date of sanction	Duration	Grant received	Funding agency
Preparation and Analysis of Mixed Ligand Lanthanum Complexes involving determination of their Physicochemical, Spectral, Thermal properties and antibacterial investigation."	01/01/2024	1 YEAR	1,00,000/-	Thakur Infrastructure Pvt. Ltd

5. Minor Research Project Completed:

Title of the project	Date of sanction	Duration	Grant received	Funding agency
Synthesis of mixed ligand complexes and study of their physicochemical, spectral, thermal properties	01/01/2021	1 year	17,000/-	Changu Kana Thakur Arts, Commerce and Science college, New panvel (Empowered Autonomous)

6. Patents:

Status	National	International
Applied	Nil	Nil
Granted	01	Nil

7. List of patents:

Metal Detection Device.

8. Membership: Nil**9. Consultancy service provided and Revenue generated:**

Analysis of soil samples in the year 2024-25 and 118,440 rupees revenue generated.

10. Academic Staff College Orientation/Refresher courses attended:

Name of the Course	Place	Duration	Sponsoring Agency
4-week faculty Induction/Orientation programme for Faculty in Universities/colleges/institutes of Higher Education	Online	1 month (23 April to 22 May 2023)	-----

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

Level	Presented Paper	Only Attended
International	3	2
National	2	2
State	0	

University	0	
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12. Conferences, symposia, seminars and workshops organized as convener/co-convener:

Level	Convener	Co-convener
International	---	-----
National	--	--
State	--	--
University	--	--

13. Experience on the various committees at the college

- Examination committee-Post Graduate (Member)
- Coordinator of Soil analysis laboratory.
- Science Association 02 years (Member)
- Student and staff Welfare association 02 (Member)
- Innovation, Incubation and Entrepreneurship cell (IIE Cell) 02 years.

14. Experience on the NAAC/ IQAC of the college

Internal Quality Assurance Cell Criteria IV (Member)

15. Experience on the Various Committees at the University of Mumbai / Government

Nil

16. Awards/recognitions received: Nil