

Profile of the Faculty



1. General Information:

Name of the Faculty	:	Prof. (Dr.) Sanjay K. Patil
Name of the Department	:	Chemistry
Educational Qualifications	:	M.Sc.(SET),M.Phil. Ph.D.
Present Position	:	Professor in Chemistry and Principal C.K Thakur A.C.S College New Panvel.
Address for Correspondence	:	Flat No. 303, A Wing, Gayatri Paradise, Plot No. 56, Sector-3, Karanjade, Panvel, Dist. Raigad, Pin - 410206
E-mail	:	skpatil.70@rediffmail.com
Contact Number	:	9322191125
Specialization	:	Organic Chemistry
Total teaching experience	:	UG: 27 PG: 18 Research Guide: 12
Courses taught	:	Organic Chemistry
Research experience	:	12 years
Number of students awarded Ph.D. degree	:	04
Number of students registered for Ph.D. degree	:	03
Number of students awarded P.G degree by research	:	03
Number of students registered for P.G degree by research	:	01

2. Publication of Research Papers:

Peer reviewed journals	:	30
UGC listed journals	:	18
Non-peer reviewed journals	:	03
Conference proceedings	:	08

3. List of Publication of Research Papers:

Publications

1. Highly Efficient and Facile Green Approach for One-Pot Fisher Indole Synthesis, Atul Chaskar, Hrushikesh Deokar, Vikas Padalkar, Kiran Phatangare and **S.K. Patil**, Journal of the Korean Chemical Society, 2010, 54 (4), page.411, Impact Factor = 0.413 ISSN-2234-8530
2. Kinetic and Mechanistic Study of Oxidation of Salicylic Acid Hydrazide by Thallium (III) in Acidic Medium, A.S, Varale, K.R. Mhatre, V.K. Kene, S.R. Kamble, M.D. Patil, **S.K. Patil**, International Journal of Chem. Tech Research, 2011, 3 (1), 357 (Jan-March 2011), Impact Factor = 0.598
3. Solvent Extraction and Spectrophotometric Determination of Mo (VI) by using Acetophenone 2',5',- Dihydroxy, Semicarbazone as an Analytical Reagent, R.S. Lokhande, S.P. Janwadkar, Shirish Pitale, Santosh Kulkarni, **Sanjay Patil**, International Journal of ChemTech Research, 2011, 3 (4), 1765-1768 (Oct-Dec 2011), Impact Factor = 0.598
4. Solvent Extraction and Spectrophotometric Determination of Fe (III) by using Acetophenone 2',5',- Dihydroxy, Semiocarbazone as an Analytical Reagent, R.S. Lokhande, S.P. Janwadkar, Shirish Pitale, Santosh Kulkarni, **Sanjay Patil**, International Journal of Pharma World Research, 2011, 2 (2), 1-10 (Jan-March 2011) , Impact Factor = 6.805
5. Solvent Extraction and Spectrophotometric Determination of Cu (II) by using Acetophenone 2',5',- Dihydroxy, Semiocarbazone as an Analytical Reagent, R.S. Lokhande, S.P. Janwadkar, Santosh Kulkarni, **Sanjay Patil**, International Journal of Pharma and Bio Science, 2011, 2 (4), 315-319 (Oct-Dec 2011) , Impact Factor = 5.121
6. Extraction and Spectrophotometric Determination of V (V) Metal Ions Using 5-Bromo Salyicylidene-2-Aminothiophenol (BSATP) As an Analytical Reagent, R.S. Lokhande, **S.K. Patil**, Santosh Kulkarni and S.P. Janawadkar, Int. J. Chem. Sci.: 9(4),2011, 1657-1662 , Impact Factor = 0.16 Accepted= 30.08.2011
7. Extraction and Spectrophotometric Determination of Ce(VI) Metal ions using Acetophenone 2',5'-dihydroxy semicarbazone (ADHS) as an Analytical Reagent, **S.K. Patil**, Santosh Kulkarni, Rasayan Journal of Chemistry, 2011, Page No. 609-612, Vol.04, Issue. 03. , Impact Factor = 0.204

8. Extraction and Spectrophotometric Determination of Cu (II) Metal ions using hydrazine carboxymide 2-[(2-hydroxyphenyl) methylene (HC22HPM) as an Analytical Reagent, R. S. Lokhande, Santosh Kulkarni, Shirish Pitale, **S.K.Patil**, S. P. Janwadkar, International Journal of Pharma Science and Research, Vol.2 (9), 2011,184-188, Impact Factor = 3.72
9. Extraction and Spectrophotometric Determination of Ce (IV) Metal ions using Hydrazinecarboxymide2-[(2-hydroxyphenyl) methylene(HC22HPM) as an Analytical Reagent, R. S. Lokhande, Santosh Kulkarni, Shirish Pitale, **S. K. Patil**, S. P. Janwadkar, International Journal of Pharmaceutical and Biological Research, Vol. 2(6), 2011, 161-164. , Impact Factor = 3.987
10. Solvent Extraction and Spectrophotometric Determination of U (VI) By Using Acetophenone 2', 5'- Dihydroxy, Semicarbazone as an Analytical Reagent, R. S. Lokhande, S. P. Janwadkar, Shirish Pitale, Santosh Kulkarni, **Sanjay Patil**, Journal of Advanced Scientific Research, 2012, 3(2): 82-83.
11. A) An Aggressive tradition becoming threat to Bombax Ceiba, the Indian Silk Cotton Tree. **S.K.Patil**, M.M.Naik, S.S.Patil, ANUGOONJ, Issue-3 (2013-14), ISSN 2348-9731.
11. B) Study of traditional eco-friendly mosquito repellents – An ethno botanical survey of Konkan region and its correlation with phyto-chemical and larvicidal activity study. **S. K. Patil**, M. M. Naik, G. K. Badgujar, ANUGOONJ, Issue-4 (2012-13).
12. Characterization and Biological Screening of Newly Synthesized Derivatives of Coumarin, **Sanjay K.Patil**, Hrushikesh Deokar, International Journal of Science and Research (IJSR),Volume 3 Issue 10,October 2014. , Impact Factor = 3.358
13. Comparative studies on synthesis and structure of old and new polymorphs of desvenlafaxine –An antidepressant drug, Mahendra Khandpekar, Jayanta Mheta, **Sanjay Patil**, Sonali Araj, Pandurang Satpute, Indonesian Journal Pharm.VVol.25.No.1:25-30.
14. Synthetic method and characterization of novel phthalamide derivatives, **S.K.Patil**, Rajaram H.Pisal and Hrushikesh P.Deokar. International Journal of Der pharma Chemica,2014,6(6):273-278. , Impact Factor = 0.21
15. Synthesis and structural determination of novel hetrocyclic derivatives of coumarin isothiocyanates, **S.K.Patil** and Hrushikesh P.Deokar,International Journal of Der chemica Sinica,2014,5(6):74-78.

16. Extraction and Spectrophotometric Determination of Cd (II) Ions Using 5- Bromo Salicylidene-2-Aminothiophenol (bsatp) As an Analytical Reagent, **S.K. Patil**, R.S. Lokhande, S.M.Pitale, S.W. Kulkarni and S.P. Janawadkar, Int. J. Chemistry, Volume3 (4), October-December 2014. Impact Factor 1.44
17. Synthesis and characterization of some novel bioactive thiazolidinone derivatives of 3-substituted coumarine, **Sanjay K.Patil**, Bhushan P Langi and Hrushikesh P. Deokar. Indo American Journal of Phamaceutical Research. 5(1).2015:578-583. Impact factor 2.37
18. Synthesis and Anti-Microbial Activity of the Highly Substituted 2-(1H-Benzo(d) Imidazole—yl)-3-oxobutanenitrile, **S.K.Patil**, N.S.Chandan, A.S.Nirmalkar. American Journal of Pharmtech Research.2015,5(3), Impact factor 0.983
19. Synthesis, characterization and antibacterial properties of the ternary complexes of cerium with Schiff base derived from 4-aminoantipyrine and some amino acids. B. D. Aghav*, S. K. Patil and R. S. Lokhande. Pelagia Research Library, Advances in Applied Science Research, 2015, 6(12):37-43
20. Solvent extraction and spectrophotometric determination of Fe(III) by using 5-bromo salicylidene-2-aminothiophenol (BSATP) as an analytical reagent. S. K. Patil*, S.W. Kulkarni, S. P. Janwadkar. International Journal of ChemTech Research, 2017, 10 (6) 311-314.
21. Solvent Extraction And Spectrophotometric Determination of Ni(II) By Using 5-Bromo Salicylidene-2-Aminothiophenol as An Analytical Reagent. Sanjay K. Patil* Int. J. Pharma Bio Sci July 2017; 8(3): (P)196-201
22. Synthesis, Characterization and Evaluation of Pyridobenzimidazole Derivatives as Potential Antimicrobial Agents. Sanjay K Patil*, Sudhakar A Nirmalkar, Hrushikesh P Deokar. Der Pharma Chemica, 2017, 9(10):84-88
23. Synthesis, Spectroscopic Characterization and in Vitro Antimicrobial Evaluation of Novel Pyrrolo Benzimidazole Derivatives. Sanjay K Patil*, Sunil S Patil, Sudhakar A Nirmalkar and Vaishali S Nirmalkar. International Journal Of Research in Pharmacy and Chemistry, 2018, 8(1)
24. Greener route for the synthesis of photo- and thermochromic spiropyran using a highly efficient, reusable, and biocompatible choline hydroxide in an aqueous medium. Sanjay K. Patil, Jyotsna G. Pargaonkar, & Shailesh N. Vajekar. Synthetic Communications, 2018, Vol. 48, No. 2, 208-215

25. Synthesis, Characterization and Antimicrobial Study of Some New Benzimidazole-2-Thione Derivatives. Sanjay K. Patil^{1*}, Sudhakar A. Nirmalkar, Hrushikesh P. Deokar and Vaishali S. Nirmalkar. World Journal of Pharmaceutical Research. Vol 6, Issue 17, Dec-2017, 736-748.
26. Synthesis, Spectral Characterization and Antimicrobial Evaluation of Novel Pyrimidobenzimidazole Derivatives. Sanjay K. Patil^{1*}, Sudhakar A. Nirmalkar, Vaishali S. Nirmalkar, Hrushikesh P. Deokar. Heterocyclic Letters Vol. 8 No.1 Nov-Jan 2018. ISSN : (Print) 2231–3087 / (Online) 2230-9632
27. Greener route for the synthesis of photo – and thermochromic spiropyrans using a highly efficient, reusable, and biocompatible choline hydroxide in an aqueous medium. Jyotsna G. Pargaonkar, Sanjay K. Patil & Shailesh N. Vajekar, Synthetic Communications, 2018, Vol.48, No.2, 208-215,
28. Application of Fe₃O₄ as a magnetic nanocatalyst in the synthesis of photochromic spironaphthoxazines. Pargaonkar Jyotsna G, Patil Sanjay K, Patil Aniruddha B, Vajekar Shailesh N, Research Journal of chemistry and Environment, Vol.24(6) June (2020).
29. Synthesis, Characterization, Anticancer and DNA photocleavage study of novel quinolone Schiff base and its metal complexes. Sanjay K. Patil, Baliram t. Vibhute .Arabian Journal of Chemistry, Vol.14, issue 8, August 2021, 103285,
30. Synthesis, Spectral Characterization and Antitubercular Study of Novel Quinoline Schiff Base and Its Metal Complexes. Vibhute Baliram T, Patil Sanjay K and Arvind M. Analytical Chemistry Letters, ISSN:2229-7928(print); ISSN: 2230-7532 (online)
31. Versatile applications of transition metal incorporating quinoline Schiff base metal complexes: An overview, Harshad R. Sonawane, Baliram T. Vibhute, Balasaheb D. Aghav, Jaydeep V. Deore, Sanjay K. Patil, European Journal of Medicinal Chemistry, Volume 258, (2023), 115549.
32. The impact of air pollution on solar energy generation in the Panvel-Navi Mumbai region, Indian Journal of Natural Sciences, V.N. Pawar, V.S. Kamble, S.T. Salunkhe, J.M. Pawara, S.K. Patil, G.U. Patil, S.S. Kamble*, (2023)
33. Synthesis, Characterization, Antioxidant and Antimicrobial Studies of Acenaphthaquinone Based Schiff Base and Its Corresponding Co(II), Ni(II), Cu(II) and Zn(II) Metal Complexes TUSHAR S. UMASARE*, and SANJAY K. PATIL Asian Journal of Chemistry; Vol. 35, No. 8 (2023), 1932-1942.
34. Efficient Synthesis of Xanthenediones Using CuCeO₂ Nanoparticle Catalyst in Aqueous Medium, S.A. Shaikh, V.S. Kamble, S.T. Salunkhe, S.K. Patil, and B.D. Aghav*, Organic Preparations and Procedures International (2023).

4. Books authored:

National Publisher	:	18
Chapter in edited book	:	61

5. List of Books authored:

SN	Academic Year	Author and Co-authors	Title of Chapter	Publisher, Editor, Page Numbers, Month and Year of publication	ISBN
01	2005-2006	Dr. S. K. Patil , Dr. Ira Bhattacharya, Dr. R. K. Sharma, Dr. Leena Rao, Pratibha Singh, Farhana wali	Organic Chemistry -T.Y.B.Sc.	Sheth Publishers Pvt. Ltd., Mumbai	--
02	2008-2009	Dr. S. K. Patil , Dr. Ira Bhattacharya, Dr. R. K. Sharma, Dr. Leena Rao, Pratibha Singh, Farhana wali	Organic Chemistry -F.Y.B.Sc.	Sheth Publishers Pvt. Ltd., Mumbai	--
03	2009-2010	Dr. S. K. Patil , Dr. Ira Bhattacharya, Dr. R. K. Sharma, Dr. Leena Rao, Pratibha Singh, Farhana wali	Organic Chemistry -S.Y.B.Sc.	Sheth Publishers Pvt. Ltd., Mumbai	--
04	2010-2011	Dr. S. K. Patil , Dr. Ira Bhattacharya, Dr. R. K. Sharma, Dr. Leena Rao, Pratibha Singh, Farhana wali	Organic Chemistry -S.Y.B.Sc.	Sheth Publishers Pvt. Ltd., Mumbai	--

05	2013-2014	Dr. S. K. Patil , Dr. Ira Bhattacharya, Dr. R. K. Sharma, Dr. Leena Rao, Pratibha Singh, Farhana wali	Organic Chemistry -T.Y.B.Sc.	Sheth Publishers Pvt. Ltd., Mumbai	978-93-83105-18-2
06	2013-2014	Dr. S. K. Patil , Dr. Ira Bhattacharya, Dr. R.K. Sharma, Dr. Leena Rao, B.S.Yadav	Organic Chemistry -F.Y.B.Sc.	Sheth Publishers Pvt. Ltd., Mumbai	978-93-83105-19-9
07	2013-2014	Dr. S. K. Patil , Dr. Ira Bhattacharya, Dr. R. K. Sharma, Dr. Leena Rao, B.S.Yadav	Organic Chemistry -S.Y.B.Sc.	Sheth Publishers Pvt. Ltd., Mumbai	978-93-81477-22-9
08	2014-2015	Dr. S. K. Patil , Dr. Ira Bhattacharya, Dr. R. K. Sharma, Dr. Leena Rao, Pratibha Singh, Farhana wali	Organic Chemistry -T.Y.B.Sc	Sheth Publishers Pvt. Ltd., Mumbai	978-93-5149-093-7
09	2014-2015	Dr. S. K. Patil , Pratibha Singh, Dr. Leena Rao, Dr. R.K.Sharma, Dr. Sudhir Lingayat, Sakina Bootwala, Chayya Pawar	Inorganic and Organic Chemistry-F.Y.B.Sc.	Sheth Publishers Pvt. Ltd., Mumbai	978-93-5149-064-7
10	2015-2016	Dr. S. K. Patil , Pratibha Singh, Dr. Leena Rao, Dr. Sudhir Lingayat, Sakina Bootwala, Dr. Shaila Dagaonkar	Inorganic and Organic Chemistry-S.Y.B.Sc.	Sheth Publishers Pvt. Ltd., Mumbai	978-93-5149-317-4
11	2015-2016	Dr. S. K. Patil , Pratibha Singh, Dr. Leena Rao, Dr. R.K. Sharma, Dr. Sudhir Lingayat, Sakina Bootwala, Chayya Pawar	Inorganic and Organic ChemistryF. Y.B.Sc.	Sheth Publishers Pvt. Ltd., Mumbai	978-93-5149-170-5
12	2016-2017	Dr. S.K. Patil , Dr. Leena Rao, Pratibha Singh, Dr. Deepak Shinde, Dr. Shaila	Organic Chemistry-T.Y.B.Sc.	Sheth Publishers Pvt. Ltd., Mumbai	978-93-5149-580-2

		A. Dagaonkar, Dr. Ravindra Chavan, Dr. Ashish Uzgare			
13	2016-2017	Dr. S.K. Patil , Dr.Leena Rao and Pratibha Singh	Organic Chemistry- F.Y.B.Sc.	Sheth Publishers Pvt. Ltd., Mumbai	978-93-5149-624-3
14	2017-2018	Dr. S.K. Patil , Dr.Leena Rao and Pratibha Singh	Organic Chemistry S.Y.B.Sc.	Sheth Publishers Pvt. Ltd., Mumbai	978-93-5149-851-3
15	2018-2019	Dr. S.K. Patil , Dr.Leena Rao and Pratibha Singh	Organic Chemistry S.Y.B.Sc	Sheth Publishers Pvt. Ltd., Mumbai	978-93-5149-996-1
16	2018-2019	Dr. S.K. Patil , Dr.Leena Rao and Pratibha Singh	Organic Chemistry T..Y.B.Sc	Sheth Publishers Pvt. Ltd., Mumbai	978-93-87778-88-7
17	2019-2020	Dr. S.K. Patil , Dr.Leena Rao and Pratibha Singh	Organic Chemistry F.Y.B.Sc	Sheth Publishers Pvt. Ltd., Mumbai	
18	2021-2022	Dr. S.K. Patil ,	Physical Chemistry F.Y.B.Sc	Sheth Publishers Pvt. Ltd., Mumbai	

6. Minor Research Project Completed:

Title of the project	Date of sanction	Duration	Grant received	Funding agency
Synthesis, Characterization and Biological Studies on Mixed Ligand Ni(II) Complexes of Some Amino Acids	February 2009	1 years	38000	University of Mumbai
Extraction and Spectrophotometric Determination of Copper(II) in Pharmaceuticals,Alloys,Foodstuffs Cultivated on Polluted Soil and Water Around Industrial Area with Novel Schiff's Base	October 2010	2 years	70000	<u>UGC</u>
Synthesis, Characterization and Biological Studies on Mixed Ligand Fe(III) Complexes of Some Amino Acids	November 2010	1 years	10000	University of Mumbai
Use of Novel Schiff Base for Extraction and Determination of	December 2013	1 years	25000	University of Mumbai

Nickel(II) in Alloys and Vegetable Oils by Solvent Extraction Method				
Synthesis and Characterization of Novel Bioactive Coumarin Derivatives	January 2017	1 years	35000	University of Mumbai

7. Membership:

1. Membership of learned Academic bodies		
Sr. No.	Academic Year	Member of National / International/Editorial Board etc.
01	2011-2012	Member, Indian Science Congress Association (National)
02	2017-2018 (Life membership)	Member, Association of Chemistry Teachers (National)

8. Academic Staff College Orientation/Refresher courses attended:

Name of the Course	Place	Duration	Sponsoring Agency
Orientation Course	Academic Staff College, University of Pune, Pune	22-03-2004 to 18-04-2004	U.G.C.
Refresher Course	Academic Staff College, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad	07-09-2006 to 27-09-2006	U.G.C.
Refresher Course	Academic Staff College, University of Mumbai, Mumbai	04-08-2008 To 25-08-2008	U.G.C.
Refresher Course	Academic Staff College, University of Kerala, Kariavattom, Kerala	28-11-2009 to 18-12-2009	U.G.C.
Short Term Course	Academic Staff College, University of Mumbai	16-10-2014 To 21-10-2014	U.G.C.

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

Level	Presented paper	Only attended	Chaired session	Resource person
International	03	05	--	--
National	11	16	04	05
State	05	10	04	11
University	06	08	02	02

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

Level	Convener
National	05
State	04
University	01

11. Experience on the various committees at the college

1.Administrative Experience & Contribution towards Extracurricular & Co-curricular activities of the college
i. Vice Principal,(From January 2019 till date)
ii. Incharge, Faculty of Science (From Academic Year 2007-2008 till date)
iii. Head, Department of Chemistry(From Academic Year 2007-2008 till date)
iv. Member, Local Management Committee C.K. Thakur A.C.S. College, New Panvel (From Academic Year 2007-2008 till date)
v. Gymkhana Committee - 02 Years (As a Chairman 2001-2003)
vi. Cultural Committee - 06 years (As a Chairman 2003-2009)
vii. Students' Council and Students' Welfare - 02 years (As a Chairman 2008-2010)
viii. Staff Welfare Committee - 10 years (As a Chairman 2007-2008 till date)
ix. Staff Academy - 01 year (As a Chairman 2007-2008)
x. Research Committee - 07 years (As a Member-Secretary 2011-2012 till date)
xi. Library Committee- 07 years (As a Member 2011-2012 till date)
xii. IQAC NAAC Criterion-I - 16 years (As a Chairman 2002-2003 till date)
xiii. Alumni Association (As a Member)
xiv. Admission Committee (As a Member)
xv. Prospectus Committee (As a Member)
xvi. Career Oriented Courses Monitoring Committee (As a Member)

xvii.	Attendance Monitoring Committee (As a Member)
xviii.	Canteen Committee (As a Member)
xix.	N.C.C Advisory Committee (As a Member)
xx.	Teachers-Parent Committee (As a Member)

12. Experience on the NAAC/ IQAC of the college:

- i) IQAC NAAC Criterion-I - (As a Chairman 2002-2019)

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

1. Experience on the Various Committees/Activities at the University of Mumbai		
Sr. No.	Committee/Activity	Year
1	District Co-ordinator, Raigad District Youth Festival, University of Mumbai for the academic year	2005-2006
2	Jury Member, Zonal Avishkar Research Convention, University of Mumbai for the academic year	2011-2012
3	Member, Syllabus Committee for M.Sc. Semester III and IV, University of Mumbai	2012-2013
4	Subject expert for appointment to the post of Assistant Professor in the subject of Chemistry in Rayat Shikshan Sansthas K.B.P. College, Vashi	2012-2013
5	Vice-Chancellors nominee as a subject expert for appointment to the post of Assistant Professor in the subject of Chemistry at Devrukh College, Ratnagiri	2012-2013
6	Subject expert for appointment to the post of Assistant Professor in the subject of Chemistry at Shiksan Maharshi Dadasaheb Limaye College, Kalamboli, Raigad	2012-2013
7	Member, Syllabus Committee for F.Y.B.Sc. Semester I and II, University of Mumbai	2013-2014
8	Worked as Resource Person for Avishkar Research Convention Workshop	2014-2015
9	Jury Member, University level Avishkar Research Convention, University of Mumbai	2014-2015
10	Member, Syllabus Committee for S.Y.B.Sc. Semester III and IV, University of Mumbai	2014-2015

11	Member, Syllabus Committee for T.Y.B.Sc. Semester V and VI, University of Mumbai	2015-2016
12	Worked as Resource Person for 8th Youth Indian Science Congress, organised by University of Mumbai	2016-2017
13	Examiner, T.Y.B.Sc. Chemistry (Theory & Practical) University of Mumbai	--
14	Examiner, M.Sc. Chemistry (Theory & Practical) University of Mumbai	--
15	Moderator in the subject of Chemistry at M. P. A.S.C. College, Panvel	--
16	Vice-Chancellors nominee as a subject expert for appointment to the post of Assistant Professor in the subject of Chemistry at Guhaghar College, Ratnagiri	--
17	Subject expert for appointment to the post of Assistant Professor in the subject of Chemistry at KLE College, Kalamboli, Navi Mumbai	--
18	Subject expert for appointment to the post of Assistant Professor in the subject of Chemistry at Shri G.M. Vedak College, Tala Raigad	--
19	Chief Conductor at different Under Graduate & Post Graduate Examinations	--
20	Member, LIC committee	--

14. Awards/recognitions received :

Level	Title	Year	Awarding agency
National	Babu Jagjivan Ram National Award 2013	2014	Babu Jagjivan Ram Kala Sanskriti Tatha Sahitya Academy, Delhi
State	Best Teacher Award	2006	Ramsheth Thakur Samajik Vikas Mandal, Panvel