



## Profile of the Faculty

### 1. General Information:

Name of the Faculty	:	Dr.Sanjay K.Patil
Name of the Department	:	Chemistry
Educational Qualifications	:	M.Sc., Ph.D.,M.Phil., SET.
Present Position	:	Vice Principal & Head of Department of Chemistry
Address for Correspondence	:	Flat No. A/303, Gayatri Paradise, Plot No-56, Sector-3, Karanjade, Panvel, Dist. Raigad, State-Maharashtra, Pin.-410206
E-mail	:	skpatil.70@rediffmail.com
Contact Number	:	9322191125
Specialization	:	Organic Chemistry
Total teaching experience	:	24 years
Courses taught	:	T.Y.B.Sc. & M.Sc. Organic Chemistry
Research experience	:	12 years
Number of students registered for Ph.D. degree	:	03 Nos.
Number of students awarded Ph.D. degree	:	02 Nos.
Number of students registered for P.G degree by research	:	01 No.
Number of students awarded P.G degree by research	:	03 Nos.

### 2. Publication of Research Papers: 27

UGC listed journals	:	<b>14 Nos.</b>
Peer reviewed journals	:	<b>26 Nos.</b>
Non-peer reviewed journals	:	<b>01 Nos.</b>
Conference proceedings	:	<b>07 Nos.</b>

### 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, Semiocarbazon 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, Semiocarbazon 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 Salicylidene-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 Hydrazinecarboxymide 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 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 Salyicylidene-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 spiropyrans 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<sup>1\*</sup>, 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<sup>1\*</sup>, 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. Vajekar\*, S. N.; Pargaonkar, J. G.; Patil A. B.; Patil, S. K. Application of Fe<sub>3</sub>O<sub>4</sub> as a magnetic nanocatalyst in the synthesis of photochromic spironaphthoxazines. *Research Journal of Chemistry and Environment*, **2020**, 24 (6), 61-69.

#### 4. Books authored: 17 Nos.

National Publisher	:	<b>17 Nos.</b>
Chapter in edited book	:	<b>68 Chapters</b>
Edited book by National publisher	:	---

#### 5. List of Books authored:

Sr. No.	Title of the Book	Name of the Publisher	Year
01	Organic Chemistry- T. Y.B. Sc	Sheth Publishers Pvt. Ltd., Mumbai	2005-2006
02	Organic Chemistry-F. Y. B. Sc.	Sheth Publishers Pvt. Ltd., Mumbai	2008-2009
03	Organic Chemistry-S. Y. B. Sc.	Sheth Publishers Pvt. Ltd., Mumbai	2009-2010
04	Organic Chemistry- T. Y. B. Sc.	Sheth Publishers Pvt. Ltd., Mumbai	2010-2011
05	Organic Chemistry-F. Y. B. Sc.	Sheth Publishers Pvt. Ltd., Mumbai	2014-2015
06	Organic Chemistry- T. Y. B. Sc	Sheth Publishers Pvt. Ltd., Mumbai	2014-2015
07	Organic Chemistry- T. Y. B. Sc	Sheth Publishers Pvt. Ltd., Mumbai	2016-2017

08	Inorganic & Organic Chemistry- S.Y.B.Sc.	Sheth Publishers Pvt. Ltd., Mumbai	2015-2016
09	Inorganic & Organic Chemistry- F.Y.B.Sc.	Sheth Publishers Pvt. Ltd., Mumbai	2015-2016
10	Organic Chemistry-F. Y. B. Sc.	Sheth Publishers Pvt. Ltd., Mumbai	2016-2017
11	Organic Chemistry-S. Y. B. Sc.	Sheth Publishers Pvt. Ltd., Mumbai	2017-2018
12	Organic Chemistry- T. Y.B. Sc	Sheth Publishers Pvt. Ltd., Mumbai	2018-19
13	Organic Chemistry-F. Y. B. Sc.	Sheth Publishers Pvt. Ltd., Mumbai	2018-19
14	Organic Chemistry-S. Y. B. Sc.	Sheth Publishers Pvt. Ltd., Mumbai	2018-19
15	Organic Chemistry- T. Y.B. Sc	Sheth Publishers Pvt. Ltd., Mumbai	2019-20
16	Organic Chemistry-F. Y. B. Sc.	Sheth Publishers Pvt. Ltd., Mumbai	2019-20
17	Organic Chemistry-S. Y. B. Sc.	Sheth Publishers Pvt. Ltd., Mumbai	2019-20

#### 6. Minor Research Project Completed:

No.	Title of the project	Duration	Grant received in Rs.	Funding agency
1	Synthesis, Characterization and Biological Studies on Mixed Ligand Ni(II) Complexes of Some Amino Acids	Feb. 2009 to Sept. 2010	70,000	UGC
2	Synthesis, Characterization and Biological Studies on Mixed Ligand Fe(III) Complexes of Some Amino Acids	Nov. 2010 to Sept. 2011	25,000	University Of Mumbai
3	Extraction and Spectrophotometric Determination of Copper(II) in Pharmaceuticals, Alloys, Foodstuffs Cultivated on Polluted Soil and Water	Oct. 2010 to Dec. 2012	35,000	University Of Mumbai

	Around Industrial Area with Novel Schiff's Base			
4	Use of Novel Schiff Base for Extraction and Determination of Nickel (II) in Alloys and Vegetable Oils by Solvent Extraction Method	2013-2014	25,000	University Of Mumbai
5	Synthesis and Characterization of Novel Bioactive Coumarin Derivatives	2017-18	35,000	Dr. S. K. Patil

### 7. Membership:

Academic Year	Member of National / International/Editorial Board etc.
2014-2015 (Life membership)	Member, Indian Science Congress Association (National)
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	University of Pune, Pune	22-03-2004 to 18-04-2004	UGC
Refresher Course	Dr. Babasaheb Ambedkar Marathwada University, Aurangabad	07-9-2006 to 27-9-2006	UGC
Refresher Course	University of Mumbai, Mumbai	04-8-2008 to 25-8-2008	UGC
Refresher Course	University of Kerala, Kariavattom, Kerala	28-11-2009 to 18-12-2009	UGC
Short Term Course	University of Mumbai, Mumbai	16-10-2014 to 21-10-2014	UGC



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

Level	Presented paper	Only attended	Chaired session	Resource person
International	<b>02</b>	<b>02</b>		...
National	<b>11</b>	<b>24</b>	<b>02</b>	...
State	<b>02</b>	<b>12</b>	...	...
University	...	<b>08</b>	...	<b>13</b>

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

Level	Convener	Co-convener
National	<b>04</b>	...
State	<b>03</b>	..
University	<b>02</b>	...

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

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

xviii.	N.C.C Advisory Committee (As a Member)
xix.	Teachers-Parent Committee (As a Member)

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

i. IQAC NAAC Criterion-I - 16 years (As a Chairman 2002-2003 till date)
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## 13. Experience on the Various Committees at the University of Mumbai / Government

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
University	Best Teacher Award	2006	Ramsheth Thakur Samajik Vikas Mandal, Panvel