

Government of Maharashtra  
**Government College of Arts and Science, Aurangabad**

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**Faculty Profile**



1. General Information		
a.	Name of Professor	: Dr. Bapu Ranganath Thorat
b.	Qualification	: Ph.D.
c.	Designation	: Assistant Professor
d.	Date of Birth	: 06/09/1978
e.	Faculty	: Science
f.	Department	: Chemistry
g.	Area of Specialization	: Organic Chemistry
h.	Address (Residential)	: At: Chandewadi      Post: Fatyabad Tal: Shrirampur      Dis: Ahmednagar (M.S.) Pin Code: 413 710 Phone No. : 09892786625 e-mail ID : bthorat78@gmail.com
	Date of Appointment	: In the Institution: 13.08.2021 (by Govt. Transfer) In the present post: 13.06.2008

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**2. Academic Qualifications: SSC, HSC, Bachelor, Masters, B.Ed. M.Ed., SET, NET, M. Phil, Ph.D., D. Lit., etc.**

Sr. No.	Degree	Board/University	Special/optional Subject	Year	%	Division/Class/Grade
1.	S.S.C.	Poona	Math, Sci, Soc. Sci.	1995	72.13	First Class
2.	H.S.C.	Poona	Math, Phys, Chem.	1997	63.33	First Class
3.	Bachelor	Poona	Chemistry	2000	79.60	First Class with Dist.
4.	Masters	Poona	Organic Chemistry	2002	78.80	First Class with Dist.
5.	SET	--	Chemical Science	Feb-2003	Pass	
6.	NET	--	Chemical Science	Dec - 2003	Pass	
7.	Ph. D.	Mumbai	Chemistry	Dec - 2014	Award degree in 18 Dec. 2014	

**3. Research & Training:**

Research Stage	Faculty	Subject	Title of work/Theses	University where the work was carried out	Name of Research center	Award/Registered/Submitted (Date)
Ph. D.	Science	Chemistry	SYNTHESIS, CHARACTERIZATION AND ANTI-CANCER PROPERTIES OF BIOLOGICALLY ACTIVE BENZOFURANS AND ITS COMPLEXES	University of Mumbai	Research Center, Department of Chemistry, Ismail Yusuf College, Mumbai	18.12.2014

**4. Faculty Development Activities:**

Course	Year	Faculty	Name of Teacher	Name of Department	Title of the professional development program	Date and Duration (from - to)	Organizing institution
Refresher Course	2010-11	Science	Dr. Bapu R. Thorat	Chemistry	Refresher Course in Chemistry	22/07/2010 to 11/08/2010	ASC, University of Hyderabad, Hyderabad
	2018-19	Science	Dr. Bapu R. Thorat	Chemistry	Refresher Course in Chemistry	11/11/2018 to 01/12/2018	ASC, University of Mumbai, Kalina
	2019-20	Science	Dr. Bapu R. Thorat	Chemistry	Refresher Course in Chemistry	31/10/2019 to 13/11/2019	ASC, University of Mumbai, Kalina
Orientation course	2011-12	Science	Dr. Bapu R. Thorat	Chemistry	Orientation Course	07/09/2011 to 04/10/2011	ASC, Goa University, Goa
Short Term Course	2019-20	Science	Dr. Bapu R. Thorat	Chemistry	Short term course	06/05/2019 to 11/05/2019	SNDT University, conducted by ASC, University of Mumbai, Kalina Campus, Mumbai

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	2021-22	Science	Dr. Babu R. Thorat	Chemistry	Short Term Course in Academic Leadership & Resources Management	07/03/2022 to 12/03/2022	UGC-HRDC, Jawaharlal Neharu University, New Dehli
Faculty Development Programs/STP	2015-16	Science	Dr. Babu R. Thorat	Chemistry	Administrative training as per STP (State Training Policy 2011)	07/12/2015 to 11/12/2015	YASHADA, Pune
	2021-22	Science	Dr. Babu R. Thorat	Chemistry	Faculty Development Program: E-Learning and E-Governance	21/07/2022 to 27/07/2022	Pandit Madam Mohan Malaviya Mission on Teachers & Training, Himmat Vidyanagar Ramanujan College FDP-157

Attached copy of all necessary documents

**5. Teaching and Research Experience:**

**Undergraduate:**

Name of Teacher	Designation	Appointment	University	Name of Employer	Local/ Approved	Period		Total experience	Reason of leaving
						Joining	Leaving		
Dr. Babu R. Thorat	Lecturer	Adhoc	University of Pune	Maharaja Jiwajirao Shinde Mahavidyalaya Shrigonda	Approved	04/08/2003	04/08/2005	02 years	(ADHOC basis)
Dr. Babu R. Thorat	Lecturer	Regular	University of Pune	P. V. P. College, Pravaranagar, Tal - Rahata	Approved	05/08/2005	04/08/2007	02 years	Resignation
Dr. Babu R. Thorat	Lecturer	Regular	University of Pune	Chhatrapati Shivaji Mahavidyalaya, Shrigonda	Approved	16/08/2007	12/06/2008	10 months	Joining at I. Y. college
Dr. Babu R. Thorat	Assistant Professor	Regular	University of Mumbai	Ismail Yusuf College of Arts, Science and Commerce, Mumbai 400060	Approved	13/06/2008	10/08/2021	11 years 10 months	Transfer to Govt. College Aurangabad
Dr. Babu R. Thorat	Assistant Professor	Regular	University of Aurangabad	Government College of Arts and Science, Aurangabad	Govt. Transfer	13/08/2021	Till date		--

Attach copy of approval

**Post Graduate and Research:**

Name of Teacher	Designation	Appointment	University	Name of Employer	Approval/Appointment Letter No.	Period		Total experience	Reason of leaving
						Joining	Leaving		
Dr. Babu R. Thorat	Lecturer	Regular	University of Pune	P. V. P. College, Pravaranagar, Tal - Rahata	Approved	05/08/2005	04/08/2007	02 years	Resignation
Dr. Babu R. Thorat	Assistant Professor	Regular	University of Mumbai	Ismail Yusuf College of Arts, Science and Commerce, Mumbai 400060	Approved	13/06/2008	10/08/2021	11 years 10 months	Transfer to Govt. College Aurangabad

Total Teaching Experience: Under graduate = 16 years  
Post graduate = 13 years  
Research/other = 06 Years (other than Ph.D.)

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**6. Chairperson/Member/Secretary of in various bodies of the Universities/Autonomous Colleges/Other Colleges/Editorial Board/Syllabus committee/any other statutory body, such as BoS and Academic Council.**

Year	Name of teachers participated	Faculty	Department	Name of the body in which full time teacher participated	Name of Universities/Autonomous Colleges/Other Colleges/Agencies

**7. Research activity of Teacher:**

**A. Research Guide:**

Name of Teacher	Faculty	Name of Department	Name of University	University letter No.	Number of students		
					Completed	Submitted	Registered
Dr. Babu R. Thorat	Science	Chemistry	University of Mumbai	PG/CD/2019-20/953, 09.01.2020	--	--	01 M.Sc. by Research

*Attached copy of letter*

**B. Research students information:**

Academic Year	Faculty	Name of the guide/s	Name of the Department	Name of the M.Sc. by Reseach/M.Phil./PhD scholar	Title of the thesis	Year of registration of the scholar	University	Month & Year		
								Award	Submitted	Registered
2020-21	Science	Dr. Babu R. Thorat	Chemistry	Shri. Dinesh Bhosale	Synthesis and anti-TB study of aryloxyacetohydrazones	2021	University of Mumbai			June-2021

*Attached copy of letter*

**C. Number of research papers per teacher in the Journals notified on UGC website or listed in Scopus during the last five years:**

Faculty	Title of paper	Name of the author/s	Department	Name of Journal	Year of publication, Volume, Issue No., page No.	ISBN/ISSN number	Impact Factor	Link or DOI of the paper
Science	Synthesis and Characterization of Novel Transition Metal Complexes of 4-Methy1-7-Hydroxy 8-Formy1 Coumarin and Their Biological Activities	Dr. Babu R. Thorat	Chemistry	Asian J. Research Chem	2011, 4(8), 1238-1242	0974-4169 for print and 0974-4150 online	--	--
Science	Synthesis and Photophysical properties of Zn(II) and Cu(II)	Dr. Babu R. Thorat	Chemistry	Asian J. Research Chem	2011, 4(12), 1887-1891	0974-4169 for print and	--	--

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	complex of 2-{{E}}-(2-hydroxyphenyl) methylidene} amino} benzoic acid					0974-4150 online		
Science	Synthesis and Characteristics of Hydrazones, Pyrazoles and Pyrazolones from 8-amino-6-chloro coumarine	Dr. Babu R. Thorat	Chemistry	Asian J. Research Chem,	2011, 4(10), 1621-1624	0974-4169 for print and 0974-4150 online	--	--
Science	Synthesis and Fluorescence properties of Schiff bases of 4-hydroxy-3-methoxy-5-nitrobenzaldehyde	Dr. Babu R. Thorat	Chemistry	J. Chem. Pharm. Res	2011, 3(6), 1045-1054	0975 - 7384	--	--
Science	Synthesis and Fluorescence study of Novel Schiff Bases of Isoniazide	Dr. Babu R. Thorat	Chemistry	J. Chem. Pharm. Res	2011, 3(6), 1109-1117	0975 - 7384	--	--
Science	Synthesis of novel Schiff bases and its transition metal complexes	Dr. Babu R. Thorat	Chemistry	J. Chem. Pharm. Res	2011, 3 (4), 5-9	0975 - 7384	--	--
Science	Fluorescence study of Co (II), Ni (II), Cu (II) and Zn (II) Complex of 8-[(e)-[[3-(Dimethylamino)propyl]imino} methyl]-7-hydroxy-4-methyl-2-hchromen-2-one	Dr. Babu R. Thorat	Chemistry	Asian J. Research Chem	2012, 5(8), 1000-1010	0974-4169 for print and 0974-4150 online	--	--
Science	Synthesis and study of substitution effect of halogen on photophysical properties of anils	Dr. Babu R. Thorat	Chemistry	Journal of Chemical, Biological and Physical Sciences	2012-13, Vol. 3, No. 1, 479-489	2249 - 1929	--	--
Science	Synthesis and Fluorescence Study of Chlorine Substitution on Anils	Dr. Babu R. Thorat	Chemistry	Journal of Chemical, Biological and Physical Sciences	2012-13, Vol. 3, No. 1, 75-85	2249 - 1929	--	--
Science	Synthesis of diazo compounds from amino benzopyrano thiazoles	Dr. Babu R. Thorat	Chemistry	International Journal of Chemical Sciences and Applications	2012, Vol.3, Issue 3, 356-365	0976 - 2590; 2278 - 6015	--	--
Science	Synthesis and Biological Characterisation of hyadrazid	Dr. Babu R. Thorat	Chemistry	International Journal of Pharmaceutical Research and Development (IJPRD)	2012, Vol.4, 281-284	0974 - 9446	--	--

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	derivatives of 2-Acetylbenzofuran							
Science	Synthesis and fluorescence properties of schiff bases of 2-chloro-3-formlyquinoline	Dr. Babu R. Thorat	Chemistry	Research J. Pharm and Tech	March 2012, 5(3)	0974 - 3618; 0974 - 340X	--	--
Science	Study of thermodynamic parameters of oxidation of 2-Hydroxy-1-Naphthalideneanil and its substituted anils by potassium bromate in acidic medium	Dr. Babu R. Thorat	Chemistry	International Journals of Research in Chemistry and Environment	2012, Vol.2, Issue 2, 72-75	2248 - 9649	--	--
Science	Wittig Reaction approach for the Synthesis of 7-methoxy-2-[4-alkyl/aryl]-1-benzofuran-5-carboxaldehyde	Dr. Babu R. Thorat	Chemistry	Heterocyclic Letter (SJIF = 3.833)	2013, Vol.3:(3)	2230 - 9632 (Online); 2231 - 3087 (Print)	--	--
Science	Synthesis and Fluorescence properties of Schiff bases of 4-hydroxy-3-methoxy-5-nitrobenzaldehyde	Dr. Babu R. Thorat	Chemistry	Journal of Chemical and Pharmaceutical Research	2012, 4 (1): 18-26	0975 - 7384	--	--
Science	Synthesis and fluorescence study of Novel 4-{4-[2Z-2-(2-hydroxybenzylidene) hydrazine] benzyl}-1, 3 oxazolidin-2-one	Dr. Babu R. Thorat	Chemistry	Journal of Chemical, Biological and Physical Sciences	2012, Vol. 2, No. 4, 1693-1700	2249 - 1929	--	--
Science	Synthesis of novel Schiff bases of 4-hydroxy-3-methoxy-5-nitrobenzaldehyde and Development of HPLC Chromatographic Method for their analysis	Dr. Babu R. Thorat	Chemistry	Journal of Chemical and Pharmaceutical Research	2012, 4(1):14-17	0975 - 7384	--	--
Science	Synthesis of N-[[7-methoxy-2-(4-methoxyphenyl)-1-benzofuran-5-yl]methyl]cyclopentanamine by reductive amination	Dr. Babu R. Thorat	Chemistry	Heterocyclic Letter	2013, Vol. 3: (1), 163-169	2230 - 9632 (Online); 2231 - 3087 (Print)	--	--

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Science	Synthesis of 1-((7-methoxy-2-[4-(methylsulfanyl)phenyl]-1-benzofuran-5-yl)-N-[(N-ethylpyrrolidin-2-yl)methyl]methanamine by Reductive Amination	Dr. Bapu R. Thorat	Chemistry	Heterocyclic Letter	2013, Vol. 3: (3), 331-340	2230 – 9632 (Online); 2231 – 3087 (Print)	--	--
Science	SYNTHESIS AND COMPUTATION-AL STYDY OF 7-METHOXY-2-[4-METHOXYPHENYL]-1-BENZOFURAN-5-CARBOXALDEHYDE AND SYNTHESIS OF ITS SCHIFF BASES	Dr. Bapu R. Thorat	Chemistry	Heterocyclic Letter	2013, Vol. 3: (4), 461-479	2230 – 9632 (Online); 2231 – 3087 (Print)	--	--
Science	COST EFFECTIVE ONE POT SYNTHESIS OF 6-CHLORO-5-(2-CHLOROETHYL) OXINDOLE	Dr. Bapu R. Thorat	Chemistry	Heterocyclic Letter	2014, Vol. 4: (1), 93-99	2230 – 9632; 2231 - 3087	--	--
Science	SYNTHESIS OF SCHIFF BASES OF 7-METHOXY-2-[4-(METHYLSULFANYL)PHENYL]-1-BENZOFURAN-5-CARBOX ALDEHYDE AND ANIMES AND HYDRAZIDE	Dr. Bapu R. Thorat	Chemistry	Heterocyclic Letter	2014, Vol. 4: (1), 41-53	2230 - 9632; 2231 - 3087	--	--
Science	SYNTHESIS OF SECONDARY AMINES IN ONE STEP FROM 7-METHOXY-2-[4-(METHOXY)PHENYL]-1-BENZOFURAN-5-CARBOXALDEHYDE BY REDUCTIVE AMINATION	Dr. Bapu R. Thorat	Chemistry	Heterocyclic Letter	2014, Vol. 4: (3), 321-330	2230 – 9632 (Online); 2231 – 3087 (Print)	--	--
Science	Fluorescence Study of Zn (II), Cu (II), Ni (II) and La (III) complexes of 3-((E)-[(4-iodophenyl)imino]methyl)quinolin-2-ol.	Dr. Bapu R. Thorat	Chemistry	Heterocyclic Letter	2014, 4 (4), 525-535	2230 – 9632 (Online); 2231 – 3087 (Print)	--	--

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Science	SYNTHESIS, MOLECULAR DOCKING AND CYTOTOXIC STUDY OF 7-METHOXY-2-(3-METHOXYLPHENYL)-1-BENZOFURAN-5-CARBALDEHYDE	Dr. Babu R. Thorat	Chemistry	Heterocyclic Letter	2015, Vol. 5: (1), 59-77	2230 – 9632 (Online); 2231 – 3087 (Print)	--	--
Science	SYNTHESIS AND BIOLOGICAL ACTIVITY STUDIES OF SOME NOVEL SUBSTITUTED IMIDAZO[1,2-a]PYRIDINE	Dr. Babu R. Thorat	Chemistry	Heterocyclic Letters	2015, Vol. 5: (2), 177-184	2230 – 9632 (Online); 2231 – 3087 (Print)	--	--
Science	Synthesis and Molecular Docking of 7-Methoxy-2-Phenyl-1-Benzofuran-5-Carbaldehyde	Dr. Babu R. Thorat	Chemistry	Int J Comput Bioinfo In Silico Model	2015, Vol. 4, No. 1, 597-606	2320 - 0634	--	--
Science	SYNTHESIS, CHARACTERIZATION AND FLUORESCENCE STUDY OF N'-[(E)-(2-HYDROXYQUINOLIN-3-YL)METHYLIDENE]-1-BENZOFURAN-2-CARBOHYDRAZIDE AND ITS METAL COMPLEXES	Dr. Babu R. Thorat	Chemistry	Heterocyclic Letters	2015, Vol. 5: (2), 251-259	2230 – 9632 (Online); 2231 – 3087 (Print)	--	--
Science	Synthesis and anti-mycobacterium study of some fluorine containing Schiff bases of quinoline and their metal complexes	Dr. Babu R. Thorat	Chemistry	Der Pharma Chemica	2015, 7(5):207-215	0975 – 413X	--	--
Science	Fluorescence and molecular docking studies of some new Schiff bases of 6-chloro-2-hydroxyquinoline-3-carbaldehyde	Dr. Babu R. Thorat	Chemistry	J. Chem. Pharm. Res.	2015, 7(6):900-909	0975 – 7384	--	--
Science	SYNTHESIS, MOLECULAR DOCKING AND CYTOTOXIC STUDY OF 7-METHOXY-2-(4-METHYLPHENYL)-1-BENZOFURAN-5-CARBALDEHYDE	Dr. Babu R. Thorat	Chemistry	Journal of Advanced Bioinformatics Applications and Research	2015, Vol 6, Issue 3, 62-76	2278 – 6007 (Online); 0976 – 2604 (Print)	--	--
Science	Developments in Quinoline Synthesis: A Review	Dr. Babu R. Thorat	Chemistry	Heterocyclic Letters	2015, Vol. 5(3), 475-488,	2230 – 9632 (Online);	--	--



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						2231 – 3087 (Print)		
Science	Review: Synthesis and applications of Schiff bases	Dr. Babu R. Thorat	Chemistry	International Journal of Chemistry and Pharmaceutical Sciences	2015, 3(8): 1438–1444	2321 - 3132	--	--
Science	FLUORESCENCE AND ANTI-TB STUDY OF CHIRAL SCHIFF BASES OF (1R,2R)-(+)-1,2-DIPHENYLETHANE-1,2-DIAMINE AND THEIR TRANSITION METAL COMPLEXES	Dr. Babu R. Thorat	Chemistry	Journal of Chemical and Pharmaceutical Research	2015, 7(8):159-167	0975 – 7384	--	--
Science	REVIEW: SYNTHETIC ROUTES TO BENZOFURAN-BASED COMPOUNDS AND THEIR BIOLOGICAL APPLICATIONS	Dr. Babu R. Thorat	Chemistry	World Journal of Pharmaceutical Research	2015, Vol 4, Issue 10, 524-550	2277 – 7105	--	--
Science	ANTI-TB STUDY OF SOME NEW SCHIFF BASE DERIVATIVES OF 6-AMINOCOUMARIN	Dr. Babu R. Thorat	Chemistry	World Journal of Pharmaceutical Research	2015, Vol 4, Issue 09, 2250-2259	2277 – 7105	--	--
Science	SYNTHESIS, MOLECULAR DOCKING AND CYTOTOXIC STUDY OF 7-METHOXY-2-(3,4,5-TRIMETHOXYPHENYL)-1-BENZOFURAN-5-CARBALDEHYDE	Dr. Babu R. Thorat	Chemistry	World Journal of Pharmaceutical Research	2015, Vol. 4, Issue 10, 1650-1674	2277 – 7105	--	--
Science	Synthesis and biological evaluation of novel hydrazone derivatives of quinoline and their Cu(II) and Zn(II) complexes against mycobacterium tuberculosis	Dr. Babu R. Thorat	Chemistry	Bioinorganic Chemistry and Applications	Volume 2015, Article ID 153015, 14 pages	Article ID 153015	--	--
Science	Synthesis, molecular docking and cytotoxic study of 7-methoxy-2-(3,4-dimethoxyphenyl)-1-benzofuran-5-carbaldehyde	Dr. Babu R. Thorat	Chemistry	Der Pharma Chemica	2015, 7(9):130-144	0975 – 413X	--	--
Science	Synthesis, Molecular Docking and Anti-TB Activity of 1-Benzofuran-2-Carbohydrazide	Dr. Babu R. Thorat	Chemistry	Journal of chemical sciences	Photon 110 (2016) 279-291	7248 – 4712	--	--

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Science	Synthesis, SAR Study, Molecular Docking, HPLC Method Development and Anti-TB study of Novel 3-Chloro-N-([7-mehtoxy-2-(4-methoxyphenyl)-1-benzofuran-5-yl]methyl)aniline	Dr. Babu R. Thorat	Chemistry	chemical research review and letter	2015, 4(16), 1253-1268. Article CS29204610	2278 – 6783	--	--
Science	Synthesis, SAR, Molecular Docking and Anti-TB study of 3-Hydroxy-1-Benzofuran-2-Carbohydrazide	Dr. Babu R. Thorat	Chemistry	Asian J. Research Chem	2016, DOI - 10.5958/0974-4150.2016.00021.3	0974-4169 for print and 0974-4150 online	--	--
Science	Review: Anti-microbial importance of 1,3-thiazole derivatives	Dr. Babu R. Thorat	Chemistry	Heterocyclic Letters	2016, Vol. 6, No.2, 389-409	2230 – 9632 (Online); 2231 – 3087 (Print)	--	--
Science	Synthesis, structural studies and antituberculosis evaluation of new hydrazone derivatives of quinoline and their Zn(II) complexes	Dr. Babu R. Thorat	Chemistry	Journal of Saudi Chemical Society (IF-1.978)	2016, doi:10.1016/j.jscs.2016.04.003	1319-6103	--	--
Science	Synthesis, SAR, Molecular Docking and Antituberculosis Study of 3-Methyl-1-Benzofuran-2-Carbohydrazide	Dr. Babu R. Thorat	Chemistry	Asian Journal of Chemistry doi.org/10.14233/ajchem.2016.19894	2016, Vol. 28, No. 11, 2346-2352	0975-427X (Online) 0970-7077 (Print)	--	--
Science	Synthesis, Molecular Docking, SAR Study and Anti-TB Activity of 5-bromo-1-Benzofuran-2-Carbohydrazid,	Dr. Babu R. Thorat	Chemistry	Asian Journal of Organic & Medicinal Chemistry	2017, DOI:10.14233/ajomc.2016.AJOMC-P21	2456-8937	--	--
Science	Transition Metal Tetrahydro-Salophen Type Complexes: Synthesis, Characterization and Antitubercular Studies	Dr. Babu R. Thorat	Chemistry	Asian J. Research Chem	2017, DOI - 10.5958/0974-4150.2016.00064.X	0974-4169 for print and 0974-4150 online	--	--
Science	Zinc complexes of hydrazone derivatives bearing 3,4-dihydroquinolin-2(1H)-one nucleus as new anti-tubercular agents	Dr. Babu R. Thorat	Chemistry	Arabian Journal of Chemistry	2018, doi.- 10.1016/j.arabjc.2016.07.016	1878-5352	--	--
Science	Schiff bases of 5-bromo-1-Benzofuran-2-Carbohydrazide	Dr. Babu R. Thorat	Chemistry	J. of Physical and Chemical Sciences	2018, 6(2), 2-10. DOI: 10.5281/zenodo.1205726	2348 – 327X	--	--
Science	Synthesis and anti-tubercular study of some transition metal complexes of hydrazone derivatives derived from benzofuran-2-carbohydrazide	Dr. Babu R. Thorat	Chemistry	Der Pharma Chemica	2017, 9(3):45-53	0975 – 413X	--	--

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Science	Review on <i>Euphorbia nerifolia</i> Plant	Dr. Babu R. Thorat	Chemistry	Biomed J Sci & Tech Res	1(6)-2017. BJSTR. MS.ID.000523	2574-1241	--	--
Science	Review on <i>Celosia argentea</i> L. Plant	Dr. Babu R. Thorat	Chemistry	Research Journal of Pharmacognocny and Phytochemistry	2018; 10(1): 109-119. DOI: 10.5958/0975-4385.2018.00017.1	(ONLINE): 0975-4385; (PRINT) : 0975-2331	--	--
Science	A review on Phytochemistry and pharmacology of <i>Begonia malabarica</i> Lam	Dr. Babu R. Thorat	Chemistry	Asian Journal of Research in Pharmaceutical Science and Biotechnology	2018, 6(1), 6 - 15.	2349-7114	--	--
Science	Chemical extraction and biomedical importance of secondary organic metabolites from plants – A review	Dr. Babu R. Thorat	Chemistry	Journal of Biomedical and Therapeutic Sciences	2018, 5(1), 9-42	2394 – 2274	--	--
Science	Synthesis and SAR Study of 2-(4-cyano-2-methylphenoxy) acetohydrazide	Dr. Babu R. Thorat	Chemistry	J. of Physical and Chemical Sciences	2018, V6I3-04. DOI: 10.5281/zenodo.1303032	2348 – 327X	--	--
Science	Review on Medicinally important Weed - <i>Cyperus rotundus</i> L.,	Dr. Babu R. Thorat	Chemistry	Research Journal of Science and Technology	2018, 10(4), DOI:10.5958/2349-2988.2018.00042.6	(ONLINE): 2349-2988; (PRINT): 0975-4393	--	--
Science	Synthesis and Photophysical Properties of 2,2'-[Iminobis(2,1-ethanediyyliminomethylene)]diphenol and Its Zinc Complexes	Dr. Babu R. Thorat	Chemistry	<i>Adv. Org. Chem. Lett.</i>	2018, 5(1), 1-18	2348 – 1889	--	--
Science	Synthesis, SAR, Molecular Docking and Anti-Microbial Study of substituted N-bromoamido-2-aminobenzothiazoles	Dr. Babu R. Thorat	Chemistry	Current Computer-Aided Drug Design	2019, 15 DOI: 10.2174/15734099 156661909021436 48	1573-4099	--	--
Science	Synthesis, SAR, Molecular Docking and Anti-Microbial Study of substituted 2-aminobenzothiazoles derivatives	Dr. Babu R. Thorat	Chemistry	Current Computer-Aided Drug Design	2019, 16 DOI: 10.2174/15734099 156661912101256 47	1573-4099	--	--
Science	Synthesis and anti-mycobacterium study of halo-substituted 2-aryloxyacetohydrazones	Dr. Babu R. Thorat	Chemistry	Current Computer-Aided Drug Design	2019, 15 DOI: 10.2174/15734099 156661910181206 11	1573-4099	--	--
Science	Synthesis, In-silico and In-vitro Analysis of Hydrazones as Potential Antituberculosis Agents	Dr. Babu R. Thorat	Chemistry	Current Computer-Aided Drug Design	2019, 16 DOI: 10.2174/1573409916 666200302120942	1573-4099	--	--

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Science	Green Synthesis of Substituted Dihydropyrimidin-2(1H)-one by Using Zinc Chloride /Acetic Acid Catalytic System	Dr. Babu R. Thorat	Chemistry	Current Chinese Chemistry	2020, 1 DOI: 10.2174/2665997201 999200512110147	2666-0016 Bentham Science	--	--
Science	The Rise of New Coronavirus Infection (COVID-19): A Recent Update and Potential Therapeutic Candidates	Dr. Babu R. Thorat	Chemistry	Eurasian Journal of Medicine and Oncology	2020, 4(1), 35-41 DOI: 10.14744/ejmo.2020. 22222	--	--	--
Science	Synthesis, Spectroscopic, In-vitro and Computational Analysis of Hydrazones as Potential Antituberculosis Agents: (Part-I)	Dr. Babu R. Thorat	Chemistry	Combinatorial Chemistry & High Throughput Screening	2020, 23 DOI: 10.2174/1386207323 999200325125858	Bentham Science Publishers 1386-2073	--	--
Science	A Viewpoint on Angiotensin-Converting Enzyme 2, Anti-Hypertensives and Coronavirus Disease 2019 (COVID-19)	Dr. Babu R. Thorat	Chemistry	Infect Disord Drug Targets	2020 doi: 10.2174/18715265 206662005110055 46	Bentham Science Publishers 1871-5265	--	--
Science	Synthesis and Screening of Biologically active Schiff bases of Benzothiazoles and its Zinc and Lanthanum metal complexes	Dr. Babu R. Thorat	Chemistry	Oriental Journal of Chemistry	2021, 37(1), 187-193	0970-020X	--	--
Science	Synthesis, In-Silico Potential Enzymatic Target Predictions, Pharmacokinetics, Toxicity, Anti-Microbial and Anti-Inflammatory Studies of Bis-(2-methylindolyl) Methane Derivatives	Dr. Babu R. Thorat	Chemistry	Current Enzyme Inhibition	2021, 17	Bentham Science Publishers 1573-4080	--	--
Science	Experimental and Computational insights on Bis-indolylmethane Derivatives as potent antimicrobial agents inhibiting 2,2-dialkylglycine decarboxylase	Dr. Babu R. Thorat	Chemistry	Current Enzyme Inhibition	2021 DOI:10.2174/15734 080176662109141 05731	Bentham Science Publishers 1573-4080	--	--
Science	Mini Review of the importance of hydrazides and their derivatives: synthesis and biological activities,	Dr. Babu R. Thorat	Chemistry	Eng. Proceedings (under process)	2021, 11, <a href="https://doi.org/10.3390/ASEC2021-11157">https://doi.org/10.3390/ASEC2021-11157</a>	MDPI Publishers	--	--
Science	Greener Synthesis, In-silico and theoretical analysis of hydrazones as potential antituberculosis agents	Dr. Babu R. Thorat	Chemistry	MDPI journals, Proceedings	2021, 68 doi.org/10.3390/ecso c-25-11655	MDPI Publishers	--	--

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Science	Multiple 3D- and 2D-Quantitative Structure-Activity Relationship Models (QSAR), Theoretical Study and Molecular Modeling to Identify Structural Requirements of Imidazopyridine Analogues as Anti-infective Agents against Tuberculosis	Dr. Babu R. Thorat	Chemistry	Structural Chemistry	2022, <a href="https://doi.org/10.1007/s11224-022-01879-2">https://doi.org/10.1007/s11224-022-01879-2</a>	Springer	--	--
Science	L-Proline Catalyzed Knoevenagel Condensation of Aldehydes with active Methylene Compounds and Their Molecular Modeling Studies for Anti-SARS CoV-2 Potentials	Dr. Babu R. Thorat	Chemistry	Current Enzyme Inhibition	Accepted	Bentham Science Publishers	--	--
Science	Synthesis and Antimycobacterial Study of Novel Benzofuran Derivatives	Dr. Babu R. Thorat	Chemistry	Current Enzyme Inhibition	Under review	Bentham Science Publishers	--	--
Science	Extensive Multiple 2D-/3D-QSAR modelling, and Pharmacophoric approaches for piperazinylquinoline derivatives as Respiratory Syncytial Virus Fusion inhibitors	Dr. Babu R. Thorat	Chemistry	Recent Advances in Anti-Infective Drug Discovery(PRI)	Under review	Bentham Science Publishers	--	--
Science	Synthesis, Molecular docking, Antioxidant, Anti-TB, and potent MCF-7 anticancer studies of Novel Aryl-carbohydrazide analogues	Dr. Babu R. Thorat	Chemistry	Current Computer-Aided Drug Design	Under review	Bentham Science Publishers	--	--
Science	L-Proline: A Versatile Organo-Catalyst in Organic Chemistry	Dr. Babu R. Thorat	Chemistry	Combinatorial Chemistry & High Throughput Screening	Under review	Bentham Science Publishers 1386-2073	--	--
Science	Synthesis, Molecular docking and In-Vitro Antimycobacterial Studies on N'-arylidene-4-nitrobenzohydrazides	Dr. Babu R. Thorat	Chemistry	Recent Advances in Anti-Infective Drug Discovery(PRI)	Under review	Bentham Science Publishers	--	--

**D. Research Projects:**

**1. Major Research Projects:**

Year	Faculty	Name of the research Project	Name of the Principal Investigator	Department of Principal Investigator	Name of funding agency	Funds sanction or received	Year of sanction or completed or submission	Duration of the project
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**2. Minor Research Projects:**

Year	Faculty	Name of the research Project	Name of the Principal Investigator	Department of Principal Investigator	Name of funding agency	Funds sanction or received	Year of sanction or completed or submission	Duration of the project

**3. BOS sanctioned or Collaborative or Industrial sanctioned Research Projects:**

Year	Faculty	Name of the research Project	Name of the Principal Investigator	Department of Principal Investigator	Name of funding agency	Funds sanction or received	Year of sanction or completed or submission	Duration of the project

**E. Received awards/Prices, recognition, fellowships at State, National, International level from Government, recognized bodies.**

Year of award	Faculty	Department	Name of full time teachers receiving awards from state level, national level, international level	PAN	Designation	Name of the award, fellowship, received from Government or recognized bodies	Name of the awarding agency	Incentive details

**F. Number of books and chapters in edited volumes / books published:**

Year	Name of the Author	Faculty	Department	Title of the book/chapters published	Reference/Text book	ISBN/ISSN number Book	Affiliating Institute at the time of publication	Name of the publisher and status
	Dr. Bapu R. Thorat	Science	Chemistry	HPLC method validation: benzofuran derivatives	Reference Book First Author	ISBN: 978-3846519660	I. Y. College, Mumbai	LAP LAMBERT Academic Publishing

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Dr. Bapu R. Thorat	Science	Chemistry	7-Methoxy-2-Phenyl-1-Benzofuran-5-Carbaldehyde: Computational study, Synthesis, Characterization and MTT & MB assay.	Reference Book First Author	ISBN 978-3-8484-4592-9	I. Y. College, Mumbai	LAP LAMBERT Academic Publishing, 2014
Dr. Bapu R. Thorat	Science	Chemistry	Handbook of Organic Chemistry Practical	Practical Handbook First Author	ISBN: 978-81-920431-6-6	I. Y. College, Mumbai	ISST, Mumbai, 2013
Dr. Bapu R. Thorat	Science	Chemistry	SYNTHESIS AND MOLECULAR DOCKING OF 5-[(4-FLUOROPHENOXY)METHYL]-7-METHOXY-2-(4-METHOXYPHENYL)-1-BENZOFURAN BY USING MITSUNOBU REACTION	Reference Book First Author	ISBN 978-3-659-67214-9	I. Y. College, Mumbai	LAP LAMBERT Academic Publishing
Dr. Bapu R. Thorat	Science	Chemistry	Computational Study of 1-Benzofuran Derivatives: Molecular Docking	Reference Book First Author	ISBN: 978-3-659-83471-4	I. Y. College, Mumbai	LAP LAMBERT Academic Publishing, Germany
Dr. Bapu R. Thorat	Science	Chemistry	Review: Biological Importance of 1,3-Thiazole Derivatives	Reference Book First Author	ISBN: 978-3-659-86131-4	I. Y. College, Mumbai	LAP LAMBERT Academic Publishing, Germany
Dr. Bapu R. Thorat	Science	Chemistry	Review: Synthetic Methods and Anti-microbial Importance of Thiazole	Reference Book First Author	ISBN: 978-3-659-86201-4	I. Y. College, Mumbai	LAP LAMBERT Academic Publishing, Germany
Dr. Bapu R. Thorat	Science	Chemistry	Review – Antimicrobial Importance and Synthesis of Coumarin Derivatives	Reference Book First Author	ISBN: 978-3-659-88134-3	I. Y. College, Mumbai	LAP LAMBERT Academic Publishing, Germany
Dr. Bapu R. Thorat	Science	Chemistry	Handbook of Chemistry Practicals	Reference Book First Author	ISBN: 978-3-659-89584-5	I. Y. College, Mumbai	LAP LAMBERT Academic Publishing, Germany
Dr. Bapu R. Thorat	Science	Chemistry	Review: Synthesis and Biological Importance of Benzofuran Derivatives	Reference Book First Author	ISBN: 978-3-659-93402-5	I. Y. College, Mumbai	LAP LAMBERT Academic Publishing, Germany
Dr. Bapu R. Thorat	Science	Chemistry	Isolation, Purification and Estimation of Organic Compounds	Reference Book First Author	ISBN: 978-3-659-96941-5	I. Y. College, Mumbai	LAP LAMBERT Academic Publishing, Germany
Dr. Bapu R. Thorat	Science	Chemistry	General Chemistry Part - I	Text Book	ISBN: 978-620-2-02644-2	I. Y. College, Mumbai	LAP LAMBERT Academic Publishing, Germany

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	Dr. Bapu R. Thorat	Science	Chemistry	General Chemistry	Text Book	ISBN: 978-613-6-58969-5	I. Y. College, Mumbai	LAP LAMBERT Academic Publishing, Germany
	Dr. Bapu R. Thorat	Science	Chemistry	Multi-Component Organic Reactions – Roll of ZnCl <sub>2</sub> and CaCl <sub>2</sub>	Reference book	ISBN: 978-613-9-95848-1	I. Y. College, Mumbai	LAP LAMBERT Academic Publishing, Germany
	Dr. Bapu R. Thorat	Science	Chemistry	Handbook of Experimental Physical Chemistry	Reference Book	ISBN-978-613-8-59230-3	I. Y. College, Mumbai	Scholar's Press, International Book Market Service Ltd., Beau Bassin, Mauritius – 71504
	Dr. Bapu R. Thorat	Science	Chemistry	Anti-Mycobacterium Tuberculosis study of Natural and Synthetic compounds	Reference Book	ISBN-978-613-8-84047-3	I. Y. College, Mumbai	Scholar's Press, International Book Market Service Ltd., Beau Bassin, Mauritius – 71504
	Dr. Bapu R. Thorat	Science	Chemistry	General Chemistry Part - 2	Text Book	ISBN: 978-620-0-29569-9	I. Y. College, Mumbai	LAP LAMBERT Academic Publishing, Germany
	Dr. Bapu R. Thorat	Science	Chemistry	Physical and Analytical Chemistry	Text Book	ISBN: 979-81-9204-3219	I. Y. College, Mumbai	Ramesh Yamgar Research Group, Mumbai
2021-22	Dr. Bapu R. Thorat	Science	Chemistry	Handbook of Practical Chemistry (for B.Sc. Students)	Reference Book First Author	ISBN: 978-620-4-71531-5	Govt. College of Arts and Science, Aurangabad	LAP LAMBERT Academic Publishing, Germany

**G. Number of papers in national/international conference-proceedings per teacher presented/published.**

Year	Name of Teacher	Faculty	Department	Title of the paper presented/published	Title of the proceedings of the conference	Name of the conference	Date of conference	ISBN/ISSN number of the proceeding	Venue
2018-19	Dr. Bapu R. Thorat	Science	Chemistry	Synthesis of 5-ethoxy carbonyl-4-phenyl-6-methyl-3,4-dihydropyrimidin-2(1H)-one by using Transition metal chlorides in acetic acid	--	International conference on Challenges in Environmental Management	24/01/2019	--	Patkar-Verde College, Goregaon (W), Mumbai



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2016-17	Dr. Bapu R. Thorat	Science	Chemistry	Use of computer programmes in chemical research	--	National Seminar on Emerging trends in chemical sciences (ETCS) sponsored by UGC	20-21 Jan 2017	--	P. V. P. College, Pravaranagar, Tal-Rahata, Dist - Ahmednagar
2016-17	Dr. Bapu R. Thorat	Science	Chemistry	SAR, Molecular Docking, Synthesis and Anti-TB Activity of 1-Benzofuran-2-Carbohydrazide	--	New Horizons on Chemical and Environment Science	30 Jan 2016	--	Modern College, Vashi (Navi Mumbai)
2014-15	Dr. Bapu R. Thorat	Science	Chemistry	SYNTHESIS, CHARACTERIZATION AND FLUORESCENCE STUDY OF <i>N'</i> -[( <i>E</i> )-(2-HYDROXYQUINOLIN-3-YL)METHYLIDENE]-1-BENZOFURAN-2-CARBOHYDRAZIDE AND ITS METAL COMPLEXES	--	Workshop on Green Chemistry	23 Jan 2015	--	Elphiston College, Mumbai
2014-15	Dr. Bapu R. Thorat	Science	Chemistry	SYNTHESIS, MOLECULAR DOCKING AND CYTOTOXIC STUDY OF 7-METHOXY-2-(3-METHOXYLPHENYL)-1-BENZOFURAN-5-CARBALDEHYDE	--	Workshop on Green Chemistry	23 Jan 2015	--	Elphiston College, Mumbai
2013-14	Dr. Bapu R. Thorat	Science	Chemistry	SYNTHESIS, CHARACTERIZATION AND ANTI-CANCER PROPERTIES OF BIOLOGICALLY ACTIVE BENZOFURANS AND ITS COMPLEXES	--	Research Scholar Meet 2014 (RSM 2014)	8-9 Feb 2014	--	RSM Mumbai
2012-13	Dr. Bapu R. Thorat	Science	Chemistry	Synthesis of synthetically important 7-methoxy-2-[4-alkyl/aryl]-1-benzofuran-5-carboxyaldehyde	--	New Horizons in Chemistry	22-23 Oct. 2012	--	Thakur College, Kandivali (E), Mumbai
2012-13	Dr. Bapu R. Thorat	Science	Chemistry	Synthesis of synthetically important 7-methoxy-2-[4-alkyl/aryl]-1-benzofuran-5-carboxyaldehyde	--	Phytochemistry: Recent Trends and Challenges	14-15 Dec. 2012	--	Bandodkar College, Thane
2011-12	Dr. Bapu R. Thorat	Science	Chemistry	Fluorescence study of zn (ii), cu (ii) and la (iii) complexes 3 - {(e) - {(4-iodopheny1) imino } methy1} quinolin -2-ol.	Proceeding of National Conference on "Advanced Materials in Industries	Advanced Materials in Industries	10 <sup>th</sup> & 11 <sup>th</sup> Feb. 2012	978-81-920431-1-1	Govt. of Maharashtra Ismail Yusuf College, Jogeshwari (E), Mumbai - 400060.

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2011-12	Dr. Bapu R. Thorat	Science	Chemistry	Synthesis of novel 3-chloro-n-((7-methoxy-2(4-methoxyphenyl)-1-benzofuran-5-yl)methyl) aniline and its hplc method development.	Proceeding of National Conference on "Advanced Materials in Industries	Advanced Materials in Industries	10 <sup>th</sup> & 11 <sup>th</sup> Feb. 2012	978-81-920431-1-1	Govt. of Maharashtra Ismail Yusuf College, Jogeshwari (E), Mumbai – 400060.
2011-12	Dr. Bapu R. Thorat	Science	Chemistry	Synthesis of novel 4-((e)-hydrazinylidenemethyl)-2-methoxy-6-Nitrophenol derivatives.	Proceeding of National Conference on "Advanced Materials in Industries	Advanced Materials in Industries	10 <sup>th</sup> & 11 <sup>th</sup> Feb. 2012	978-81-920431-1-1	Govt. of Maharashtra Ismail Yusuf College, Jogeshwari (E), Mumbai – 400060.
2011-12	Dr. Bapu R. Thorat	Science	Chemistry	Fluorescence study of Co(II), Ni(II), Cu(II) and Zn(II) complex of 8-((e)-{3-(dimethylamino) propyl}imino)methyl]-7-hydroxy-4-Methyl-2h-chromen-2-one.	Proceeding of National Conference on "Advanced Materials in Industries	Advanced Materials in Industries	10 <sup>th</sup> & 11 <sup>th</sup> Feb. 2012	978-81-920431-1-1	Govt. of Maharashtra Ismail Yusuf College, Jogeshwari (E), Mumbai – 400060.
2011-12	Dr. Bapu R. Thorat	Science	Chemistry	Synthesis characterisation and photophysical properties of 2,2'-{ethane-1,2-dilybis(nitrilo(1e) prop-1-yl-1-ylidene)} diphenol and its Cu(II), Zn(II) and La(II) complexes.	Proceeding of National Conference on "Advanced Materials in Industries	Advanced Materials in Industries	10 <sup>th</sup> & 11 <sup>th</sup> Feb. 2012	978-81-920431-1-1	Govt. of Maharashtra Ismail Yusuf College, Jogeshwari (E), Mumbai – 400060.
2011-12	Dr. Bapu R. Thorat	Science	Chemistry	Fluorescence study of Schiff bases of 3, 4-dihydroxy-5-nitrobenzaldehyde.	Proceeding of National Conference on "Advanced Materials in Industries	Advanced Materials in Industries	10 <sup>th</sup> & 11 <sup>th</sup> Feb. 2012	978-81-920431-1-1	Govt. of Maharashtra Ismail Yusuf College, Jogeshwari (E), Mumbai – 400060.

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2011-12	Dr. Bapu R. Thorat	Science	Chemistry	Synthesis and fluorescence properties of 3-{(e)-[phenylimino] methyl} quinolin-2-ol and its Cu(II), Ni(II), Zn(II) and La(II).	Proceeding of National Conference on "Advanced Materials in Industries	Advanced Materials in Industries	10 <sup>th</sup> & 11 <sup>th</sup> Feb. 2012	978-81-920431-1-1	Govt. of Maharashtra Ismail Yusuf College, Jogeshwari (E), Mumbai – 400060.
2011-12	Dr. Bapu R. Thorat	Science	Chemistry	Synthesis of N-(1-Benzofuran-2-ylmethyl)-Chloroaniline.	Proceeding of National Conference on "Advanced Materials in Industries	Advanced Materials in Industries	10 <sup>th</sup> & 11 <sup>th</sup> Feb. 2012	978-81-920431-1-1	Govt. of Maharashtra Ismail Yusuf College, Jogeshwari (E), Mumbai – 400060.
2011-12	Dr. Bapu R. Thorat	Science	Chemistry	Synthesis of novel N-(E)-{3-(trifluoromethoxy)phenyl} methylidene}-1-3-benzothiazole-2-amine	Proceeding of National Conference on "Advanced Materials in Industries	Advanced Materials in Industries	10 <sup>th</sup> & 11 <sup>th</sup> Feb. 2012	978-81-920431-1-1	Govt. of Maharashtra Ismail Yusuf College, Jogeshwari (E), Mumbai – 400060.
2011-12	Dr. Bapu R. Thorat	Science	Chemistry	Synthesis of 7-Methoxy-2-[4-alkyl/aryl]-1-benzofuran-5-carboxaldehyde	Proceeding of National Conference on "Advanced Materials in Industries	Advanced Materials in Industries	10 <sup>th</sup> & 11 <sup>th</sup> Feb. 2012	978-81-920431-1-1	Govt. of Maharashtra Ismail Yusuf College, Jogeshwari (E), Mumbai – 400060.

**i. Patents:**

Year	Name of Teacher	Faculty	Department	Title of the patent	Date of filling patent & application number	Date of Award of patent	Patent Number	Indian or World Patent
2015-16	Dr. Bapu R. Thorat	Science	Chemistry	ONE POT, GREEN SYNTHESIS OF 4-[2-[(4-METHOXYPHENYL)-1-METHYLPROPYL]AMINO]	--	07.03.2016	201621007810	Indian

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				ETHYL-1,2-DIMETHOXYBENZENE HYDROCHLORIDE				
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**8. To Organize Seminar / Conferences / Workshops:**

Year	Name of teacher	Faculty	Department	Status (International/National /State/BOS)	Mode (Online/offline)	Name/Theme of Seminar/conference/ workshop	Work As	Duration
2021-22	Dr. Bapu R. Thorat	Science	Chemistry	National	Online	Advance Materials in Research and Industries	Convenor	28/01/2022
2017-18	Dr. Bapu R. Thorat	Science	Chemistry	College Level	Offline	College level different Scientific activities: Demonstration computation	Organizing secretary	28/02/2018
2015-16	Dr. Bapu R. Thorat	Science	Chemistry	State	Offline	Hands on training of Optical spectrometric methods of analysis	Organizing secretary	08/08/2015
2015-16	Dr. Bapu R. Thorat	Science	Chemistry	College Level	Offline	Using Molecular Personalities for Smarter MedChem Design and SAR Analysis: The Cresset Approach	Organizing secretary	25/11/2015
2015-16	Dr. Bapu R. Thorat	Science	Chemistry	College Level	Offline	Poster making Computation	Organizing secretary	13/02/2016
2011-12	Dr. Bapu R. Thorat	Science	Chemistry	National	Offline	National Seminar on Advance Materials in Industries	Convenor	10-11/02/2012

**9. To attend Seminar / Conferences / Workshops:**

Year	Name of teacher	Faculty	Department	Status (International/National /State/BOS)	Mode (Online/offline)	Name/Theme of Seminar/conference/ workshop	Name of the professional body	Duration	Amount of support
2002-2003	Dr. Bapu R. Thorat	Science	Chemistry	National	Offline	National Workshop on Multi Dimensional NMR spectroscopy	Ahmednagar College, Ahmednagar	18-19 Jan. 2003	--
2003-04	Dr. Bapu R. Thorat	Science	Chemistry	National	Offline	Designing organic synthesis and spectroscopy	R. B. N. B. College, Shrirampur, Ahmednagar	10 Jan. 2004	--

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2005-06	Dr. Bapu R. Thorat	Science	Chemistry	National	Offline	Strategic Measures for Quality Enhancement in NAAC accredited colleges	P. V. P. College, Pravaranagar, Loni Bk., Tal. Rahata, Ahmednagar	21-22 Jan. 2006	--
2007-08	Dr. Bapu R. Thorat	Science	Chemistry	National	Offline	Recent Trends in Chemistry	R. B. N. B. College, Shrirampur, Ahmednagar	04-05 Jan. 2008	--
2009-20	Dr. Bapu R. Thorat	Science	Chemistry	<b>University</b>	Offline	Revised Syllabus of Inorganic Chemistry for S. Y. B. Sc.	BOS, University of Mumbai, Mumbai	23 June. 2009	--
2010-11	Dr. Bapu R. Thorat	Science	Chemistry	<b>College</b>	Offline	Significance of Research for Teachers in changing Era	Ismail Yusuf College, Mumbai	01 April 2010	--
2010-11	Dr. Bapu R. Thorat	Science	Chemistry	National	Offline	Recent Advances in Bioanalytical Techniques	Patkar Varde College, Goregaon, Mumbai	10-11 Dec. 2010	--
2010-11	Dr. Bapu R. Thorat	Science	Chemistry	National	Offline	Recent Developments in Analysis for Developing Pharmaceutical Drugs	Satral College, Satral, Rahta, Ahmednagar	31 Jan. 2011	--
2011-12	Dr. Bapu R. Thorat	Science	Chemistry	National	Offline	Research in Organic Chemistry in Colleges and Industries	RBNB College, Shrirampur, Ahmednagar	14-16 Feb. 2012	--
2012-13	Dr. Bapu R. Thorat	Science	Chemistry	International	Offline	Drug Discovery for Infectious Diseases and Cancer (DDIDC)	ICT, Matunga, Mumbai	16-17 Jan. 2013	--
2012-13	Dr. Bapu R. Thorat	Science	Chemistry	National	Offline	Two Day National Conference on 'New Horizons in Chemistry'	Thakur College, Kandivali, Mumbai	22-23 Oct. 2012	--
2014-15	Dr. Bapu R. Thorat	Science	Chemistry	National	Offline	Workshop on Green Chemistry	Elphistone College, Mumbai	21 Jan. 2015	--
2015-16	Dr. Bapu R. Thorat	Science	Chemistry	State	Offline	Hands on Training of Optical Spectrometric Methods of Analysis	Government of Maharashtra's Ismail Yusuf College	8 Aug. 2015	--

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2015-16	Dr. Bapu R. Thorat	Science	Chemistry	College Level	Offline	Using Molecular Personalities for Smarter Med Chem Design and SAR Analysis, a Cresset Approach	Government of Maharashtra's Ismail Yusuf College	25 Nov. 2015	--
2015-16	Dr. Bapu R. Thorat	Science	Chemistry	National	Offline	New Horizons in Chemical and Environment Sciences	Karmaveer Bhaurao Patil College, Vashi, Mumbai	30 Jan 2016	--
2015-16	Dr. Bapu R. Thorat	Science	Chemistry	University	Offline	Revised Syllabus of T. Y. B. Sc. (Chemistry)	Bhavan's College, Andheri, Mumbai	29 Feb. 2016	--
2019-20	Dr. Bapu R. Thorat	Science	Chemistry	College Level	Online	High Performance Thin Layer Chromatography Instrumentation and Applications	Anchrom Enterprises (I) Pvt. Ltd., Mumbai	08, May 2020	--
2019-20	Dr. Bapu R. Thorat	Science	Chemistry	College Level	National	Post COVID-19: Science and Technology	SRM-University-AP	29, May 2020	
2021-22	Dr. Bapu R. Thorat	Science	Chemistry	International	Online	Advanced Horizons in Chemical Sciences-2021	Arts, Commerce & Science college, Satral, Tal-Rahata, (M.S.)	26-27, Oct. 2021	--
2021-22	Dr. Bapu R. Thorat	Science	Chemistry	International	Online	International e-conference on Sustainable & Futuristic Materials (SFM-2021)	J. M. Patel Arts, Commerce and Science, Bhandara	29-30, Nov. 2021	--

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2021-22	Dr. Bapu R. Thorat	Science	Chemistry	National	Online	Green chemistry for sustainable future	J. M. Patel Arts, Commerce and Science, Bhandara	21-22, Jan. 2022	--
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**10. E-content developed by teachers such as: e-PG-Pathshala, CEC (under e-PG-Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc.**

Year	Name of the teacher	Faculty	Name of the module	Department	Platform on which module is developed	Date of launching e-content	Link of module

**11. Teachers using ICT or innovative process developed in Teaching and Learning:**

Year	Name of Teacher	Faculty	Department	Class	ICT tool used for teaching & demonstration	ICT tool develop (link)	E-resources and techniques used
From 2016-17	Dr. Bapu R. Thorat	Science	Chemistry	UG	PPT and demonstration	1. <a href="http://www.authorstream.com/Presentation/bapu456207-2919067-chemical-kinetics/">http://www.authorstream.com/Presentation/bapu456207-2919067-chemical-kinetics/</a> 2. <a href="http://www.authorstream.com/Presentation/bapu456207-2919068-complexometric-titration/">http://www.authorstream.com/Presentation/bapu456207-2919068-complexometric-titration/</a> 3. <a href="http://www.authorstream.com/Presentation/bapu456207-2919072-electrolytic-conductance/">http://www.authorstream.com/Presentation/bapu456207-2919072-electrolytic-conductance/</a> 4. <a href="http://www.authorstream.com/Presentation/bapu456207-2919075-photochemistry/">http://www.authorstream.com/Presentation/bapu456207-2919075-photochemistry/</a> 5. <a href="http://www.authorstream.com/Presentation/bapu456207-2919076-physical-chemistry/">http://www.authorstream.com/Presentation/bapu456207-2919076-physical-chemistry/</a> 6. <a href="http://www.authorstream.com/Presentation/bapu456207-2919081-titrimetric-acid-base-titration/">http://www.authorstream.com/Presentation/bapu456207-2919081-titrimetric-acid-base-titration/</a> 7. <a href="http://www.authorstream.com/Presentation/bapu456207-2919086-atom/">http://www.authorstream.com/Presentation/bapu456207-2919086-atom/</a> 8. <a href="http://www.authorstream.com/Presentation/bapu456207-2919089-stereochemistry-reactionmechanism/">http://www.authorstream.com/Presentation/bapu456207-2919089-stereochemistry-reactionmechanism/</a>	PPT

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						<p>9. <a href="http://www.authorstream.com/Presentation/bapu456207-2919361-sc-sem/">http://www.authorstream.com/Presentation/bapu456207-2919361-sc-sem/</a></p> <p>10. <a href="https://www.scribd.com/document/333162469/Polymer-Chemistry">https://www.scribd.com/document/333162469/Polymer-Chemistry</a></p> <p>11. <a href="https://www.scribd.com/document/333162261/Photo-Chemistry">https://www.scribd.com/document/333162261/Photo-Chemistry</a></p> <p>12. <a href="https://www.scribd.com/presentation/333159386/Liquid-State">https://www.scribd.com/presentation/333159386/Liquid-State</a></p> <p>13. <a href="https://www.scribd.com/document/33315942/Electrolytic-Conductance">https://www.scribd.com/document/33315942/Electrolytic-Conductance</a></p> <p>14. <a href="https://www.scribd.com/document/333160209/Nuclear-Chemistry">https://www.scribd.com/document/333160209/Nuclear-Chemistry</a></p> <p>15. <a href="https://www.scribd.com/document/333160243/Performance-Characteristic">https://www.scribd.com/document/333160243/Performance-Characteristic</a></p> <p>16. <a href="https://www.scribd.com/document/333160292/Precipitation-Titration">https://www.scribd.com/document/333160292/Precipitation-Titration</a></p> <p>17. <a href="https://www.scribd.com/document/333160446/SY-Second-Term-Phase-Rule">https://www.scribd.com/document/333160446/SY-Second-Term-Phase-Rule</a></p> <p>18. <a href="https://www.scribd.com/document/333161236/T-Y-Physical-Spectroscopy">https://www.scribd.com/document/333161236/T-Y-Physical-Spectroscopy</a></p> <p>19. <a href="https://www.scribd.com/document/333161591/Electrochemistry">https://www.scribd.com/document/333161591/Electrochemistry</a></p> <p>20. <a href="https://www.scribd.com/document/333161613/Mechanism-of-Organic-Reactions">https://www.scribd.com/document/333161613/Mechanism-of-Organic-Reactions</a></p> <p>21. <a href="https://www.scribd.com/document/333161784/S-Y-Organic">https://www.scribd.com/document/333161784/S-Y-Organic</a></p> <p>22. <a href="http://www.slideshare.net/baputhorat/alcohol-chemistry">www.slideshare.net/baputhorat/alcohol-chemistry</a></p> <p>23. <a href="http://www.slideshare.net/baputhorat/alkyl-halide-reactions">www.slideshare.net/baputhorat/alkyl-halide-reactions</a></p> <p>24. <a href="http://www.slideshare.net/baputhorat/epoxide">www.slideshare.net/baputhorat/epoxide</a></p> <p>25. <a href="http://www.slideshare.net/baputhorat/organomagnesium-and-lithium">www.slideshare.net/baputhorat/organomagnesium-and-lithium</a></p> <p>26. <a href="http://www.slideshare.net/baputhorat/sy-carboxylic-acid">www.slideshare.net/baputhorat/sy-carboxylic-acid</a></p> <p>27. <a href="http://www.slideshare.net/baputhorat/thermodynamics-1-108620015">www.slideshare.net/baputhorat/thermodynamics-1-108620015</a></p>
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						<p>28. <a href="http://www.slideshare.net/baputhorat/sy-second-term-phase-rule">www.slideshare.net/baputhorat/sy-second-term-phase-rule</a></p> <p>29. <a href="http://www.slideshare.net/baputhorat/photochemistry-108620321">www.slideshare.net/baputhorat/photochemistry-108620321</a></p> <p>30. <a href="http://www.slideshare.net/baputhorat/mo-theory-115744359">www.slideshare.net/baputhorat/mo-theory-115744359</a></p> <p>31. <a href="http://www.slideshare.net/baputhorat/valance-bond-theory">www.slideshare.net/baputhorat/valance-bond-theory</a></p> <p>32. <a href="https://www.slideshare.net/baputhorat/first-and-second-law-thermodynamics-sy-p-8">https://www.slideshare.net/baputhorat/first-and-second-law-thermodynamics-sy-p-8</a></p>	
	Dr. Bapu R. Thorat	Science	Chemistry	PG	PPT and demonatration	<p>1. <a href="https://www.scribd.com/document/333160360/Spectroscopy">https://www.scribd.com/document/333160360/Spectroscopy</a></p> <p>2. <a href="https://www.scribd.com/document/333161026/Organometallic-Compounds">https://www.scribd.com/document/333161026/Organometallic-Compounds</a></p> <p>3. <a href="https://www.scribd.com/document/333161116/Reagent-and-Catalysis">https://www.scribd.com/document/333161116/Reagent-and-Catalysis</a></p> <p>4. <a href="https://www.scribd.com/document/333161165/Stereochemistry-MSc">https://www.scribd.com/document/333161165/Stereochemistry-MSc</a></p> <p>5. <a href="https://www.scribd.com/document/333162652/Oxidation-Reduction">https://www.scribd.com/document/333162652/Oxidation-Reduction</a></p> <p>6. <a href="https://www.scribd.com/document/333162805/Planning-of-Organic-Synthesis-01">https://www.scribd.com/document/333162805/Planning-of-Organic-Synthesis-01</a></p> <p>7. <a href="https://www.scribd.com/document/333162861/Prof-B-R-thorat-1H-NMR-Spectroscopy-Copy">https://www.scribd.com/document/333162861/Prof-B-R-thorat-1H-NMR-Spectroscopy-Copy</a></p> <p>8. <a href="https://www.scribd.com/document/333162903/Spectral-Interpretation">https://www.scribd.com/document/333162903/Spectral-Interpretation</a></p> <p>9. <a href="https://www.scribd.com/document/333162945/Stereochemistry-MSc">https://www.scribd.com/document/333162945/Stereochemistry-MSc</a></p> <p>10. <a href="https://www.scribd.com/document/333163352/NET-SET-Photochem">https://www.scribd.com/document/333163352/NET-SET-Photochem</a></p> <p>11. <a href="https://www.scribd.com/document/333163414/Problems-on-Named-Reactions">https://www.scribd.com/document/333163414/Problems-on-Named-Reactions</a></p> <p>12. <a href="https://www.scribd.com/document/333163575/SET-NET-Spectroscopy-Numericals">https://www.scribd.com/document/333163575/SET-NET-Spectroscopy-Numericals</a></p>	PPT



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2018-19	Dr. Bapu R. Thorat	Science	Chemistry	Pericyclic and Photochemical reactions	Pericyclic and Photochemical reactions	14-15 <sup>th</sup> Sept 2018	R. B. N. B. College, Shrirampur, Ahmednagar (M.S.)	College level
2017-18	Dr. Bapu R. Thorat	Science	Chemistry	Advance spectroscopic methods and its applications in Pharma. Industry and organic synthesis	Spectroscopic Techniques	27 <sup>th</sup> Dec 2017	R. B. N. B. College, Shrirampur, Ahmednagar (M.S.)	National Seminar
2016-17	Dr. Bapu R. Thorat	Science	Chemistry	A Gateway to Qualify SET/NET exam	Gateway to NET/SET Exams in Chemical Sciences	19 <sup>th</sup> Jan 2017	M. J. S. Mahavidyalaya, Shrigonda, Ahmednagar (M.S.) 413 701	State Level Workshop
2015-16	Dr. Bapu R. Thorat	Science	Chemistry	Pericyclic chemistry	SET-NET UGC sponsored lecture series	28/02/2016	Patkar-Verde College, Goregaon (W), Mumbai	UGC sponsored
2014-15	Dr. Bapu R. Thorat	Science	Chemistry	Organo-metallic chemistry	SET-NET UGC sponsored lecture series	08/03/2015	Patkar-Verde College, Goregaon (W), Mumbai	UGC sponsored
2013-14	Dr. Bapu R. Thorat	Science	Chemistry	SET-NET UGC sponsored lecture series	Thermal and Photochemical reactions	29/09/2013	Patkar-Verde College, Goregaon (W), Mumbai	UGC sponsored
2013-14	Dr. Bapu R. Thorat	Science	Chemistry	SET-NET UGC sponsored lecture series	Organic Chemistry	25/08/2013	Patkar-Verde College, Goregaon (W), Mumbai	UGC sponsored
2013-14	Dr. Bapu R. Thorat	Science	Chemistry	SET-NET UGC sponsored lecture series	How to solve NET question paper?	17/08/2013	Patkar-Verde College, Goregaon (W), Mumbai	UGC sponsored
2011-12	Dr. Bapu R. Thorat	Science	Chemistry	SET-NET UGC sponsored lecture series	How to chose correct alternative in NET exam?	22/01/2012	Patkar-Verde College, Goregaon (W), Mumbai	UGC sponsored
2011-12	Dr. Bapu R. Thorat	Science	Chemistry	Study of thermal and photochemical reactions	Research in Organic chemistry in colleges and Industries	16/02/2012	R. B. N. B. College, Shrirampur, Ahmednagar (M.S.)	National
2011-12	Dr. Bapu R. Thorat	Science	Chemistry	How to solve the question in SET/NET exam?	Faculty Improvement Programme	23/02/2012	R. B. N. B. College, Shrirampur, Ahmednagar (M.S.)	UGC sponsored
2011-12	Dr. Bapu R. Thorat	Science	Chemistry	SET-NET UGC sponsored lecture series	Spectroscopy UGC workshop	07/01/2012	Patkar-Verde College, Goregaon (W), Mumbai	UGC sponsored
2011-12	Dr. Bapu R. Thorat	Science	Chemistry	M.Sc. I (CH 150) study	--	03/10/2011 08/10/2011	Satral College, Satral, Ahmednagar (M.S.)	BOS, University of Pune
2010-11	Dr. Bapu R. Thorat	Science	Chemistry	Spectroscopic study to solve organic chemistry proplems	Recent development of analysis developing suffer pharmaceutical drugs	31/12/2010 – 01/01/2011	Arts, Science and commerce college, Satral	National
2010-11	Dr. Bapu R. Thorat	Science	Chemistry	SET-NET Workshop	Pericyclic reactions	02/12/2011	Institute of Science, Fort, Mumbai	UGC sponsored
2010-11	Dr. Bapu R. Thorat	Science	Chemistry	M.Sc. I (CH 250) study	--	26/03/2011, 12/02/2011	Satral College, Satral, Ahmednagar (M.S.)	BOS, University of Pune

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2010-11	Dr. Bapu R. Thorat	Science	Chemistry	SET-NET UGC sponsored lecture series	SET/NET study program for minorities	09/01/2011	Patkar-Verde College, Goregaon (W), Mumbai	UGC sponsored
2019-20	Dr. Bapu R. Thorat	Science	Chemistry	--	International Journal of Chemical Science	--	Editor	--
2020-21	Dr. Bapu R. Thorat	Science	Chemistry	--	Emerging Methodologies in Pharma, Environmental and Life Sciences	18-19, June, 2020	Advisory Committee member	--
2021-22	Dr. Bapu R. Thorat	Science	Chemistry	--	Journal of Pharmaceutical Research International	--	Reviewer	--

**13. Participation in Co-Curriculum and Extra-Curriculum activities:**

Year	Name of Teacher	Faculty	Department	Name of Committee or Activity	Worked As	Duration
2021-22	Dr. Bapu R. Thorat	Science	Chemistry	IQAC	Member	From 2021-22
2021-22	Dr. Bapu R. Thorat	Science	Chemistry	College examination committee	Senior supervisor and IT coordinator	From 2021-22
2021-22	Dr. Bapu R. Thorat	Science	Chemistry	DPDC	Member	From 2021-22
2021-22	Dr. Bapu R. Thorat	Science	Chemistry	RUSA	Member	From 2021-22
2021-22	Dr. Bapu R. Thorat	Science	Chemistry	DPDC	Member	From 2021-22
2021-22	Dr. Bapu R. Thorat	Science	Chemistry	CSR-Committee	Co-ordinator	From 2021-22

(Name of the Teacher)