

Government of Maharashtra
Government College of Arts and Science, Aurangabad

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: Shirampur 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 |
| | 2021-22 | Science | Dr. Bapu R. Thorat | Chemistry | Short Term Course in Academic Leadership & Resources Management | 07/03/2022 to 12/03/2022 | UGC-HRDC, Jawaharlal Nehru University, New Dehli |

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|----------------------------------|---------|---------|--------------------|-----------|---|--------------------------|---|
| 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 |
|------|-------------------------------|---------|------------|--|--|
| | | | | | |
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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-Formyl 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) complex of 2-[[E)-(2-hydroxyphenyl) | Dr. Babu R. Thorat | Chemistry | Asian J. Research Chem | 2011, 4(12), 1887-1891 | 0974-4169 for print and 0974-4150 online | -- | -- |

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|---------|---|--------------------|-----------|--|---------------------------------|--|----|----|
| | methylidene} amino} benzoic acid | | | | | | | |
| Science | Synthesis and Characteristics of Hydrazones, Pyrazoles and Pyrazolones from 8-amino-6-chloro coumarine | Dr. Bapu 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. Bapu 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. Bapu 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. Bapu 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-h chromen-2-one | Dr. Bapu 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. Bapu 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. Bapu 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. Bapu 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 derivatives of 2-Acetylbenzofuran | Dr. Bapu R. Thorat | Chemistry | International Journal of Pharmaceutical Research and Development (IJPRD) | 2012, Vol.4, 281-284 | 0974 - 9446 | -- | -- |
| Science | Synthesis and fluorescence properties of schiff bases of 2-chloro-3-formlyquinoline | Dr. Bapu R. Thorat | Chemistry | Research J. Pharm and Tech | March 2012, 5(3) | 0974 - 3618; 0974 - 340X | -- | -- |

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|---------|---|--------------------|-----------|---|--------------------------------|--|----|----|
| 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-hydroxy-benzilidene) 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) | -- | -- |
| 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. Babu R. Thorat | Chemistry | Heterocyclic Letter | 2013, Vol. 3: (3), 331-340 | 2230 - 9632 (Online); 2231 - 3087 (Print) | -- | -- |
| Science | SYNTHESIS AND COMPUTATIONAL STUDY OF 7-METHOXY-2-[4-METHOXYPHENYL]-1-BENZOFURAN-5-CAR | Dr. Babu R. Thorat | Chemistry | Heterocyclic Letter | 2013, Vol. 3: (4), 461-479 | 2230 - 9632 (Online); 2231 - 3087 (Print) | -- | -- |

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| | RBOXALDEHYDE AND SYNTHESIS OF ITS SCHIFF BASES | | | | | | | |
| Science | COST EFFECTIVE ONE POT SYNTHESIS OF 6-CHLORO-5-(2-CHLOROETHYL) OXINDOLE | Dr. Babu 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-CARBOXY ALDEHYDE AND ANILINES AND HYDRAZIDE | Dr. Babu 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-CARBOXYALDEHYDE BY REDUCTIVE AMINATION | Dr. Babu 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. Babu R. Thorat | Chemistry | Heterocyclic Letter | 2014, 4 (4), 525-535 | 2230 - 9632 (Online); 2231 - 3087 (Print) | -- | -- |
| 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- | Dr. Babu R. Thorat | Chemistry | Heterocyclic Letters | 2015, Vol. 5: (2), 251-259 | 2230 - 9632 (Online); 2231 - 3087 (Print) | -- | -- |

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| | 3-YL)METHYLIDENE]-1-BENZO FURAN-2-CARBOHYDRAZIDE AND ITS METAL COMPLEXES | | | | | | | |
| 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-carb aldehyde | 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-BENZOFU RAN-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); 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): 1438–144 | 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-TRIMETHO XYPHENYL)-1-BENZOFURAN-5-CARBALDEHYDE | Dr. Babu R. Thorat | Chemistry | World Journal of Pharmaceutical Research | 2015, Vol. 4, Issue 10, 1650-1674 | 2277 – 7105 | -- | -- |

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| 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 | -- | -- |
| Science | Synthesis, SAR Study, Molecular Docking, HPLC Method Development and Anti-TB study of Novel 3-Chloro-N-[[7-methoxy-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-Carbohydrazide | Dr. Babu R. Thorat | Chemistry | Asian Journal of Organic & Medicinal Chemistry | 2017 , DOI:10.14233/ajomc.2016.AJOMC-P21 | 2456-8937 | -- | -- |
| Science | Transition Metal Type Complexes: Synthesis, | Dr. Babu R. Thorat | Chemistry | Asian J. Research Chem | 2017 , DOI - 10.5958/0974-4150.2016.00064.X | 0974-4169 for print and | -- | -- |

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| | Characterization and Antitubercular Studies | | | | | 0974-4150 online | | |
| Science | Zinc complexes of hydrazone derivatives bearing 3,4-dihydroquinolin-2(1H)-one nucleus as new anti-tubercular agents | Dr. Bapu 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. Bapu R. Thorat | Chemistry | J. of Physical and Chemical Sciences | 2018, 6(2), 2-10. DOI: 10.5281/zenodo.1205 726 | 2348 – 327X | -- | -- |
| Science | Synthesis and anti-tubercular study of some transition metal complexes of hydrazone derivatives derived from benzofuran-2-carbohydrazide | Dr. Bapu R. Thorat | Chemistry | Der Pharma Chemica | 2017, 9(3):45-53 | 0975 – 413X | -- | -- |
| Science | Review on <i>Euphorbia nerifolia</i> Plant | Dr. Bapu 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. Bapu R. Thorat | Chemistry | Research Journal of Pharmacognocny and Phytochemistry | 2018; 10(1): 109-119. DOI: 10.5958/0975-4385.2 018.00017.1 | (ONLINE): 0975-4385; (PRINT) : 0975-2331 | -- | -- |
| Science | A review on Phytochemistry and pharmacology of <i>Begonia malabarica</i> Lam | Dr. Bapu 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. Bapu 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. Bapu R. Thorat | Chemistry | J. of Physical and Chemical Sciences | 2018, V6I3-04. DOI: 10.5281/zenodo.1303 032 | 2348 – 327X | -- | -- |
| Science | Review on Medicinally important Weed - <i>Cyperus rotundus</i> L., | Dr. Bapu R. Thorat | Chemistry | Research Journal of Science and Technology | 2018, 10(4), DOI:10.5958/2349-2 988.2018.00042.6 | (ONLINE): 2349-2988; (PRINT): 0975-4393 | -- | -- |
| Science | Synthesis and Photophysical Properties of 2,2'-[Iminobis(2,1-ethanediyiminomethylene)]diphenol and Its Zinc Complexes | Dr. Bapu 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 | Dr. Bapu R. Thorat | Chemistry | Current Computer-Aided Drug Design | 2019, 15 DOI: 10.2174/15734099 | 1573-4099 | -- | -- |

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| | N-bromoamido-2-aminobenzothiazoles | | | | 15666190902143648 | | | |
| Science | Synthesis, SAR, Molecular Docking and Anti-Microbial Study of substituted 2-aminobenzothiazoles derivatives | Dr. Bapu R. Thorat | Chemistry | Current Computer-Aided Drug Design | 2019, 16 DOI: 10.2174/15734099 15666191210125647 | 1573-4099 | -- | -- |
| Science | Synthesis and anti-mycobacterium study of halo-substituted 2-aryloxyacetohydrazones | Dr. Bapu R. Thorat | Chemistry | Current Computer-Aided Drug Design | 2019, 15 DOI: 10.2174/15734099 15666191018120611 | 1573-4099 | -- | -- |
| Science | Synthesis, In-silico and In-vitro Analysis of Hydrazones as Potential Antituberculosis Agents | Dr. Bapu R. Thorat | Chemistry | Current Computer-Aided Drug Design | 2019, 16 DOI: 10.2174/1573409916 666200302120942 | 1573-4099 | -- | -- |
| Science | Green Synthesis of Substituted Dihydropyrimidin-2(1H)-one by Using Zinc Chloride /Acetic Acid Catalytic System | Dr. Bapu R. Thorat | Chemistry | Current Chinese Chemistry | 2020, 1 DOI: 10.2174/2665997201 999200512110147 | 2666-0016 Benthum Science | -- | -- |
| Science | The Rise of New Coronavirus Infection (COVID-19): A Recent Update and Potential Therapeutic Candidates | Dr. Bapu 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. Bapu 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. Bapu R. Thorat | Chemistry | Infect Disord Drug Targets | 2020 doi: 10.2174/18715265 20666200511005546 | Bentham Science Publishers 1871-5265 | -- | -- |
| Science | Synthesis and Screening of Biologically active Schiff bases of Benzothiazoles and its Zinc and Lanthanum metal complexes | Dr. Bapu R. Thorat | Chemistry | Oriental Journal of Chemistry | 2021, 37(1), 187-193 | 0970-020X | -- | -- |
| Science | Synthesis, In-Silico Potential Enzymatic Target Predictions, Pharmacokinetics, Toxicity, | Dr. Bapu R. Thorat | Chemistry | Current Enzyme Inhibition | 2021, 17 | Bentham Science Publishers | -- | -- |

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| | Anti-Microbial and Anti-Inflammatory Studies of Bis-(2-methylindolyl) Methane Derivatives | | | | | 1573-4080 | | |
| Science | Experimental and Computational insights on Bis-indolylmethane Derivatives as potent antimicrobial agents inhibiting 2,2-dialkylglycine decarboxylase | Dr. Bapu R. Thorat | Chemistry | Current Enzyme Inhibition | 2021 DOI:10.2174/1573408017666210914105731 | Bentham Science Publishers 1573-4080 | -- | -- |
| Science | Mini Review of the importance of hydrazides and their derivatives: synthesis and biological activities, | Dr. Bapu R. Thorat | Chemistry | Eng. Proceedings (under process) | 2021, 11, https://doi.org/10.3390/ASEC2021-11157 | MDPI Publishers | -- | -- |
| Science | Greener Synthesis, <i>In-silico</i> and theoretical analysis of hydrazones as potential antituberculosis agents | Dr. Bapu R. Thorat | Chemistry | MDPI journals, Proceedings | 2021, 68 doi.org/10.3390/ecso-c-25-11655 | MDPI Publishers | -- | -- |
| 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. Bapu R. Thorat | Chemistry | Structural Chemistry | 2022, https://doi.org/10.1007/s11224-022-01879-2 | 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. Bapu R. Thorat | Chemistry | Current Enzyme Inhibition | Accepted | Bentham Science Publishers | -- | -- |
| Science | Synthesis and Antimycobacterial Study of Novel Benzofuran Derivatives | Dr. Bapu 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. Bapu 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. Bapu R. Thorat | Chemistry | Current Computer-Aided Drug Design | Under review | Bentham Science Publishers | -- | -- |

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| Science | L-Proline: A Versatile Organo-Catalyst in Organic Chemistry | Dr. Bapu 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. Bapu 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 |
|------|---------|------------------------------|------------------------------------|--------------------------------------|------------------------|----------------------------|---|-------------------------|
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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 |
|------|---------|------------------------------|------------------------------------|--------------------------------------|------------------------|----------------------------|---|-------------------------|
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E. Received awards/Prices, recognition, fellowships at State, National, International level from Government, recognized bodies.

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| 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 |
|---------------|---------|------------|---|-----|-------------|--|-----------------------------|-------------------|
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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 |
| | 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 |

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|---------|--------------------|---------|-----------|---|--------------------------------|--------------------------------|---|---|
| | Dr. Bapu R. Thorat | Science | Chemistry | Handbook of Chemistry Practicals | Reference Book First Author | ISBN: 978-3-659-89 584-5 | 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: 978-3-659-93 402-5 | 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: 978-3-659-96 941-5 | I. Y. College, Mumbai | LAP LAMBERT Academic Publishing, Germany |
| | Dr. Bapu R. Thorat | Science | Chemistry | General Chemistry Part - I | Text Book | ISBN: 978-620-2-02 644-2 | I. Y. College, Mumbai | LAP LAMBERT Academic Publishing, Germany |
| | Dr. Bapu R. Thorat | Science | Chemistry | General Chemistry | Text Book | ISBN: 978-613-6-58 969-5 | I. Y. College, Mumbai | LAP LAMBERT Academic Publishing, Germany |
| | Dr. Bapu R. Thorat | Science | Chemistry | Multi-Component Organic Reactions – Roll of ZnCl ₂ and CaCl ₂ | Reference book | ISBN: 978-613-9-95 848-1 | I. Y. College, Mumbai | LAP LAMBERT Academic Publishing, Germany |
| | Dr. Bapu R. Thorat | Science | Chemistry | Handbook of Experimental Physical Chemistry | Reference Book | ISBN-978-61 3-8-59230-3 | 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-978-61 3-8-84047-3 | 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: 978-620-0-29 569-9 | 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: 978-620-4-71 531-5 | 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.**

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| 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-di hydroypyrimidin-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 |
| 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 |

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|---------|--------------------|---------|-----------|---|--|----------------------------------|---|--------------------|---|
| 2011-12 | Dr. Bapu R. Thorat | Science | Chemistry | Fluorescence study of zn (ii), cu (ii) and la (iii) complexes 3 - {(e)-{(4-iodophenyl) imino } methyl} quinolin -2-ol. | Proceeding of National Conference on "Advanced Materials in Industries | Advanced Materials in Industries | 10 th & 11 th Feb. 2012 | 978-81-9204 31-1-1 | Govt. of Maharashtra Ismail Yusuf College, Jogeshwari (E), Mumbai – 400060. |
| 2011-12 | Dr. Bapu R. Thorat | Science | Chemistry | Synthesis of novel 3-chloro-n-{(7-methoxy-2(4-methoxyphenyl)-1-benzofuran-5-y1}methyl} aniline and its hplc method development. | Proceeding of National Conference on "Advanced Materials in Industries | Advanced Materials in Industries | 10 th & 11 th Feb. 2012 | 978-81-9204 31-1-1 | Govt. of Maharashtra Ismail Yusuf College, Jogeshwari (E), Mumbai – 400060. |
| 2011-12 | Dr. Bapu R. Thorat | Science | Chemistry | Synthesis of novel 4-{(e)-hydrazinylidene methyl}-2-methoxy-6-Nitrophenol derivatives. | Proceeding of National Conference on "Advanced Materials in Industries | Advanced Materials in Industries | 10 th & 11 th Feb. 2012 | 978-81-9204 31-1-1 | 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 th & 11 th Feb. 2012 | 978-81-9204 31-1-1 | 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 th & 11 th Feb. 2012 | 978-81-9204 31-1-1 | 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 th & 11 th Feb. 2012 | 978-81-9204 31-1-1 | Govt. of Maharashtra Ismail Yusuf College, Jogeshwari (E), Mumbai – 400060. |
| 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 th & 11 th Feb. 2012 | 978-81-9204 31-1-1 | Govt. of Maharashtra Ismail Yusuf College, Jogeshwari (E), Mumbai – 400060. |

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|---------|--------------------|---------|-----------|--|--|----------------------------------|---|--------------------|---|
| 2011-12 | Dr. Bapu R. Thorat | Science | Chemistry | Synthesis of N-(1-Benzofuran-2-ylmethyl)-Chloroaniline. | Proceeding of National Conference on "Advanced Materials in Industries | Advanced Materials in Industries | 10 th & 11 th Feb. 2012 | 978-81-9204 31-1-1 | 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 th & 11 th Feb. 2012 | 978-81-9204 31-1-1 | 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 th & 11 th Feb. 2012 | 978-81-9204 31-1-1 | Govt. of Maharashtra Ismail Yusuf College, Jogeshwari (E), Mumbai – 400060. |
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i. **Patents:**

| Year | Name of Teacher | Faculty | Department | Title of the patent | Date of filing patent & application number | Date 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]ETHYL]-1,2-DIMETHOXYBENZENE HYDROCHLORIDE | -- | 07.03.2016 | 201621007810 | Indian |

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 |

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| 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 | -- |
| 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 | University | 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 | College | 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 | -- |

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| 2010-11 | Dr. Babu 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. Babu 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. Babu R. Thorat | Science | Chemistry | International | Offline | Drug Discovery for Infectious Diseases and Cancer (DDIDC) | ICT, Matunga, Mumbai | 16-17 Jan. 2013 | -- |
| 2012-13 | Dr. Babu 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. Babu R. Thorat | Science | Chemistry | National | Offline | Workshop on Green Chemistry | Elphinstone College, Mumbai | 21 Jan. 2015 | -- |
| 2015-16 | Dr. Babu 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 | -- |
| 2015-16 | Dr. Babu 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. Babu 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. Babu 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. Babu R. Thorat | Science | Chemistry | College Level | Online | High Performance Thin Layer Chromatography Instrumentation and Applications | Anchrom Enterprises (I) Pvt. Ltd., Mumbai | 08, May 2020 | -- |

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| From 2016-1 7 | Dr. Bapu R. Thorat | Science | Chemistry | UG | PPT and demonstration | <ol style="list-style-type: none"> 1. http://www.authorstream.com/Presentation/bapu456207-2919067-chemical-kinetics/ 2. http://www.authorstream.com/Presentation/bapu456207-2919068-complexometric-titration/ 3. http://www.authorstream.com/Presentation/bapu456207-2919072-electrolytic-conductance/ 4. http://www.authorstream.com/Presentation/bapu456207-2919075-photochemistry/ 5. http://www.authorstream.com/Presentation/bapu456207-2919076-physical-chemistry/ 6. http://www.authorstream.com/Presentation/bapu456207-2919081-titrimetric-acid-base-titration/ 7. http://www.authorstream.com/Presentation/bapu456207-2919086-atom/ 8. http://www.authorstream.com/Presentation/bapu456207-2919089-stereochemistry-reactionmechanism/ 9. http://www.authorstream.com/Presentation/bapu456207-2919361-sc-sem/ 10. https://www.scribd.com/document/333162469/Polymer-Chemistry 11. https://www.scribd.com/document/333162261/Photo-Chemistry 12. https://www.scribd.com/presentation/333159386/Liquid-State 13. https://www.scribd.com/document/333159942/Electrolytic-Conductance 14. https://www.scribd.com/document/333160209/Nuclear-Chemistry 15. https://www.scribd.com/document/333160243/Performance-Characteristic 16. https://www.scribd.com/document/333160292/Precipitation-Titration 17. https://www.scribd.com/document/333160446/SY-Second-Term-Phase-Rule 18. https://www.scribd.com/document/333161236/T-Y-Physical-Spectroscopy 19. https://www.scribd.com/document/333161591/Electrochemistry | PPT |
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| | | | | | | <p>20. https://www.scribd.com/document/333161613/Mechanism-of-Organic-Reactions</p> <p>21. https://www.scribd.com/document/333161784/S-Y-Organic</p> <p>22. www.slideshare.net/baputhorat/alcohol-chemistry</p> <p>23. www.slideshare.net/baputhorat/alkyl-halide-reactions</p> <p>24. www.slideshare.net/baputhorat/epoxide</p> <p>25. www.slideshare.net/baputhorat/organomagnesium-and-lithium</p> <p>26. www.slideshare.net/baputhorat/sy-carboxylic-acid</p> <p>27. www.slideshare.net/baputhorat/thermodynamics-1-108620015</p> <p>28. www.slideshare.net/baputhorat/sy-second-term-phase-rule</p> <p>29. www.slideshare.net/baputhorat/photochemistry-108620321</p> <p>30. www.slideshare.net/baputhorat/mo-theory-115744359</p> <p>31. www.slideshare.net/baputhorat/valance-bond-theory</p> <p>32. https://www.slideshare.net/baputhorat/first-and-second-law-thermodynamics-sy-p-8</p> | |
| | Dr. Bapu R. Thorat | Science | Chemistry | PG | PPT and demonatration | <p>1. https://www.scribd.com/document/333160360/Spectroscopy</p> <p>2. https://www.scribd.com/document/333161026/Organometallic-Compounds</p> <p>3. https://www.scribd.com/document/333161116/Reagent-and-Catalysis</p> <p>4. https://www.scribd.com/document/333161165/Stereochemistry-MSc</p> <p>5. https://www.scribd.com/document/333162652/Oxidation-Reduction</p> <p>6. https://www.scribd.com/document/333162805/Planning-of-Organic-Synthesis-01</p> | PPT |

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| | | | | | | <p>7. https://www.scribd.com/document/333162861/Prof-B-R-thorat-1H-NMR-Spectroscopy-Copy</p> <p>8. https://www.scribd.com/document/333162903/Spectral-Interpretation</p> <p>9. https://www.scribd.com/document/333162945/Stereochemistry-MSc</p> <p>10. https://www.scribd.com/document/333163352/NET-SET-Photochem</p> <p>11. https://www.scribd.com/document/333163414/Problems-on-Named-Reactions</p> <p>12. https://www.scribd.com/document/333163575/SET-NET-Spectroscopy-Numericals</p> <p>13. https://www.scribd.com/document/333163647/SET-NET-Pericyclic-Reactions</p> <p>14. https://www.scribd.com/document/333164316/Synthetic-Reagents</p> <p>15. www.slideshare.net/baputhorat/pericyclic-reactions-115746204</p> <p>16. https://www.scribd.com/presentation/393995824/PPT-on-Oxymercuration-and-Demercuration</p> <p>17. https://cdn.slidesharecdn.com/ss_thumbnail/s/powerandpolitics-191016115601-thumbnail-3.jpg?36407</p> <p>18. https://www.slideshare.net/baputhorat/organic-light-emitting-diodes</p> <p>19. https://www.scribd.com/document/485879896/M-sc-Separation-of-Tertiary-Mixture</p> | |
| | Dr. Bapu R. Thorat | Science | Chemistry | NAAC and other performance | Google documents | <p>1. http://docdro.id/TdJ46hn (Teacher Appraisal report for NAAC)</p> <p>2. http://docdro.id/JIQq1Om (NAAC Departmental profile)</p> <p>3. https://www.scribd.com/document/335967665/Departmental-Information-for-Academic-Audit</p> <p>4. https://www.scribd.com/document/335967734/Self-Profile-for-NAAC</p> <p>5. https://www.scribd.com/document/337825996/PPT-of-Department</p> | Documents |

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| | | | | | | 6. https://www.youtube.com/watch?v=roPAzk5h2W0&amp=&feature=youtube_gdata 7. https://www.youtube.com/watch?v=Tm8yhK9ILB8&amp=&feature=youtube_gdata | |
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12. Information of visiting faculty, resource person, chief guest, chairperson, etc.

| Year | Name of Teacher | Faculty | Department | Title of Conference/Seminar etc. | Title of lecture/Academic Session | Date of the Event | Organized by | Whether International/National / State |
|---------|--------------------|---------|------------|--|--|-------------------------------|--|--|
| 2018-19 | Dr. Babu R. Thorat | Science | Chemistry | Pericyclic and Photochemical reactions | Pericyclic and Photochemical reactions | 14-15 th Sept 2018 | R. B. N. B. College, Shrirampur, Ahmednagar (M.S.) | College level |
| 2017-18 | Dr. Babu R. Thorat | Science | Chemistry | Advance spectroscopic methods and its applications in Pharma. Industry and organic synthesis | Spectroscopic Techniques | 27 th Dec 2017 | R. B. N. B. College, Shrirampur, Ahmednagar (M.S.) | National Seminar |
| 2016-17 | Dr. Babu R. Thorat | Science | Chemistry | A Gateway to Qualify SET/NET exam | Gateway to NET/SET Exams in Chemical Sciences | 19 th Jan 2017 | M. J. S. Mahavidyalaya, Shrigonda, Ahmednagar (M.S.) 413 701 | State Level Workshop |
| 2015-16 | Dr. Babu 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. Babu 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. Babu 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. Babu 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. Babu 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. Babu 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. Babu 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. Babu 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 |

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| 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 problems | 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 |
| 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)