

		Name: Dr. Bhatu Shivaji Desale Email: milind7nagare@gmail.com Google Scholar ID : Research gate ID : Orcid ID :			
<b>Designation</b>		Associate Professor			
<b>Name of the department</b>		Chemistry			
<b>Qualification</b>		M.Sc, B.Ed, Ph.D. ( Physical Chemistry )			
Year	Research Paper International/ National Journal	Book Publish/ Chapter	Patent Publish/ IPR	Resource Person	Conferenc es/Seminar s/ Workshop organized / attended
2005	02	-	-	-	32
2006	04	-	-	-	
2007	02	-	-	-	
2008	01	-	-	-	
2010	01	-	-	-	
2014	03	-	-	-	
2015	01	02	-	-	
2016	01	-	-	-	
2018	01	01	-	-	
2020	02	04	-	-	
2021	03	02	-	-	
2022	03	01	-	-	
2023	-	-	-	-	
Orientation / Refresher / Short Term course / Faculty Development Program me (FDP):		Numbers: 05			
<b>Administrative Experience.</b>					
<b>Representation on Academic / Administrative bodies / Member of organizational bodies.</b> <ol style="list-style-type: none"> <li>1) Member of Local Management Committee. 2012-2017 ( M.G.V's Arts, Science &amp; Commerce College Manmad )</li> <li>2) Trainer, Soft skill development programme, Organized by SPPU</li> <li>3) Academic &amp; Research Co-ordinator, 2011-2013 BCUD, SPPU</li> <li>4) Vice principal of Manmad college 2008/09 to 2012/13</li> <li>5) Member of College Development Committee. 2018-2023 and 2023-28.</li> <li>6) College Examination Officer (CEO) Manmad college 2013-14 to 2021-22</li> <li>7) Science Faculty in charge &amp; Academic Supervisor Manmad College 2019-21</li> </ol>					

**Teaching Experience: 30 years in institute.**

**Research Project** carried out :

Sr.No	Title of the project	Name of the funding agency & funding	Duration	Remarks
1	Physico-chemical characteristics of Dam water at different season.	UGC, W.R.Office University of pune.	2004/06 2 Years	Completed No.F.47. 185/2003 dated.17/02/2004
2	Mixing properties of binary & ternary liquid mixtures of PA with Alkanols at diff temp	BCUD. University of pune.	2006/08 2 Years	Completed Ref.no. BCUD/57 dated.24/01/2007
3.	Thermodynamic & transport properties of binary liquid mixtures of chlorobenzene & bromobenzene with alkanols	UGC, W.R.Office University of pune.	2011/13 2 Years	Completed File No.47. 2050/ dated.22/02/2012

**A research paper published / presented**

1. Physico-chemical characteristics of water from waghdardi dam (Dist.Nashik) At different seasons. Bioinfolet Vol. 2 (3), 221-222, 2005.
- 2) Excess molar volumes and deviations in viscosity of binary mixtures of Propyl acetate with Methanol, Ethanol, Propan-1-ol at ( 298.15, 303.15, 308.15 and 313.15 ) K. Oriental Journal of Chemistry. Volume 21( 3 ), 559-564 ( 2005 )
- 3) Seasonal variation in physico-chemical characteristics of sediments from waghdardi dam. (Dist.Nashik). Bioinfolet Vol. 3 (1), 73, 2006.
- 4) Study of densities and viscosities of binary mixtures of Propyl acetate with Butan- 1-ol, Pentan-1-ol and Hexan-1-ol at (298.15, 303.15, 308.15 and 313.15 )K. Material Science Research India. Volume 03 (1a), 63-68 (2006)
- 5) Excess molar volumes and deviations in viscosity of binary mixtures of Propyl acetate with Butan-1-ol, Pentan-1-ol. Research Journal of Chemistry and Environment. Vol.10 (4) 47-52, Dec.( 2006 )
- 6) Volume and transport properties of binary liquid mixtures of Propyl acetate with Methanol, Ethanol and Propan-1-ol at 298.15 and 303.15 K. Oriental Journal of Chemistry. Volume 22 ( 3 ), 617-620 ( 2006 )
- 7) Volume and transport properties of binary liquid mixtures of Propyl acetate with Butan-1-ol, Pentan-1-ol and Hexan-1-ol at 308.15 and 313.15 K. Research Journal of Chemistry and Environment. Vol.11 (4) 37-42, Dec.2007.
- 8) Study of densities and viscosities of ternary liquid mixtures of Propyl acetate with Methanol and Propan-1-ol at different temperatures. Indian Journal of Chemical Sciences. Vol.5 (5), 2027-2033, 2007.
- 9) Thermodynamic properties of binary liquid mixtures of Propyl acetate with Pentan-1-ol at different temperature. Journal of Ultra Chemistry, Vol.4 (1), 127-132, 2008.
- 10) Thermodynamic and transport properties of binary liquid mixtures of Propyl acetate with normal alkanols at different temperature. Asian Journal of Chemistry, Vol.22 (7), 5192-5196, 2010.
- 11) Excess molar volume and deviations in viscosity of binary mixtures of chlorobenzene with hexan-1-ol at different temperature. Journal : 'Information and Research Trends.' Volume 2( 1 ), 19-24 ( Jan. 2014 )
- 12) Study of Enthalpy, Entropy and Free energy of activation of binary system. Journal : "Information and Research Trends." Volume 2( 1 ), 24-27 ( Jan. 2014 )

- 13) "Experimental Study of Intermolecular Interactions of Bromobenzene with Hexan-1-ol." Indian journal of research studies in pure & applied science. Volume 2(3), 02-06 May/June(2014)
- 14) "Study of molecular interactions generated in binary system of bromobenzene with hexan-1-ol." International Journal of Pharmaceutical Research & Development Volume 6, Issue 12, 30-33 (Jan. 2015)
- 15) Excess molar enthalpy of binary liquid mixtures containing propyl acetate+ 1-alkanols. Journal : 'International Journal of basic and applied chemical sciences. Volume 6(3), 01-04 (July-sep. 2016) ISSN: 2277-2073 online
- 16) Natural environment, sustainable agriculture and rural development Journal : 'Research Journey Volume 6(3) 01-04 (Feb 2018)
- 17) Design, fabrication, antitubercular, antibacterial, antifungal and antioxidant study of silver doped ZnO and CuO nano candidates: Current Research in Green and Sustainable Chemistry ELSEVIER 2021 ISSN: 2666-0865 online Volume 4(3)
- 18) Synthesis, antibacterial and computational studies of Halo Chalcone hybrids from 1-(2,3-Dihydrobenzo[b][1,4]dioxin-6-yl)ethan-1-one. Journal of the Indian Chemical Society ISSN: 0019-4522 online Volume 98. ELSEVIER 2021
- 19) Efficient Synthesis, Spectroscopic and Quantum Chemical Study of 2,3-Dihydrobenzofuran Labelled Two Novel Arylidene Indanones: A Comparative Theoretical Exploration Material Science Research India 2020 ISSN: 0973-3469 Vol 17 (2)
- 20) Thermodynamic properties and excess properties of binary liquid mixtures of propyl acetate with butan-1-ol at different temperature". Journal of Scientific Research of The Banaras Hindu University
- 21) Synthesis and Computational Insights on Molecular Structure, Frontier Molecular Orbital, Molecular electrostatic surface potential of (E)-3-(2,3-dihydrobenzofuran-5-yl)-1-(2-hydroxyphenyl)prop-2-en-1-one Journal of Scientific Research of The Banaras Hindu University ISSN :0447-9483 Vol. 65 (8) 2021
- 22) Physico-chemical characteristics of water from waghdardi dam, manmad (dist. nashik) at different Pollution Research ISSN 0257-8050 Vol 41 (1) 2022
- 23) Photocatalytic applications of doped Fe<sub>3</sub>O<sub>4</sub> nanoparticles for degradation of methyl orange and methylene blue. Asian Journal of Organic & Medicinal Chemistry ISSN 2193-5815, Vol 7 (2) 2022
- 24) Synthesis, antibacterial, antifungal and computational study of (E)-4-(3-(2,3-dihydrobenzo[b][1,4]dioxin-6-yl)-3-oxoprop-1-en-1-yl) benzonitrile, Result in Chemistry' ELSEVIER 2022 ISSN 2211-7156 Vol 4 (1)

### **Books published / chapter in a book:**

- 1) " Text book for T.Y.B.Sc, As per Revised syllabus from June 2015.  
CH. 331 Physical Chemistry III rd Semester NIRALI PUBLICATION,PUNE  
ISBN : 978-93-51645-79-5
- 2) Text book for T.Y.B.Sc, As per Revised syllabus from June 2015.  
CH. 341 Physical Chemistry IVth Semester NIRALI PUBLICATION,PUNE  
ISBN : 978-93-5164-916-8
- 3) Text book for S.Y.B.Sc, As per Revised syllabus from June 2020.  
CH.301 Physical and Analytical Chemistry IIIrd Semester SUCCESS  
PUBLICATION, PUNE ISBN : 978-81-946728-4-5
- 4) Text book for S.Y.B.Sc, As per Revised syllabus from June 2020.  
CH.401 Physical and Analytical Chemistry IVth Semester SUCCESS  
PUBLICATION, PUNE ISBN : 978-93-86951-55-7
- 5) Text practical book for S.Y.B.Sc, As per Revised syllabus from June 2020.  
CH.303 IIIrd Semester SUCCESS PUBLICATION, PUNE  
ISBN : 978-93-87020-95-5

- 6) Text practical book for S.Y.B.Sc, As per Revised syllabus from June 2020.  
CH.403 IVth Semester SUCCESS PUBLICATION, PUNE  
ISBN : 978-93-86951-53-3
- 7) Text book for T.Y.B.Sc, As per Revised syllabus (CBCS Pattern )from June 2021.  
CH. 502 Physical Chemistry VIth Semester NIRALI PUBLICATION,PUNE  
ISBN : 978-93-5164-916-8
- 8) Book entitled “ Enhancement in the quality of Higher Education”  
chapter no.21, Enhancement in Quality Education page no. 155-160  
ISBN : 978-93-90288-25-0

### Reference Book

Sr. No.	Title of the Book	Author Co-Auth	Name of the Pu	Month, Yea	ISBN No.
1	Easy Concept in Che	Single author	Walnut Publication	Aug 2021	978-939152286-5
2	Basic Concept in Electrochemistry”	Single author	Walnut Publication	May 2022	978-935574270-4
3	<b>Chemistry concept through MCQ Approach</b>	Co-author	Walnut Publication	July 2022	978-935574183-7

### Conferences/Seminars/ Workshop organized / attended

32 papers presented in seminars /conferences.

### Recognised Post Graduate Teacher by University of Pune.

\* **Recognised Ph.D Guide by Research and Post graduate teacher by Paper of**  
University of Pune.

Ref no. BOD / Sci & Tech/15/ 143 dated 20/7/2021, for the period 24/6/2021 to 23/6/2029.

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