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	Designation	Professor, Department of Chemical Engineering					
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	Experience	Teaching	20 Years	Industry	--	Research:	5 Years
Area of Interest	Cavitation based hybrid processes, waste water treatment, process intensification						
Publications	International Journal (s):	15	National Journals (s) :	04			
	International Conference (s):	01	National Conference:	01			
Research Publications Details (Last five years)	International Journal:						
	1. S. Raut-Jadhav , M. Badave, S.H. Sonawane, D.R. Saini, A.B. Pandit, Treatment of the pesticide industry effluent using hydrodynamic cavitation and its combination with process intensifying additives (H ₂ O ₂ and ozone), Chem. Eng. J. 295 (July 2016) 326-335. (Impact factor- 4.612, indexed in Scopus and Web of Science)						
	2. S. Raut-Jadhav , S.H. Sonawane, D.R. Saini, A.B. Pandit, Effect of process intensifying parameters on the degradation of commercial carbamate pesticide (Methomyl) in the aqueous solutions by using hydrodynamic cavitation based hybrid processes, Ultrason. Sonochem. 28 (2016) 283-293. (Impact factor- 4.5, indexed in Scopus and Web of Science)						
	3. S. Raut-Jadhav , S.H. Sonawane, D.R. Saini, A.B. Pandit, Intensification of degradation of methomyl (carbamate group pesticide) by using the combination of ultrasonic cavitation and process intensifying additives, Ultrason. Sonochem. 31 (2016) 135-142. (Impact factor- 4.5, indexed in Scopus and Web of Science)						
	4. S. Raut-Jadhav , V.K. Saharan, D. Pinjari, S.H. Sonawane, D.R. Saini, A.B. Pandit, Synergistic effect of combination of AOP's (hydrodynamic cavitation and H ₂ O ₂) on the degradation of neonicotinoid class of insecticide, J. Hazard. Mate. 261 (2013) 139– 147. (Impact factor- 5.5, indexed in Scopus and Web of Science)						
	5. S. Raut-Jadhav , V.K. Saharan, D. Pinjari, S.H. Sonawane D.R. Saini, A.B. Pandit, Intensification of degradation of imidacloprid in aqueous solutions by combination of hydrodynamic cavitation with various advanced oxidation processes (AOPs), J. Environ. Chem. Engi. 1 (2013) 850-857 (indexed in Scopus) .						
	6. Suraksha Rasal, Priyesh V. More, Chaitanya Hiragond, Sunita Jadhav and Pawan K. Khanna, Rapid homogenization method for synthesis of core/shell ZnO/CdS nanoparticles and their photocatalytic evaluation, Adv. Mater. Lett. 7(5) (2016) 390-397. ISSN:0976397X, 09763961 (Scopus indexed-SNIP:1.81, SJR:0.57, H-index:15)						
	7. Asmita P. Patil and S. M. Jadhav , Simulation Analysis Of Fully Thermally Coupled Distillation Column, Int. J. Chem. Sci. 14(3) (June 2016)1-12 ISSN 0972-768X (Scopus indexed SJR:0.15, H-index:06)						
	8. P.V. Ganorkar, S.M. Jadhav , S.G. Gaikwad, Recative distillation of Nicotinic acid with tri-iso-octylamine(TIOA) in 1-Decanol, International journal of advanced technology in engineering and science 2 (2014) 377-383. (Impact factor- 1.02)						
	9. S.V. Nikam, S. M. Jadhav , Photocatalytic degradation of metamitron (herbicide) in aqueous solution, International journal of advanced technology in engineering and						

	<p>science 2 (2014) 424-432. (Impact factor-1.02)</p> <p>10. Y.D. Thakare, S. M. Jadhav, Degradation of brilliant green dye using cavitation based hybrid techniques, International Journal of Advanced Engineering Technology IV (2013) 31-36. (Impact factor-1.121)</p> <p>11. B. Salunkhe, S. J. Raut, Removal of Heavy Metal Ni (II) And Cr (VI) from aqueous solution by Scolecite natural zeolite, Int. J. Chem. Sci. 10 (2012) 1133-1148. (Impact Factor-1.15)</p> <p>12. S. Patil, S. J. Raut, Synthesis and characterization of ZnO Nanoparticles and 50% ZnO – bentonite nanocomposite, Int. J. Chem. Sci. 10 (2012) 1124-1132. (Impact Factor-1.15)</p> <p>13. N.S. Topare, S.J. Raut, S.J. Attar, 3D Model Design and Simulation of Photocatalytic Reactor for Degradation of Dyes Using Solidworks Software, Int. J. Chem. Sci. 10 (2012) 808-816. (Impact Factor-1.15)</p> <p>14. N.S. Topare, S.J. Raut, Extraction of oil from Algae by solvent extraction and oil expeller method, Int. J. Chem. Sci. 9 (2011) 1746-1750. (Impact Factor-1.15)</p> <p>15. N.S. Topare, S.J. Raut, Biodiesel production from Jatropha Curcas Oil, Int. J. Chem. Sci. 9 (2011) 1607-1612. (Impact Factor-1.15)</p> <p>National Journal:</p> <p>1. N.S. Topare, S.J. Raut, Novel Design of Laboratory Scale Photo-catalytic Reactor for Degradation of Dyes, Chemical Product Finder 31 (2012) 35-38.</p> <p>2. N.S. Topare, S.J. Raut, V.C. Renge, S.V. Khedkar, A Study of Process Variables for the Photo-catalytic Degradation of Rhodamine-B Using TiO₂ & Nb₂O₅, Journal of Indian Chemical Society 90 (2013) 2193-2198. (Impact factor-0.435)</p> <p>3. N.S. Topare, S.J. Raut, Novel Design of Laboratory Scale Photo-catalytic Reactor for Degradation of Dyes, Chemical Engineering World 47 (2012) 59-62.</p>
Research Projects	<p>Project completed:</p> <p>Title of the project : The study of degradation of organic pollutants using cavitation based hybrid techniques.</p> <p>Funding agency : TEQIP- II</p> <p>Duration : 2013- 2014</p> <p>Amount : 2.40 Lacs</p> <p>Status : Completed</p> <p>Project ongoing:</p> <p>Title of the project : Photocatalytic and Sonophotocatalytic Degradation of Organic Pollutants under Visible Light</p> <p>Funding agency : TEQIP- II</p> <p>Duration : 2016-2018</p> <p>Amount : 2.985 Lacs</p> <p>Status : Ongoing</p>
Books / Book chapters Published	Niraj S. Topare, Sunita Raut, Photocatalytic Reactor Design & Its Application, Lambert Academic Publishing House, Germany, 2012
Professional Memberships	<p>1. Life member IICHe</p> <p>2. Life member ISTE</p>
Workshop/ Seminar/ Conference attended	<p>1. UGC Networking Resource Centre-Summer Research Fellowship, Institute of Chemical Technology, Mumbai (April 2012- June 2012)</p> <p>2. TEQIP-II sponsored workshop on “Mantras for personal effectiveness”, (August 2013).</p>

<p>Achievements</p>	<ol style="list-style-type: none"> 3. Best Researcher Award by Bharati Vidyapeeth Deemed University on 26th April 2016 (University foundation day) 4. Award of UGC Networking Resource Centre-Summer Research Fellowship, Institute of Chemical Technology, Mumbai (24 April 2012- 23 June 2012) 5. Certificate of appreciation for valuable contribution in the capacity of member of Core Committee of NANOCON-012 and NANOCON-014
<p>Extra Activities</p>	<ol style="list-style-type: none"> 1. In-charge, Research and Development Cell. 2. Core committee member of International Conferences, NANOCON-010, NANOCON-012, NANOCON 014 and NANOCON-016 organized by BVDUCOE, Pune. 3. Co-convener, International conference- NANOCON-018 organized by BVDUCOE, Pune. 4. Convener, TEQIP-II sponsored workshop on “Research Methodology”, (October 2015) 5. Convener, TEQIP-II sponsored workshop on “Advanced statistical methods and software tools for the analysis of data”, (March 2016) 6. Convener, TEQIP-II sponsored workshop on “Preparation of research proposals to funding agencies”, (December 2016) 7. Convener, TEQIP-II sponsored workshop on “Patent drafting and filing”, (March 2017) 8. Co-Chairman for session- “Synthesis, characterization and applications” in NANOCON-014, (October 2014) 9. Member, Board of Studies, Chemical Engineering, BVUCOE. 10. Member of Faculty of Engineering and Technology, BVU. 11. Convener for the workshop “Applications of MATLAB”