

Somaiya Vidyavihar University

Name: Pushendra Rai		E-mail: pushpendrarai@somaiya.edu	
Contact No: 9224840300			
Department/Section: Science & Humanities			
College: K J Somaiya College of Engineering			
DOJ Somaiya: 21 July 2009	Career Experience: 17 Yrs	Industry Experience: _2_ Yrs	Teaching Experience: 15 Yrs
Present Academic Designation: Associate Professor		Present Administrative Designation: Faculty	

Area of research/specialization and Courses Delivered
Research domain/interests/areas 1. Water treatment 2. Advance oxidation process 3. Nano technology 4. Adsorption and surface science 5. Polymers Courses Delivered 1. Engineering Chemistry 2. Instrumental methods of analysis 3. Chemistry for Engineers

Recognition as a teacher by any University	UG: Yes	PG: Yes	Ph.D : Yes
Details of Recognitions 1. SVU/DRO/PhDGL/22-23/059 2. KJSCE/372/2012			

Education					
Examination	Name of the Degree	University/Board	Institute/College	Year	CPI/SPI/ %Marks
Ph.D	Ph.D Science	Mumbai University	Institute of Chemical Technology	2008	-
PG	M.Sc Analytical Chemistry	Mumbai University	Department of Chemistry, Mumbai University	2001	66.4%
UG	B.Sc Chemistry	Mumbai University	R. J College	1999	70.00
Diploma					
NET/SET/Other					

Notable Experience Details					
Sr. No	Name of the organization	Designation	Date of Joining	Date of Leaving	Experience (Years)
1.	IIT Bombay	Post Doctorate Fellow	2008	2009	1 year

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Research Accomplishments and Projects		
No of students pursuing Ph.D as on date: Nil		No of students completed Ph.D as on date: Nil
No of students completed PG thesis / Project work as on date: Nil		No of students / groups completed UG projects as on date: Nil
Publications Total:	Number of Peer review Journal papers:	Number of Conference papers:
<p>Details of Publications:</p> <p>International Journals</p> <ol style="list-style-type: none"> 1. Removal of Disperse Dyes from Aqueous Solution Using Sawdust and BDTDA-Sawdust, <i>Journal of Dispersion Science & Technology</i>, Volume 28, 2007 <p>National Journals</p> <ol style="list-style-type: none"> 1. Nil <p>Conferences</p> <ol style="list-style-type: none"> 1. The influence of polymer on optical and thermal properties of nematic liquid crystals, <i>J. Phys.: Conf. Ser.</i> 2070 012055 2. Blended Learning Approach using Virtual Laboratory Applications in Engineering Chemistry, <i>2019 IEEE Tenth International Conference on Technology for Education (T4E)</i> 3. Optical and Electrical Characterization of Polymer Dispersed Nematic Liquid Crystals, <i>Key Engineering Materials</i> Volume 934, Pages 3 – 132022 4. Active Learning and CO Attainment through Collaborative Learning in Engineering Chemistry, <i>2019 IEEE Tenth International Conference on Technology for Education (T4E)</i> <p>Books/Book Chapters</p> <ol style="list-style-type: none"> 1. Optical and Electrical Characterization of Polymer Dispersed Nematic Liquid Crystals, <i>Key Engineering Materials (Volume 934)</i> 		
<p>Patents/Copy Rights</p> <ol style="list-style-type: none"> 1. Nil 		
No of Research / consultancy / projects completed: Rs: <u>01</u>	No of Research / consultancy / projects on-going: Rs: <u>01</u>	No of Research / consultancy / projects on applied as on date: Rs: <u>Nil</u>
<p>Details of Research / consultancy / projects:</p> <p>Completed</p> <ol style="list-style-type: none"> 1. Use of magnetically separable Nano particles for degradation of azo dyes in waste water effluents under Mumbai University minor research project 2. "Bio-catalyzed abatement of organic chlorophenols in effluent wastewater. <p>On-going</p> <ol style="list-style-type: none"> 1. Removal of micro plastics from waste water. <p>Applied</p> <ol style="list-style-type: none"> 1. 		
<p>IPR/ Copyrights</p> <ol style="list-style-type: none"> 1. Certificate for Design Patent UK, for Organic LED for photo electric sensor 		

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FDPs/Seminars/Workshops/Training Programs Attended/ Organized/ Delivered	
Attended	
<ol style="list-style-type: none"> 1. National level Faculty Development program on Excellence in Higher Education: perspective of NEP organized by Bhartiya Vidya Bhavan Sardar Patel college of Engineering in collaboration with SAE 2. Research Funding, Projects & IPR organized by R & D Cell & IQAC, K C College of Engineering 3. Strengthening Academic & Research Pursuit in the 21st Century, National Faculty Development Program jointly organized by School of Basic Sciences and Research, Sharda University 4. Nuclear Radiations for Societal Applications organized by Applied Science Department at NITTTR Chandigarh 5. Presented research paper entitled “Effect of quantum dots dispersion on the structural, optical, and thermal properties of liquid crystal system” in First International Conference on Modern Materials for Engineering and Research (ICMMER 2022) 6. Presented research paper entitled “Morphological and thermal behaviour of monomer dispersed liquid crystal in Fourth international conference on inventive materials science and applications (ICIMA2021) 7. Attended webinar series on “ Scientific writing: Publication ethics, effective peer review and increasing research impact” joint organized by Taylor & Francis and National Knowledge resource consortium 8. Attended FDP program on “ Recent Concreteria for the structure” Joint organized by Ultra Tech Cement and Rizvi College of Engineering 	
Organized	
<ol style="list-style-type: none"> 1. CHALLENGES, INNOVATIONS AND ADAPTATIONS OF COVID-19: SCIENCE & SOCIETY PERSPECTIVES" (CIACSSP), jointly organized by K J Somaiya College of Engineering and S K Somaiya College, constituent colleges of Somaiya Vidyavihar University 	
Delivered	
<ol style="list-style-type: none"> 1. Nil 	

Notable Key Scholastic Achievements	
1.	Nil

Notable Positions and Responsibility	
1.	<ol style="list-style-type: none"> 1. Member of Board of Studies, Chemistry, Somaiya Vidyavihar University 2. Member of syllabus framing committee for Post Graduate diploma course in collaboration IPUA society

Signature of Faculty Member