

Somaiya Vidyavihar University

Name: Dr. Jitendra Satam			E-mail: jitendrasatam@somaiya.edu		
Contact No:					
Department/Section: Science & Humanities					
College: K J Somaiya College of Engineering					
DOJ Somaiya: 02/01/2013	Career Experience: 14 Yrs. 10 Months	Industry Experience: 4 Yrs	Teaching Experience: 10 Yrs 10 Months		
Present Academic Designation: Assistant Professor			Present Administrative Designation: Associate HOD		

Area of research/specialization and Courses Delivered
<p>Research domain/interests/areas</p> <ul style="list-style-type: none"> • Catalysis, polymers • Nanotechnology, Material Science • Nanotechnology in drug delivery, Nanotoxicology studies • Environment and Sustainability <p>Courses Delivered</p> <ul style="list-style-type: none"> • Applied Chemistry - I • Applied Chemistry - II • Engineering Chemistry • Engineering Chemistry Laboratory

Recognition as a teacher by any University	UG: Yes	PG: Yes	Ph.D. : Yes
Details of Recognitions 1. Somaiya Vidyavihar University 2. University of Mumbai			

Education					
Examination	Name of the Degree	University/Board	Institute/College	Year	CPI/SPI/ %Marks
Ph.D	Ph.D Chemistry	University of Mumbai	Institute of Chemical Technology	2009	-
PG	M.Sc Inorganic Chemistry	University of Mumbai	K.J. Somaiya College of Science and Commerce	2002	63.7
UG	B.Sc Chemistry	University of Mumbai	K.J. Somaiya College of Science and Commerce	2000	66.5
Diploma	Diploma in Business Management	-	Welingkar Institute of Management studies	2007	69.4
NET/SET/Other	-	-	-	-	-

Notable Experience Details					
Sr. No	Name of the organization	Designation	Date of Joining	Date of Leaving	Experience (Years)
1.	United Phosphorus Ltd. Thane (R & D)	Senior Scientist	October 2008	November 2012	4 years
2.	K. J. Somaiya College of Engineering, Vidyavihar	Assistant Professor	January 2013	Till date	10 years

Somaiya Vidyavihar University

Research Accomplishments and Projects		
No of students pursuing Ph.D as on date: -		No of students completed Ph.D as on date: -
No of students completed PG thesis / Project work as on date: -		No of students / groups completed UG projects as on date: -
Publications Total: 12	Number of Peer review Journal papers: 12	Number of Conference papers presented: 9
Details of Publications:		
<u>International Journals</u>		
<ul style="list-style-type: none"> • Bharatkumar Sapkal, Prakash Labhane and Jitendra Satam. In water, Ultrasound promoted synthesis of tetraketones and 2-substituted-1-Hbenzimidazol catalyzed by BiOCl nanoparticles. Research on Chemical Intermediates, Accepted for publication, In Press. DOI:10.1007/s11164-017-2924-5. • K.D. Parghi, Jitendra R. Satam and Radha V. Jayaram. Silica supported heteropolyacid catalyzed dehydration of aldoximes to nitriles and alcohols to alkenes. Green Chemistry letters and Reviews 4(2), 143-149. • Jitendra R. Satam and Radha V. Jayaram. (NH₄)₃PW₁₂O₄₀ and reusable catalyst for the synthesis and deprotection of geminal diacetates. Synthetic Communications 2008, 4, (38): 595-602. • Jitendra R. Satam, Kalpesh D. Parghi and Radha V. Jayaram. 12-tungsto phosphoric acid supported on zirconia as an efficient and heterogeneous catalyst for the synthesis of bis(indolyl)methanes and tris(indolyl)methanes. Catalysis Communications, 2008, 9 (6): 1071-1078. • Jitendra R. Satam and Radha V. Jayaram. Selective procedure for the conversion of alcohols into alkyl iodides with SO₄²⁻/ZrO₂ and NaI at room temperature Catalysis Communications, 2008, 9 (6): 1033-1039. • Jitendra R. Satam, M.B. Gawande, S.S. Deshpande and Radha V. Jayaram. Liquid phase Friedel-Crafts benzylation of aromatics on a polymer-supported 12- tungstophosphoric acid catalyst. Catalysis Communications, 2008, 9 (9): 1937- 1940. • Jitendra R. Satam and Radha V. Jayaram. Acetylation of alcohols, phenols and amines using ammonium salt of 12-tungsto phosphoric acid: Environmentally benign method. Catalysis Communications 2008, 9 (14): 2365-2370. • Jitendra R. Satam, Manoj B. Gawande, Sameer S. Deshpande, and Radha V. Jayaram. SO₄²⁻/SnO₂: Efficient, chemoselective and reusable catalyst for the acylation of alcohols, phenols and amines. Synthetic Communications 2007, 17 (37): 3011-3020. • Manoj B. Gawande, Sameer S. Deshpande, Jitendra R. Satam and Radha V. Jayaram. A novel N-alkylation of amines by alkyl halides on mixed oxides at room temperature. Catalysis Communications 2007, 3 (8): 576-582. • Jitendra R. Satam and Radha V. Jayaram SO₄²⁻/SnO₂ as an efficient, chemoselective and reusable catalyst for the synthesis and deprotection of 1,1-diacetates. Catalysis Communications 2007, 9 (8): 1414-1420. 		
<u>Conference Proceedings</u>		
<ul style="list-style-type: none"> • Dr. Jitendra Satam, Dr. Pushpendra Rai, Dr. Bharati Choudhari, Dr. Druman Utekar, Blended Learning Approach using Virtual Laboratory Applications in Engineering Chemistry. Proceedings - IEEE 10th International Conference on Technology for Education, T4E 2019, Pages 282 - 283. Article number 8983766, 10th IEEE International Conference on Technology for Education, T4E 2019, Goa, 9 December 2019 - 11 December 2019. DOI 10.1109/T4E.2019.00045, ISBN: 978- 172814227-2 2. • Dr. Bharati Choudhari, Dr. Jitendra Satam, Dr. Pushpendra Rai, Dr. Druman Utekar, Active Learning and CO Attainment through Collaborative Learning in Engineering Chemistry. Proceedings - IEEE 10th International Conference on Technology for Education, T4E 2019, Pages 201 - 204. Article number 8983709, 10th IEEE International Conference on Technology for Education, T4E 2019, Goa, 9 December 2019 - 11 December 2019. DOI 10.1109/T4E.2019.00075, ISBN: 978- 172814227-2 		
<u>Conference Presented</u>		
<ul style="list-style-type: none"> • Presented a paper at the International Conference held in Paris, France (CCE 2018). 2nd international Conference on, 'Catalysis and chemical Engineering 2018'. Development of Magnetic Nano-catalysts for the Photo-degradation of Organo chlorine and Organo-phosphorus compounds, 19-21 February 2018. • Jitendra R. Satam. Modified combustion synthesis of Cr₂O₃/ZnO nano catalysts for the synthesis of medicinally important bis-indolyl methanes and tris-indolyl methanes. November 26 -28, 2015, 		

Somaiya Vidyavihar University

ICSMC-2015. University of Mumbai.

- Jitendra R. Satam and Radha V. Jayaram. 12-tungstophosphoric acid supported on polyaniline an efficient catalyst for Friedel-Craft's benzylolation of aromatics. January 23-25, 2007, "International conference on emerging trends in chemical Sciences". University of Mumbai, India.
- Jitendra R. Satam and Radha V. Jayaram. Catalytic activity studies of solid acids. February 23-24, 2007, "19th Research Scholar's meet-2007" Indian Chemical Society (Mumbai branch), Mumbai, India.
- Jitendra R. Satam and Radha V. Jayaram. April 16-18, 2007, "Catalysis for future fuels" 18th national Symposium and Indo-US Seminar on Catalysis. Indian Institute of Petroleum, Dehradun, India.
- Jitendra R. Satam and Radha V. Jayaram. Catalytic room temperature acylation of alcohols, phenols and amines on surface modified metal oxides. 29th November, 2007, "Third catalysis research scholar's meet-2007" Catalysis society of India (Mumbai chapter).
- Jitendra R. Satam and Radha V. Jayaram. Seminar on synthesis and characterization of the catalysts. 27 December 2007.

Patents/Copy Rights : -

No of Research projects completed: 4
Rs: 3,50,000

No of Research projects on-going:
Rs: One

Details of Research projects:

Completed:

Mumbai University Minor Research Grant (2016-17)

- Development of Magnetic Nano-catalysts for the Photo-degradation of Organo-chlorine and Organo-phosphorus Pesticides
 - Principal Investigator: Dr. Jitendra Satam
 - Co-Investigator: Dr. Atul Chaskar
- Development of Photo-curable Composition for MIP-SLA 3D-Printing Machine Using Digital Light Processing
 - Principal Investigator: Prof. N. S. Chandrashekhar
 - Co-Investigator: Dr. Jitendra Satam

Mumbai University Minor Research Grant (2018-19)

- Bio-catalyzed abatement of organic chlorophenols in effluent wastewater
 - Principal Investigator: Dr. Jitendra Satam
 - Co-Investigator: Dr. Pushpendra Rai

Ongoing:

SVU Seed Grant (2023-25):

"Micro-plastics removal/degradation from water bodies using graphene based magnetic nanocomposites under sunlight"

Patents / Copyrights:

Antenna Based Carbon Dioxide Detector, Indian Design Patent, Application Number. 386665-001 issued on 17th August 2023.

FDPs/Seminars/Workshops/Training Programs Attended/ Organized/ Delivered

Attended

1. Short term Courses / Workshop attended: 1. One week, Short Term Training Programme on "Innovative Teaching Tools & Methodologies for Engineering Faculty" organised by Vidyalkar Institute of Technology, Wadala-East., Mumbai, June 19-23, 2017.
2. One day, DAE-BRNS IANCAS workshop on Radiochemistry and Applications of Radio-isotopes organized by Department of chemistry. M.D. College of arts, Commerce and Science, Parel, Mumbai, 20th August 2016.
3. One week, QIP short term course on Green Concepts in Engineering and Chemistry organized by SV-NIT Surat, 12th December – 16th December 2016.
4. Two Week, Short Term Training Programme (STTP) on Technical Communication for STEM faculty Under the National Mission on Education through ICT (MHRD, Govt. of India) organized by KJSCE (Remote Centre), 08th October to 11th November 2015 (Online activity-One week equivalent) and 30th November to 05th December 2015 (Physical participation at Remote center-One week)

Somaiya Vidyavihar University

Online courses / FDP attended:

1. "NAAC: Systematic Data Organization and Presentation", organized by IQAC, Vidyalankar Institute of Technology, Mumbai. Date: 16th May, 2020.
2. 3-days online workshop on "Education 4.0-Season I" organized by IQAC, Atharva College of Engineering held on 28th - 30th April 2020.
3. 3-days online workshop on "Education 4.0-Season II" organized by IQAC, Atharva College of Engineering held on 28th - 30th May 2020.
4. One Week International Online Faculty Development Programme organized by Internal Quality Assurance Cell (IQAC) in association with Patlex Business Solutions on, "INNOVATION, IPR & ENTREPRENEURSHIP" from May 04, 2020 to May 10, 2020.
5. "Post-COVID or Co-COVID: Challenges and Opportunities" delivered by Dr. S. Swaminathan, Director, CeNTAB, SASTRA, Deemed University, Tamilnadu held on 10th June 2020.

Organized

1. Two Day Training Programme for, Newly Joined Faculty Members under IQAC, KJSCE 3rd - 4th January 2018
2. Two Day Training Programme LDP Curriculum for Engineering Institutes (PHASE-I) under IQAC, KJSCE 12th -13th January 2018
3. Two Day Training Programme LDP Curriculum for Engineering Institutes (PHASE-II) under IQAC, KJSCE 30th - 1st May 2018
4. Quality Week under IQAC, KJSCE 9th - 14th July 2018

Delivered

1. Invited talk at the International Conference on Molecular Spectroscopy (ICMS 2017) held at Mahatma Gandhi University, Kottayam, Kerala, India, 8th -10th December 2017. Development of Magnetic Nano-catalysts for the Photo-degradation of Organic Pollutants in water.

Notable Positions and Responsibility

1.	Reviewer for IUCEE JEET Journal
2.	Reviewer for The Journal, Bulletin of Korean Chemical Society
3.	Session Chair for The Conference Held at Rajiv Gandhi University, Kottayam, Kerala
4.	Received Travel Grant From UGC for Paper Presentation in CCE 2018 at Paris, France

Dr. Jitendra Satam

Date: 03 / 11 / 2023

Signature of Faculty Member