




UNIVERSITY OF KOTA, KOTA

Faculty Profile

Title	Dr.	First Name	Shweta	Last Name	Vyas	Photograph
Designation	Assistant Professor					
Address	Department of Pure & Applied Chemistry, University of Kota, Near Kabir Circle, MBS Marg, Swami Vivekanand Nagar, Kota-324005 Rajasthan, India					
Phone No.	+91-744-2471742 (Office), +91-9460427477 (Mobile)					
E-mail	shwetavyas@uok.ac.in , shweta.joshi77@gmail.com					
Educational Qualifications:						
Degree	Institution				Year	
Ph.D.	Jai Narayan Vyas University, Jodhpur-342001 (Rajasthan)				2003	
Title of Ph.D. Thesis: "Structure-Reactivity Correlation in some Solution Phase Redox Reactions of Organic Functions"						
M.Sc. (Chemistry)	Jai Narayan Vyas University, Jodhpur-342001 (Rajasthan)				2001	
NET	CSIR-UGC New Delhi				2002	
Career Profile:						
Teaching Experience : 11 Years PG Level-09 Years UG Level-04 Years <ul style="list-style-type: none">Working as Assistant Professor from 27th July 2012.Worked as Lecturer Chemistry, in Adrash Mahavidyalaya, K.N. Nagar IInd extension Jodhpur, affiliated to J.N.V.U. Jodhpur, from July 2008 to July 2012.Worked as Lecturer in Chemistry (Guest Faculty), in JaiNarayanVyas University, Jodhpur in session 2005-2006 & 2007-2008.Worked as Junior Research Fellow in Defence Laboratory Jodhpur (DRDO), Jodhpur (Raj.) from Nov. 2002 to Nov. 2004.						
Academic/ Administrative Responsibilities						
1. Convener University Hindi Cell 2. Co-Editor University Newsletter 3. Co-ordinator of Centre for Analytical Instrumentation Facility (CAIF) 4. Co-ordinator for Internal Examinations of Department session 2014-15, 2015-16, 2016-17 5. Member Anti Ragging Squad						

6. Teacher-In charge of English Lab for Department
7. Member of Various committee constituted by University.

Area of Research Interest/Specialization:

Organic Chemistry, Green Chemistry, Phase Transfer Catalysis, Kinetics & Mechanistic Studies, Water analysis & Purification techniques, Waste management

Research Guidance:

Allocated as Research Supervisor by University of Kota in December 2016.

Subject/Papers Taught:

1. At PG Level

- Co-Ordination Chemistry
- Natural products
- Environmental Chemistry
- Green Chemistry
- Chromatography
- Separation Techniques

2. At UG Level

- In Organic Chemistry
- Organic Chemistry
- Physical Chemistry

Research Projects:

S. No.	Title of Project	Amount (in INR)	Funding Agency	Duration
1.	A comparative study of Kinetics & Mechanism of Some Redox Reactions.	Six Lakhs	UGC, New Delhi	02 years (2014-16)

Publication Profile:

(a) Research Papers published in Refereed/Peer Reviews Journals:

1. Kinetics and mechanism of the oxidation of some unsaturated acids by Quinolinium bromochromate. **Shweta Vyas** and Pradeep K. Sharma J. Indian Chem. Soc., 2003, vol.80, 820-823.
2. Kinetics and mechanism of the oxidation of some diols by Quinolinium bromochromate. **Shweta Vyas** and Pradeep K. Sharma, Indian J. Chem., 2004, vol.43A, 1219-1223.
3. Kinetics and mechanism of the oxidation of some thioacids by Quinolinium bromochromate **Shweta Vyas** and Pradeep K. Sharma. Int. J. Chem. Sci., 2004 2(1), 13-20.
4. Oxidation of some vicinal and non-vicinal diols by imidazolium fluorochromate: A kinetic and mechanistic approach. Deepika Baghmar, P. Purohit, **S.Vyas** and Vinita Sharma. J. Ind. Council Chem., 2010, 27(2) 134-139.

5. Correlation analysis of reactivity in the oxidation of some vicinal and non-vicinal diols by tetraethylammonium chlorochromate (TEACC) S. Pohani, P. Pancharia, P. Purohit, Shweta Vyas and Pradeep K. Sharma. <i>Int. J. Chem. Sci.</i> , 2010, 8(3) 1365–1378
6. Kinetics and mechanism of the oxidation of primary aliphatic alcohols by tetraethyl-ammonium chlorochromate (TEACC) K. Vadera , M. Patel, Shweta Vyas , P. Purohit, P. Pancharia and Pradeep K. Sharma. <i>Int. J. Chem. Sci.</i> , 2011, 9(3) 1094–1106.
7. Kinetics and mechanism of the oxidation of unsaturated acids by imidazolium fluorochromate (IFC) D. Baghmar Priyanka Purohit, Shweta Vyas and Vinita Sharma. <i>Int. J. Current Chem.</i> , 2011, 2(1), 9–18.
8. Kinetics and mechanism of the oxidation of oxidation of secondary alcohols by Imidazolium Fluorochromate, D. Sharma, P. Panchariya, Shweta Vyas , L. Kotai and Pradeep K. Sharma <i>Int. J. Chem.</i> , 2012, 1(1), 29 – 37.
9. Kinetic study of oxidation of lower oxyacids of phosphorous acids by Quinolinium chlorobromate(QCC) J. Khatri, D. Sharma, Shweta Vyas , O. P. and Vinita Sharma <i>Int. J. Chem.</i> , 2012, 1(3) 353-360
10. Kinetics and Mechanism of the Oxidative Regeneration of Carbonyl Compounds from Oximes by Imidazolium fluorochromate (IFC) Amit Daiya, Shweta Vyas , Anita Kothari, P. Mishra, S. Agarwal and Vinita Sharma <i>J. Chem. Biol. Phys. Sc.</i> , 2012, 2(3) 1271–1280.
11. Kinetics and mechanism of the oxidation of oxalic and formic acid by tetraethyl-ammonium chlorochromate (TEACC). S. Pohani, P. Purohit, S.Vyas and Pradeep K. Sharma. <i>J. Indian Chem. Soc.</i> , 2012, 89(3) 363–369.
12. Kinetics and mechanism of the oxidation of aliphatic aldehydes quinolinium chlorochromate (QCC), S. Panwar, S. Pohani, P. Swami, Shweta Vyas and Pradeep K. Sharma, <i>Eur. Chem. Bull.</i> , 2013, 2(10) 904 – 909.
13. Correlation analysis of reactivity in the oxidation of substituted benzyl alcohols by Tetrakis (Pyridine) Silver Dichromate S. Panwar, U.Soni, Shweta Vyas , L. Kotai, IE Sazo & Pradeep K. Sharma <i>Int. J. Chem.</i> , 2014; 3(3) , 288 – 299.
14. Green Chemicals from Renewable Sources: A mini Review, Shweta Vyas, <i>IJIRSET</i> , 2015,4(3),1365-1369.
15. Correlation analysis of reactivity in the Oxidation of substituted benzaldehydes by Bis[dipyridinesilver(I)] dichromate, U. Soni, D. Yajurvedi, S. Vyas , O. Prakash and Pradeep K. Sharma, <i>Eur. Chem. Bull.</i> , 2015,4(9),442-449.

16. Structure-reactivity correlation in oxidation of substituted benzyl alcohols by Tetraamminecopper(II)bis(permanganate) M. Sharma, U.Songara, P. Swami, P. Purohit, Shweta Vyas and Pradeep K Sharma, Int. J. Chem. 2016, Vol 5 (1), 74 – 82.
17. Kinetics and Mechanism of the Oxidation of DL-Methionine by Morpholinium Fluorochromate, A. Rao, S. Panwar, Om Prakash, Shweta Vyas , and Pradeep K. Sharma, JCBPS; Section A; 2016, Vol. 6, No. 3; 876-884.
Conferences/Symposia/Workshops:
(a) Participation as Paper/Poster Presenter:
1. National Seminar on Analytical Electro chemistry NSAE -2010 Held during feb.08-10, at Department of Chemistry, Jainarayan Vyas University, Jodhpur (Raj.)
2. First Rajasthan Science congress, on New Frontiers of Science & Technology and Innovation for Development in Rajasthan 11-13 may 2013 at Jaipur (Raj.)
3. National seminar on female feticide and infanticide in India- socio-legal issues. 4-5 oct.2013 held at university of Kota, Kota (Raj.).
4. National seminar on pure and Applied Chemical Sciences NSPACS-2014 held on 10-11 January 2014, at JNVU, Jodhpur (Raj.)
5. International Conference- 5th Asia-Oceania Conference on Green & Sustainable Chemistry, 15-17 January 2015, held at New Delhi.
6. National Conference on Modern Trend in Chemical Sciences held on 30-31 January, 2016 at Mohanlal Sukhadia University, Udaipur (Raj.) .
7. National seminar on Recent Trends in Chemical Research-2016, held on 5 th -7 th February 2016, at JNVU, Jodhpur (Raj.)
8. International Conference on Frontiers at the Chemistry-Allied Sciences Interfaces, held on 25 th -26 th April 2016 at University of Rajasthan, Jaipur (Raj.).
9. National Hindi Science Conference Held on 16 th -17 th December 2016 organized by Vigyan Bharti at University of Rajasthan, Jaipur (Raj.).
10. Workshop on Question Repository, 8-10 February 2014 at VMOU, Kota (Raj.)
(b) Participation Only:
1. DST workshop on water purification possibilities and prospects held on 4th and 5th dec.2010 at JNVU jodhpur (raj.)
2. National Conference on Functional material NCFM-2011 held on 11th & 12th Feb.2011 at Lachoo Memorial College of Science & Technology, Jodhpur (Raj.)
3. Indo-Swedish Symposium on Strategic Knowledge on Climate Change On Oct., 9 th - 10 th Oct.2012 held at university of Kota, Kota (Raj.)
4. Workshop on IPR-Intellectual Property Rights held on November 20, 2013 at Department of Commerce & Management, University of Kota (Raj.)

5. Symposium on E-Resources on 16&17 December 2013organised by Department of Library and Information Science, University of Kota.
6. Workshop on “Latex- An efficient Documentation tool” organized by Department of Computer Science and Informatics on 17-18 March 2017, at University of Kota, Kota(Raj.)
Conferences/Symposia/Other activities Organized:
1. Member Organizing Committee, National academic workshop on organic synthesis and analytical techniques in chemistry held from 21-25 October 2013 at university of Kota, Kota(Raj.)
2. Member Organizing committee for Cultural Activities during Sports & Cultural week - 2016.
3. Organised Hindi cell Activities during Hindi-Diwas 2015, 2016 & Hindi week during September 2016.
Membership:
<ul style="list-style-type: none"> • Life membership of Indian Chemical Society, Kolkata, India. • Life membership of Rajasthan Science Congress.
Orientation/Refresher Courses Attended:
83 rd orientation course at JNV, University, Jodhpur during 21 st Jan. to 16 th Feb., 2013
Summer- School for Refresher Course at JNVU, Jodhpur from 8 th June 2014 to 28 th June 2014.
UGC-HRDC M. D. S.,University sponsored Short-Term Course on Separation techniques & Instrumental methods of Analysis, during 30 th Jan.-4 th Feb.2017 organized by university of Kota, Kota(Raj.)
Distinctions and Awards:
67 th Rank in Merit of Senior Secondary Exam. Board of secondary Examinations, Ajmer (Raj.)
JRF in Defence Laboratory, (DRDO), Ratanada, Jodhpur (Raj.).
Got Research Fellowship by JNVU, Jodhpur during Ph.D.
Silver medal by Adrash Mahavidhyalaya, K.N. Nagar II nd extension, Jodhpur for Best Faculty of the Year 2009.