




# UNIVERSITY OF KOTA KOTA

## Faculty Profile

<b>Title</b>	<b>Dr.</b>	<b>First Name</b>	<b>Sushil Kumar</b>	<b>Last Name</b>	<b>Sharma</b>	<b>Photograph</b>
<b>Designation</b>	Assistant Professor					
<b>Address</b>	Department of Pure & Applied Chemistry M.B.S Marg, Near Kabir Circle, University of Kota, Kota-324 005 Rajasthan, India					
<b>Phone No.</b>	+91-744-2471742 (Office), +919413561491 (Mobile)					
<b>E-mail</b>	sushil@uok.ac.in, skaharmaok@gmail.com					
<b>Educational Qualifications:</b>						
<b>Degree</b>	<b>Institution</b>					<b>Year</b>
<b>Ph.D.</b>	Department of Chemistry, University of Rajasthan, Jaipur					<b>2011</b>
<b>Title of Ph.D. Thesis:</b> Syntheses of Some Organic Compounds Using Eco-Friendly Electrochemical and Microbial Techniques						
<b>M.Sc. (Chemistry)</b>	Department of Chemistry, University of Rajasthan, Jaipur					<b>2004</b>
<b>Career Profile:</b>						
Teaching Experience: <b>10</b> Years -Assistant Professor, University of Kota, Kota from August 2012- Continued -Assistant Professor, Govt. Engineering College, Jhalawar from Sep.01, 2007 to August, 2012 - CSIR Junior Research Fellow from March 2006 to August 2007. -Lecturer, Agrawal P.G.College, Jaipur from July, 2005 to Feb., 2006						
<b>Job Responsibilities:</b>						
<b>At University level :</b> <ul style="list-style-type: none"><li>• Member-Placement Cell-2012-13,2013-14</li><li>• Member, various committees during UGC 12B visit at University of Kota, Kota</li><li>• Member, various committees of LAHAR 2013 and DHAROHAR 2014</li><li>• Member-Dean, Student Welfare's 2012-13,2013-14,2014-15,2015-16,2016-17</li><li>• Member -Counselling Cell-2014</li><li>• Member-Discipline Committee during Cultural Programme-2013,2014,2015.</li><li>• Member-Scrutinizer for revaluation work exam-2012,2013,2014,2015,2016.</li><li>• Member-Ballet paper printing paper committee, Students' Union election-2013 .</li><li>• Member-Poshak and Baize distribution committee, II Convocation-2013,III-Convocation-2016</li><li>• Member- Counting Team-Students' Union Election-2013,2014,2015</li><li>• Member-Prize distribution committee, Annual Function-2013</li><li>• Member-University Flying Squad Committee-2014</li><li>• Member-Ph.D course work-2012 (science) conducting committee.</li><li>• Member-Alumni Association Constitution Committee.</li><li>• Member-NAAC conducting Committee.</li><li>• Coordinator, PhD Course work programme-2017 held from 25 July to 31 August, 2017 at University of Kota, Kota.</li></ul>						

- Coordinator, PhD Course work programme-2016 held from 21 April to 20 May, 2016 at University of Kota, Kota.
- Coordinator, PhD Course work programme-2015 held from 09 March to 31 March, 2015 at University of Kota, Kota.
- Member, Organizing Committee of 69<sup>th</sup> Annual Conference of ISAS during 14-16 December, 2015 at University of Kota, Kota.
- Member, Admission for Professional Courses-2016-17.
- Member, Admission for Professional Courses-2017-18.

#### At Departmental level:

- Member-Departmental Purchase Committee.
- Practical Incharge in the session 2012-13
- Member-M.Sc. Industrial Chemistry Semester Syllabus design committee.
- Faculty-Incharge-Water Analysis and Planetary Ball Mill in the Centre for Analytical Instrumentation Facility (CAIF)
- Member-Verification of purchased items 2012-13 (Imprest, annual contract ,Instrument)
- Member-Department Inventory verification committee.
- Member-Time Table Preparation Committee Session 2013-14,2014-15,2015-16
- Member-Chemical stores maintenance committee 2013-14
- Admission In charge Session-2015-16

#### Area of Research Interest/Specialization:

Electro-organic Synthesis, Green Chemistry, Bio-Catalysis, Corrosion

#### Subject/Papers Taught:

- |                                 |                          |
|---------------------------------|--------------------------|
| • Organic Reaction Mechanism    | • Polymer                |
| • Chromatography                | • Organic Synthesis      |
| • Electro-analytical Techniques | • Disconnection Approach |

#### Research Guidance:

#### Supervisor of DST, Rajasthan funded students project

#### Research Projects: 01

S. No.	Title of Project	Amount (in INR)	Funding Agency	Duration
1.	Baker's Yeast Mediated Synthesis of Some Bioactive Chiral Alcohols	06 lakh	UGC, New Delhi	02 Years

#### Publication Profile:

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

1. "Eco-friendly synthesis of *p*-aminobenzyl alcohol using electrochemical techniques"; Shilpi Kaushik, Hemlat Agarwal, Sushil Kumar Sharma, P.S.Verma, I. K. Sharma *Int. J. chem. Sci.* 6(4), **2008**, 2207-2213.
2. "Electrochemical Reduction of *p*-Nitro benzoic acid at Glassy Carbon and Stainless Steel (SS-316) Electrode at Different pH; Sushil Kumar Sharma, Devkishan Chhimpa I.K.Sharma and P.S. Verma *Asian J. Chem.*, Vol. 21, No. 5, **2009**, 3976-3980.
3. "Voltammetric behaviour of *o*-nitro benzoic acid in aqueous-methanol medium" Sushil Kr.Sharma, Nidhi Jain, Hemlata Agarwal, I.K.Sharma and P.S.Verma *Int.J.Chem.Sci.* 7(2), **2009**, 1353-1360.
4. "Chemo Selective Reduction Of Aromatic Nitro Compounds to Aromatic Amines By Baker's

**Yeast in Basic Solution” Sushil Kumar Sharma, I. K. Sharma and P.S.Verma *Int. J. App. chemistry.*8(1), 2012, 1-4.**

**5. “Electrochemical reduction of *m*-Nitro benzoic acid at various electrode and pH”**

Sushil Kumar Sharma, I. K. Sharma and P.S.Verma, *Res. J. of Pharma.l,Bio and Chemical Sciences* **2013**, 4(1), 635-641.

**6. “Electrochemical Reduction of *p*-Nitrobenzamide at Stainless (SS-316) Electrode in Basic Media” Sushil Kumar Sharma, I. K. Sharma and P.S.Verma, *Res. J.of Chemical Sciences*, **2013**, 3(3), 1-4.**

**7. “Synthesis of 3-Hydroxy cyclohexanone by Electrochemical and Microbial techniques”**

Sushil Kumar Sharma,Geeta Wadhvani,P.S.Verma and I.K.Sharma, *Int. J. of ChemTech Res.*, **2014**, 6(2), 1462-1469.

**8. “Electrochemical Reduction of 2-Methylcyclohexane-1, 3-Dione at Stainless Steel (SS-316) Electrode in Basic Media” Sushil Kumar Sharma,Geeta Wadhvani,P.S.Verma and I.K.Sharma, *Int .J. of Innovative Res, in Sci, Engg. & Tech*,**2014**, 3(12),17837-17840.**

**9. “Baker’s Yeast:A green chemical method for the enantioselective reduction of carbonyl compounds” Sushil Kumar Sharma, *Indian Journal of Applied Research*,2016,1,9-10.**

**10. “Bio-transformation of Prochiral Ketones to pharmaceutically used Chiral Alcohols by Baker’s Yeast” Sushil Kumar Sharma, Ankit Sharma, *Int .J. of Innovative Res, in Sci, Engg. & Tech*,**2016**, 5(12),20660-20663.**

**(b)Book Edited:**

S. No.	Name of all Authors	Title of the book	Name of the Publisher	Year	ISBN
1.	Prof.P.S.Verma, Dr.Sushil Kr.Sharma	Synthetic Organic Chemistry	Vardhman Mahaveer Open University, Kota	2015	818496544-3
2.	Dr.Sushil Kr.Sharma Mr.Ankit Sharma	Natural Products, Heterocycles, Biogenesis and Spectroscopy	Vardhman Mahaveer Open University, Kota	2015	818496545-1
3.	Dr.Sushil Kr.Sharma Dr.M.P.Khinchi	Drug and Pharmaceuticals	Vardhman Mahaveer Open University, Kota	2015	818496546-X
4.	Dr.Sushil Kr.Sharma	Practical Chemistry-II	Vardhman Mahaveer Open University, Kota	2015	818496547-8

**(c)Books Chapters:**

S. No.	Title of the Chapter	Name of all Authors	Title of the book	Name of the Publisher	Year	ISBN
1.	Polymer	Avneesh Gaur, Renu Sharma, Satyal, Rajeev Mehta and Sushil Kumar Sharma	Engineering Chemistry-I A textbook for B. Tech I Semester by Vayu Education of India, New Delhi	Vayu Education, New Delhi	2010	978-93-80712-50-5
2.	Ecology	Kanupriya	Environmental	Vayu	2010	978-93-

		Sharma, Pra deep Yadav, Avneesh Gaur, Sushil Kumar Sharma and Harpeet Singh	Engineering and Disaster Management by Vayu Education of India, New Delhi	Education, New Delhi		80712-15-4
3.	Five and six membered heterocycles containing one hetro atom- Pyrrole, Furan, Thiophene, Pyridine, Indole, Quinoline and Isoquinoline.	Sushil Kr.Sharma	M.Sc. (Pre.) Organic Chemistry (CH-02) Vardhaman Mahaveer University Open University ,Kota	Vardhman Mahaveer Open University, Kota	2015	8184964 62-5
4.	<b>Reaction Intermediates - I:</b> Formation, Stability, Structure and reaction of carbonium ions, carbanions and free radicals	Sushil Kr.Sharma	M.Sc. (Final.) Organic Chemistry (CH-06) Vardhaman Mahaveer University Open University ,Kota	Vardhman Mahaveer Open University, Kota	2015	8184965 43-5
5.	<b>Reaction Intermediates -II:</b> Formation, Stability, Structure and reaction of carbenes , nitrenes and arynes	Sushil Kr.Sharma	M.Sc. (Final.) Organic Chemistry (CH-06) Vardhaman Mahaveer University Open University ,Kota	Vardhman Mahaveer Open University, Kota	2015	8184965 43-5
6.	<b>Analysis of electrocyclic reactions:</b>	Sushil Kr.Sharma	M.Sc. (Final.) Organic Chemistry (CH-06) Vardhaman Mahaveer University Open University ,Kota	Vardhman Mahaveer Open University, Kota	2015	8184965 43-5
7.	<b>Photochemistry of alkenes and dienes:</b>	Sushil Kr.Sharma	M.Sc. (Final.) Organic Chemistry (CH-06) Vardhaman	Vardhman Mahaveer Open University,	2015	8184965 43-5

			Mahaveer University Open University ,Kota	Kota		
8.	<b>Conformations of some acyclic molecules</b>	Sushil Kr.Sharma	M.Sc. (Final.) Organic Chemistry (CH-06) Vardhaman Mahaveer University Open University ,Kota	Vardhman Mahaveer Open University, Kota	2015	8184965 43-5
9.	<b>Oxidation of – OH group</b>	Sushil Kr.Sharma	M.Sc. (Final.) Organic Chemistry (CH-07) Vardhaman Mahaveer University Open University ,Kota	Vardhman Mahaveer Open University, Kota	2015	8184965 44-3
10.	<b>Reduction of Nitrogen containing groups</b>	Sushil Kr.Sharma	M.Sc. (Final.) Organic Chemistry (CH-07) Vardhaman Mahaveer University Open University ,Kota	Vardhman Mahaveer Open University, Kota	2015	8184965 44-3
11.	<b>Polycyclic Aromatic Compounds</b>	Sushil Kr.Sharma	M.Sc. (Final.) Organic Chemistry (CH-07) Vardhaman Mahaveer University Open University ,Kota	Vardhman Mahaveer Open University, Kota	2015	8184965 44-3
12.	<b>Protecting Group I</b>	Sushil Kr.Sharma	M.Sc. (Final.) Organic Chemistry (CH-07) Vardhaman Mahaveer University Open University ,Kota	Vardhman Mahaveer Open University, Kota	2015	8184965 44-3
13.	<b>Prostaglandins</b>	Sushil Kr.Sharma	M.Sc. (Final.) Organic Chemistry (CH-08) Vardhaman Mahaveer University Open University ,Kota	Vardhman Mahaveer Open University, Kota	2015	8184965 45-1
14.	<b>Small Ring Hetrocycles</b>	Sushil Kr.Sharma	M.Sc. (Final.) Organic Chemistry (CH-08) Vardhaman	Vardhman Mahaveer Open University,	2015	8184965 45-1

			Mahaveer University Open University ,Kota	Kota		
15.	<b>Enzymes</b>	Sushil Kr.Sharma	M.Sc. (Final.) Organic Chemistry (CH-08) Vardhaman Mahaveer University Open University ,Kota	Vardhman Mahaveer Open University, Kota	2015	8184965 45-1
16.	<b>Theory and Kinetics of Enzymes</b>	Sushil Kr.Sharma	M.Sc. (Final.) Organic Chemistry (CH-08) Vardhaman Mahaveer University Open University ,Kota	Vardhman Mahaveer Open University, Kota	2015	8184965 45-1
17.	<b>Electronic Transitions</b>	Sushil Kr.Sharma	M.Sc. (Final.) Organic Chemistry (CH-06) Vardhaman Mahaveer University Open University ,Kota	Vardhman Mahaveer Open University, Kota	2015	8184965 43-5

#### **Conferences/Symposia/Workshops:**

##### (a) Participation as Paper/Poster Presenter:

1. Eighth International Symposium on “**Advances in Electrochemical Science and Technology (ISAEST-08)**” conducted at National Institute of Oceanography, Goa from 28<sup>th</sup>-30<sup>th</sup> Nov. 2006. (Oral)
2. “**44<sup>th</sup>Annual Convention of Chemists 2007**” organized by Indian Chemical Society at MGIAS, Jaipur from 23-27 Dec., 2007. (Oral)
3. U.G.C. Sponsored National Seminar on “**Chemical Aspects of Environmental Challenges and Their Management (CAECM-07)**” at Agarwal P.G. College, Jaipur on 27<sup>th</sup>– 28<sup>th</sup> Feb. 2007. (Poster)
4. National Seminar on “**Integrated Water Management and Sustainable Water Pricing**” organized by Civil Engineering Department, Rajasthan Technical University, Kota on Feb. 8-9, 2008. (Oral)
5. National Symposium on “**Emerging Trends in Advanced Chemistry (ETAC-08)**” conducted at Centre for Advanced Studies (CAS), Department of Chemistry, University of Rajasthan, Jaipur from 8<sup>th</sup> – 10<sup>th</sup> Mar. 2008. (Poster)
6. Multidisciplinary International Conference on “**Emerging Issues and Global Economics Scenario**” organized by Aishwarya College, Udaipur on Aug. 21<sup>st</sup>-24<sup>th</sup>, 2009. (Oral)
7. National Seminar on “**Analytical Electrochemistry 2010 (NSAE)**” organized by Department of Chemistry, Jai Narayan Vyas University, Jodhpur on Feb., 8<sup>th</sup>-10<sup>th</sup> 2010. (Oral)
8. National Symposium on **New Frontiers In Chemical Sciences (NFCS-10)** conducted at Centre for Advanced Studies (CAS), Department of Chemistry, University of Rajasthan, Jaipur on Feb., 25<sup>th</sup>, 2010. (Poster)

9. All India Seminar On “**New Strategies For Reducing Carbon Foot Prints And Its Impact On Global Warming (CFIGW-2010)**” conducted by Rajasthan College Of Engineering For Women, Jaipur on 20<sup>th</sup>-21<sup>th</sup>, August 2010. (Poster)

10. UGC sponsored national workshop on “**Recent Advances in Spectroscopy through experimental and theoretical tools**” organized by Deptt. Of chemistry Govt. P. G. College Tonk. Dated 22-23 Dec., 2011. (Poster).

11. Indian Chemical Society sponsored National Conference **51<sup>st</sup> Convention of Chemist** organized by Department of Chemistry, Krukashetra University, Krukashetra, Haryana. Dated 09-12 Dec., 2014. (Poster).

12. Nation Conference on **Frontiers at the Chemistry-Allied Sciences Interface** organized by Center of Advanced Study, Department of Chemistry, University of Rajasthan, Jaipur dated 13-14 March, 2015. (Poster)

13. UGC-Sponsored National Conference on **Modern Trends in Chemical Sciences** organized by Department of Chemistry, Mohan Lal Sukhadia University, Udaipur dated 03-31 Jan., 2016. (Poster)

14. National Seminar on **Recent Trends in Chemical Research** organized by Department of Chemistry, Jai Narayan Vyas University, Jodhpur dated 05-07 Feb., 2016. (Poster)

15. Third Rashtriya Hindi Vigyan Sammalen Jointly organized by Vigyan Bharti Jaipur and University of Rajasthan, Jaipur & Board of Secondary Education, Ajmer

**(b) Participation Only:**

1. 2nd International Conference on “**Heterocyclic Chemistry**” conducted at Department of Chemistry, University of Rajasthan, Jaipur from 16<sup>th</sup> – 19<sup>th</sup> Dec. 2006. (attended)

2. Indo-Swedish Symposium on “Strategic Knowledge on Climate Change” organized by Department of Pure & Applied Chemistry, UOK, Kota and Center for Climate Science & Policy Research, Linkoping University, Sweden on 09-10-2012.

3. Socio-Legal Issues and Challenges of Female Foeticide and Infanticide in India organizes by Women Cell, University of Kota, Kota from 4 -10-2013 to 5-10-13.

4. Workshop on Intellectual Property Rights organized by Department of Commerce & Management, University of Kota, Kota on 20-11-2013.

5. Symposium on E-Resources organized by Department of Library and Information Science, University of Kota, Kota 16-12-2013 & 17-12-13.

6. Symposium on “Drug Abuse Prevention Awareness” jointly organized by National Service Scheme, University of Kota, Kota and Sponsored by National Institute of Social Defense on March 03, 2017.

7. Author Workshop jointly organized by Springer Nature and University of Kota, Kota on March 02, 2017

8. A Workshop on “Academic Ethics and Integrity” organized by Internal Quality Assurance Cell, University of Kota, Kota on July 27, 2017

**Conferences/Symposia/Other activities Organized:**

- ❖ Member, Organizing Committee of the UGC sponsored 5<sup>th</sup> National Academic Workshop on “Organic Reaction Mechanisms & Analytical Techniques used in Chemical Sciences” during

October 21-25, 2013 in the Department of Pure & Applied Chemistry, University of Kota, Kota.

- ❖ Member, Organizing Committee of the ICSSR sponsored National Seminar on “ Administrative Culture in India : Transparency and Accountability” during Feb.,20-21, 2015 in the Department of Social Science, University of Kota, Kota.
- ❖ Coordinator, Ph.D Course work programme-2017 held from 25,July to 31, August, 2017 at University of Kota, Kota.
- ❖ Coordinator, Ph.D Course work programme-2016 held from 21, April to 20, May, 2016 at University of Kota, Kota.
- ❖ Coordinator, Ph.D Course work programme-2015 held from 09 March to 31 March, 2015 at University of Kota, Kota.
- ❖ Member, Organizing Committee of 69<sup>th</sup> Annual Conference of ISAS during 14-16 December, 2015 at University of Kota, Kota.

#### **Invited Lecture Delivered:**

- Invited lecture delivered in the seminar on “Disaster risk reduction in development: From risk to resilience” on **Nov.23, 2013** at DCM SHRIRAM organized by PHD Chamber, Jaipur.
- Invited lecture delivered in the “Ph.D. Course work **2013**” on the topic “Impact Factor of Journals” at the University of Kota, Kota (Rajasthan).
- Resource Person in the workshop on “Question Repository for Chemistry.” On **Feb.,08-10<sup>th</sup>, 2014** organized by School of Science & Technology, Vardhman Mahaveer Open University, Kota, (Raj.)
- Invited lecture delivered in the “Ph.D. Course work **2015**” at the University of Kota, Kota (Rajasthan).
- Invited lecture delivered in the “Ph.D. Course work **2016**” at the University of Kota, Kota (Rajasthan).

#### **Orientation/Refresher Courses Attended:**

- General Orientation Course (GOC-87) Organized by Academic Staff College, University of Rajasthan, Jaipur from May,13 to June,8 2013.
- Refresher Course in Chemistry, Organized by the Department of Chemistry, Guru Jambheshwar University of Science and Technology, Hisar, Haryana from April ,24 to May 14,2014.
- A Short Term Training Programme on “Sustainable Environment Management” Organized by Department of Chemistry, Jaipur Engineering College, Jaipur from Feb., 21 to 25, 2009.
- A Quality Improvement Programme on “The Essentials of Nanophase and Nanostructured Materials” Organized by Department of Physics, IIT Roorkee from Feb.,21 to 25, 2011.
- A Short Term Training Programme on “Smart Nanoceramics & Nanoscience Research”



Organized by Department of Physics, IIT Roorkee from July,13 to 17, 2011.

- A Short Term Training Programme on “A Primer in Administration and Management for Scientists and Technologists Training Course” Organized by Centre for Disaster Management, NIAR, LBSNAA, Mussoorie from December, 3 to 7, 2012.
- 5<sup>th</sup> National Academic Workshop-2013 on “Organic Reaction Mechanisms and Analytical Techniques used in Chemical Sciences” Organized by the Department of Pure & Applied Chemistry, University of Kota, Kota, from October 21 to 25, 2013.
- School and Workshop on Electroanalytical Techniques (SWET-2013) organized by School of Chemical Science and Pharmacy, Central University of Rajasthan, from Nov.,25 to Dec.,1,2013.
- Workshop on Question Repository (Chemistry), Organized by Vardhaman Mahaveer Open University, Kota from February 08 to 10, 2014.
- A Short Term Training Programme on “Separation Techniques and Instrumental Methods of Analysis” Organized by Human Resource Development Centre, M.D.S.University ,Ajmer at University of Kota, Kota from January 30,2017, to February 4, 2017.

**Award/Fellowship:**

- CSIR-Junior Research Fellowship

**Memberships of Academic/ Professional bodies:**

- Life Member of Indian Society for Technical Education (ISTE), New Delhi. ( LM-64424)
- Life Member of Indian Chemical Society, Kolkata. (LM2013 F/7498)
- Life Member of Indian Science Congress, Kolkata.(LM 21485)