


Profile of the Faculty Member

1.	Name of the Faculty member	Dr. Kamla Rawat	
2.	Designation	Assistant Professor	
3.	Qualifications	PhD (Chemistry)	
4.	State of Domicile	Uttarakhand	
5.	Department & School	Chemistry & SCLS	
6.	Details of Courses taught	MFC -001 Foundation Course MCHCC -101 Physical Chemistry - I MCHCC-104 Lab. Course in Physical Chemistry- I MCHCC -201 Physical Chemistry - II MCHCC-206 Lab. Course in Physical Chemistry- II CC2TH. Basics of chemistry CC4TH Physical Chemistry I: States of Matter & Ionic Equilibrium CC6PR Physical Chemistry II: Phase Equilibria and Chemical Kinetics CC10TH Physical Chemistry III Electrochemistry CC12TH & PR Physical Chemistry IV: Quantum Chemistry & Spectroscopy DSE-1TH & PR Analytical Methods in Chemistry DSE-5PR Green Chemistry	
7.	Research Thrust Areas	Soft Matter- Nano-Bio Interface	
8.	Emails	kamlarawat@jamiahamdard.ac.in kamla.jnu@gmail.com	
PUBLICATIONS			
9.	Publications in peer reviewed National & International journals, Citations, H-index	For Publications Profile view at: Google Scholar: https://scholar.google.co.in/citations?hl=en&user=GZiJ7BoAAAAJ Scopus Author ID: 8218183900 ORCID: http://orcid.org/0000-0003-3825-376X	
BOOKS & BOOK CHAPTERS PUBLISHED			
10.	Number of books published by National publisher	00	
11.	Number of books published by international publisher	02 1. Ionic Liquid based Protein Solutions, Gels, and Complex Coacervates, Ph.D. Thesis is published as a book by Lambert Academic Publishing, Germany. ISBN: 978-3-659-93308-0. Kamla Rawat (2016) Lambert Academic Publishing, Germany. 2. Design of Nano-materials and Nanoscience, H. B. Bohidar and Kamla	

		Rawat (2017) Wiley-VCH, Germany.
12.	Number of Book Chapters in Edited books of National Publishers	00
13.	Number of Book Chapters in Edited books of International Publishers	02 1. Book Chapter in "Polyelectrolytes: Thermodynamics and Rheology, Visakh P. M., Oguz Bayraktar, Guillermo Alfredo Picó (Springer,Verlag 2014, 10.1007/978-3-319-01680-1ISBN: 978-3-319-01679-5 (Print) 978-3-319-01680-1 (Online)) "Biological Polyelectrolytes: Solutions, Gels, Intermolecular Complexes and Nanoparticles." Polyelectrolytes Engineering Materials 2014, 113-182 H. B. Bohidar and KamlaRawat(2014) Springer,Verlag. 2. Book Chapter in "Quantum dots"; edited by Dr. Vasilios Stavrou, Quantum Dots based nano-coatings for inhibition of microbial biofilms: A Mini Review, E. Priyadarshini, Kamla Rawat & H. B. Bohidar (2018) InTechOpen.
RESEARCH GRANTS AND CONSULTANCY PROJECTS		
14.	Number of research grants from govt. funding agencies as PI/Coordinator	04 (a) Synthesis of ternary nanocrystal-biopolymer nanocomposites for potential bioimaging and sensing applications by DST (35 Lakhs). (b) Structure-Property Characteristics of Low-energy Ion beam Irradiated Biopolymer Composites by DST-SERB (30.75 Lakhs). (c) Organometallic QDs based strip sensor for ferritin protein detection in human sera: Dual mode sensing property and their bioimaging applications by UGC-Start-up Grant (10.00 Lakhs). (d) Fluorescent multipurpose Bio-Dots-drug-nanoconjugate as Antifungal drug tracker by ICMR (23.00 Lakhs).
15.	Number of research grants from govt. funding agencies as Co-PI	00
16.	Number of research grants from International and private sources as PI	00
17.	Number of consultancy projects	00
RESEARCH SUPERVISION		
As Supervisor		
18.	Number of Ph.D. Guided	00

19.	Number of Master's theses/dissertations Guided	07 (awarded)
As Co-supervisor		
20.	Number of Ph.D. Guided	01 (ongoing)
21.	Number of Master's theses/dissertations Guided	00
PATENTS		
22.	Number of Patents Granted	<p>07</p> <ol style="list-style-type: none"> 1. Enzyme-Free Strip Sensor For Estimation Of Ascorbic Acid (3741/DEL/2014) H. B. Bohidar, P. R. Solanki, Kamla Rawat and A. Sharma (17 Dec 2014) Sanshadow Consultants Pvt. Ltd./India. 2. Self-healing and recovery of Gelatin-Ionic Liquid, Ionogel (1990/Del/2015) H. B. Bohidar, P. R. Solanki, Kamla Rawat and A. Sharma (01 July 2015) Sanshadow Consultants Pvt. Ltd./India . 3. Biocompatible Clay Ionogel Based Non-Enzymatic Oxalic Acid Sensor(201611025920) H. B. Bohidar, Kamla Rawat, P. R. Solanki and N. Joshi (28 July 2016) Anushri Gupta & Associates/India . 4. Hydrogen ion implanted enzyme-free clay based cholesterol sensor (201611029865) H. B. Bohidar, Kamla Rawat, K. Ashokan, D. Kanjilal, and N. Joshi (01 Sept 2016) Anushri Gupta & Associates/India. 5. Nanoclay and Ionic Liquid Based Electrochemical Sensor for Ascorbic Acid, Citric Acid and Cholesterol Detection (201611032667) H. B. Bohidar, Kamla Rawat and N. Joshi (24 Sept 2016) Sanshadow Consultants Pvt. Ltd./India. 6. Copper-Indium-Galium-Selenium Nanocrystals for Detection of Water in Deuterium Oxide at ppm Level (201611043211) H. B. Bohidar, Kamla Rawat and I.A. Mir (19 Dec 2016) Anushri Gupta & Associates/India. 7. CdSe quantum dot embedded gelatin matrix based hydrogen peroxide strip sensor (201711003559) H. B. Bohidar, Kamla Rawat and I. A. Mir (31 Jan 17) Sanshadow Consultants Pvt. Ltd./India.
23.	Number of Patents Applied for	00
PRESENTATIONS IN CONFERENCES AS SPEAKER/ RESOURCE PERSON		

24.	Number of presentations in National or International Conferences in India	04 Invited and 06 Oral
25.	Number of presentations in International Conferences abroad	01 Poster and 01 Oral
NATIONAL AWARDS, HONOURS AND FELLOWSHIPS RECEIVED		
26.	(a) Women Researcher Award" in the International Scientist Awards on Engineering, Science and Medicine by VDGOOD Professional Association (b) Dr. O. P. S. Sengar Memorial Young Scientist Award-2018 by Nano and Molecular Society, India" (NMS, India) in 2018 (c) DST-INSPIRE faculty Award by DST in 2014 (d) First prize in the poster competition at 12th CRSI National Symposium in Chemistry, Indian Institute of Chemical Technology in 2007 (e) Junior Research Fellowship (2007) CSIR	
INTERNATIONAL AWARDS, HONOURS AND FELLOWSHIPS RECEIVED		
27.	(a) Research Peace Award (2019-20) Innovative Researcher in Soft Matter & NanoBiointerface by RULA Awards, World Research Council and United Medical council in 2019 (b) Shastri Indo-Canadian Research Fellowship Awardee (2018) Shastri Indo-Canadian Institute Ph.D. (c) Thesis is published as a book Lambert Academic Publishing, Germany. ISBN: 978-3-659-93308-0. 2014.	
STAFF DEVELOPMENT/REFRESHER/SHORT TERM TRAINING PROGRAMME/WEBINARS ORGANIZED		
28.	1. ICRANN-2014 International conference at SCNS/ JNU from 15 Dec 2014 to 16 Dec 2014 as Secretary. 2. ICRANN-2016 National conference at SCNS/ JNU From 19 Dec 2016 to 20 Dec 2016 as Secretary. 3. POLY-2014 National conference at SCNS/ JNU From 09 Mar 2016 to 10 Mar 2016 as Secretary. 4. Viscoelasticity and Rheology National conference at SPS/ JNU From 22 August 2016 to 22 August 2016 as Secretary. 5. Soft Matter and Rheology National conference at SPS/ JNU From 22 May 2015 to 22 May 2015 as Secretary. 6. Small Angle X-ray Scattering (SAXS) National conference at SPS/ JNU From 27th July 2015 to 27th July 2015 as Secretary.	
MEMBER(S) OF NATIONAL COMMITTEES		
29.	Life member of Nano and Molecular Society, India Life member of Neutron Scattering Society of India	
MEMBER(S) OF INTERNATIONAL COMMITTEES		
30.	None	
ADMINISTRATIVE RESPONSIBILITIES/ PARTICIPATION IN COMMITTEES OF JAMIA HAMDARD		
31.	Tabulation of Department of Chemistry, SCLS. Member in the development of New course programme in Textile Chemistry in the Department of Chemistry, SCLS.	