


## FACULTY PROFILE PROFORMA

Title (Ms/Mr/Dr/Prof)	<b>Dr.</b>	First Name	<b>Rajesh Kumar</b>	Last Name	<b>Meena</b>	Photograph
Designation	<b>Assistant Professor</b>					
Department	<b>Chemistry</b>					
Address (Official)	<b>Department of Chemistry Kalindi College, University of Delhi East Patel Nagar, New Delhi-110008</b>					
Phone No.	<b>+91-9460168909</b>					
Email	<b>1988rajeshmeena@gmail.com</b>					
<b>Education</b>						
<b>Subject</b>	<b>Institution</b>			<b>Year</b>	<b>Details</b>	
Nanotechnology	University of Kota, Rajasthan, India			2019	Ph.D.	
Computer Science	Vardhman Mahaveer Open University			2013	RS-CIT	
Science (Biology)	University of Kota, Rajasthan, India			2012	B.Ed.	
Chemical Science	University of Rajasthan, Jaipur, India			2011	M.Sc.	
Chem., Zool., Botany	University of Kota, Rajasthan, India			2009	B.Sc.	
<b>Career Profile</b>						
<b>Organisation/Institution</b>		<b>Designation</b>		<b>Duration</b>		<b>Role</b>
Kalindi College, Delhi University, Delhi		Assistant Professor		24 July 2019 - Continue		Teaching
Maa Bharti P.G. College, UOK, Rajasthan		Assistant Professor		25/07/2018 to 23/07/2019		Teaching
M.D. Mission College, UOK, Rajasthan		Assistant Professor		01/09/2014 to 24/07/2018		Teaching
<b>Research Interests/Specialization</b>						
❖ Interest of research field like as fabrication, characterization and application of nanomaterials, quantum dots, plasmonic materials. As well as synthesis of inorganic and organic based nanomolecular devices via chemical and green synthesis methods for organic pollutant degradation and hydrogen/oxygen generation via water splitting.						
<b>Administrative Assignments / Contribution to corporate life</b>						
❖ Involved in NAAC Data Preparation of Department of Chemistry, University of Kota, Rajasthan India. ❖ Campus Ambassador of University of Kota in APOGEE 2015, 2017 & 2018 Technical festival of BITS Pilan, Rajasthan, India.						
<b>Teaching Experiences (Subject/Courses taught)</b>						
❖ Advanced Nanoscience and Nanotechnology, Solid States and Nanomaterials, Green Chemistry, Inorganic Chemistry, Organic Chemistry, Name Reactions, Stereochemistry, Photochemistry, Pericyclic Reactions, Reactions intermediates and Reaction Mechanism.						
<b>Research Guidance</b>						
❖ “Synthesis of CdS Nanoparticles Characterization and Optical Properties” UGC INSPIRE Scholarship Project Submitted in Department of Science & Technology, Delhi, during August 2015- March 2016. (Completed) ❖ “Synthesis of Ag Nanoparticles by acacia concinna plant extract, Characterization and Optical Properties” UGC INSPIRE Scholarship Project Submitted in Department of Science & Technology, Delhi, during August 2015- March 2016. (Completed)						
<b>Publication (Peer Reviewed/Indexed Journals)</b>						
❖ Biosynthesis of Silver Nanoparticles Using Trachyspermum Ammi and Evaluation of Their Antibacterial Activities, <i>J. Pharm. Biochemical Sciences</i> , 2015, 6(2): (B) 1077-1086.						

- ❖ ZnO Nanoparticles Synthesized by a Novel Approach at Room Temperature and Antibacterial activity, *American International Journal of Research in Formal, Applied & Natural Sciences*, 11(1), June-August 2105, pp. 68-72.
- ❖ Visible light harvesting Pt/CdS/Co-doped ZnO nanorods molecular device for hydrogen generation *International Journal of Hydrogen Energy*, 41(4) 2016, 2298-2306
- ❖ Biogenic Silver Nanoparticle from *Trachyspermum Ammi (Ajwain)* Seeds Extract used in Catalytic Reduction of p-Nitrophenol to p-Aminophenol in excess of NaBH<sub>4</sub>, *Journal of Molecular Liquids* 230 (2017) 74-84.
- ❖ Green synthesis of silver nanoparticles using acacia concinna plant extract and their antibacterial activity *Research Journal of Recent Sciences*, (2018) Vol. 7(3), 1-6.
- ❖ Electronic Structure and Room Temperature Ferromagnetism in Gd-doped Cerium Oxide Nanoparticles for Hydrogen Generation via Photocatalytic Water Splitting *Global Challenges* (2019), Published by WILEY-VCH Verlag GmbH & Co. KGaA, Weinheim.

#### **Publications Book Chapters: Author of Book Chapters**

- ❖ Co-Author of **Solar Energy Conversion and Storage Photochemical Modes: Some Photochemical Modes**, (*Editors: Suresh C. Ameta, Rakshit Ameta*) Chapter 8 Hydrogen: An Alternative fuel Neelu Chouhan, Rajesh Kumar Meena and R. S. Liu, Apple Academics Press CRC Press, a Taylor & Francis Group, Florida- USA. 2015 (978-48-224630-8)

#### **Seminar/Workshop/Conferences Presentation/Organisation**

- ❖ Around joined 20 International, National, Symposium, Workshop and Conferences and presented their research work.

#### **Awards & Distinctions**

- ❖ Awarded ICS Young Scientist Award in Chemical Sciences by Indian Chemical Society, India 2016.
- ❖ Dr. S. K. Banerjee Memorial Award in UGC-Sponsored National Conference on Modern Trends in Chemical Sciences 2016.
- ❖ Qualified National Eligibility Test (CSIR-NET) for lectureship conducted by CSIR-UGC, Dec, 2011.
- ❖ Qualified GATE-2019 examination in Chemistry, held by Indian Institute of Technology, IIT Madras in 2019

#### **Public Service/ University Service/ Consulting Activity**

- ❖ NCC C- Certificate in “B” Grade (2009 ) & NCC B- Certificate in “B” Grade (2008 )
- ❖ Dr. Meena arranged a visit for Ms.c Students learned for water treatment process, 130 MLD Water Treatment Plant Sakatpura, kota; Kota, Rajasthan (April 2017)

#### **Professional Societies Memberships**

- ❖ Life membership of Indian society of technical Education (ISTE)

#### **Projects (Major Grants/ Collaborations)**

- ❖ DST Research Project “Eco-friendly photocatalytic degradation of plastic waste for LPG production” Department of Science & Technology, Rajasthan (2014-15).
- ❖ Advanced Nanotechnology & Nanomaterials, Coalesce Research Group USA.

#### **Other Details / Skills**

- Synthesis and fabrication of metallic nanoparticles, Quantum dots, graphitic CN, metal oxide and metal sulfide semiconductor nanoparticles using different synthetic routes.
- Applications of metal, metal oxide and sulfide nanoparticles in catalysis and dye degradation and their recovery after the reaction.
- Optical microscope: FESEM, HRTEM, and Spectroscopy techniques UV-Vis spectroscopy, FT-IR, EDS, XPS, Photoluminescence & Powder XRD.