


FACULTY PROFILE

Title (Ms/Mr/Dr/Prof)	Dr.	First Name	Rajesh Kumar	Last Name	Meena	Photograph
Designation	Assistant Professor					
Department	Chemistry					
Address (Official)	Department of Chemistry Kalindi College, University of Delhi East Patel Nagar, New Delhi-110008					
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Email	rajeshkumarmeena@kalindi.du.ac.in 1988rajeshmeena@gmail.com					
Education						
Subject	Institution			Year	Details	
Nanotechnology	University of Kota, Rajasthan, India			2019	Ph.D.	
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.	
Career Profile						
Organisation/Institution		Designation		Duration		Role
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
Research Interests/Specialization						
<p>❖ 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.</p>						
Administrative Assignments / Contribution to corporate life						
<p>❖ Co-Convener: Management Information System Committee Academic session 2021-22.</p> <p>❖ Co-Convener: SC/ST/OBC Cell Committee for the academic session 2021-22.</p> <p>❖ Co-Convener: Non-Teaching Staff Feedback for the academic session 2021-22.</p> <p>❖ Co-Convener: Value-Added Courses for the academic session 2021-22.</p> <p>❖ Committee Member: Admission Committee for the academic session 2021-22</p> <p>❖ Committee Member: Attendance Committee for the academic session 2020-21.</p> <p>❖ Committee Member: Criteria 1 AQAR Committee for the academic session 2021-22.</p> <p>❖ Committee Member: NAAC Data Preparation (Computational team)for the academic session 2021-22.</p> <p>❖ Admission related duties at Kalindi College:</p> <ul style="list-style-type: none"> - Member of Core Committee Assistance for session 2021-22. - Actively participated and completed the duties assigned by Kalindi College Committees. - Appointed as an Internal Examiner & External Examiner for Semester Practical Examination at DU for B.Sc. Hons and Programme courses. - Examiner: Appointed as an examiner for Paper Setting of B.Sc. Hons Chemistry, B.Sc. Programme Chemistry in 2019-20, 2020-21 and 2021-22. - Invigilation duties for Practical & Theory Examination (regular, SOL, non-colleageate) at Kalindi College. - Evaluation for theory papers at the evaluation center for chemistry. <p>❖ Member: Committee for Organizing “Lehren” the Inter-college Cultural Fest, 2020 by Kalindi College.</p> <p>❖ Involved in NAAC Data Preparation of Kalindi College, University of Delhi, Delhi (India).</p>						

- ❖ Participation Internal Quality Assurance Cell (IQAC) Kalindi College Organized Training session for Teaching and non-Teaching Staff on 11th June 2020
- ❖ 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.

Academic and Extra-curricular Activities for students

- ❖ **Staff Advisor:** Online event 'Rasayanika-21' organized by Rasa-ion, Chemical Society of Kalindi College, University of Delhi on 25th and 26th February 2021.
- ❖ **Staff Advisor:** Documentary on the theme of 'Celebrating Marie Curie: A Life Story' under Rasaion, Chemical Society of Kalindi College in the academic session 2020-21.
- ❖ **Organizer:** Online Inter-College Poster Competition organized by Rasa-ion, Chemical Society of Kalindi College, University of Delhi in October 2020.
- ❖ **Member:** Inter college cultural event 'JAM' Just a minute organized in College Fest 'Lehren'
- ❖ **Resource Person:** Value Added Course on "Green Synthesis of Nanomaterial and Applications" held from 28 September to 6 November 2020 organized by the Department of Chemistry, Kalindi College, University of Delhi, Delhi.
- ❖ **Coordinator** of Value Added Course on " Fundamentals of Nanomaterials and Nanotechnology" held from 12 November to 27 November 2021 organized by the Department of Chemistry, Kalindi College, University of Delhi, Delhi.
- ❖ **Resource Person:** Value Added Course on " Fundamentals of Nanomaterials and Nanotechnology" held from 12 November to 27 November 2021 organized by the Department of Chemistry, Kalindi College, University of Delhi, Delhi.

Teaching Experiences (Subject/Courses taught)

- ❖ 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.

Research Guidance 5

- ❖ "Synthesis of CdS Nanoparticles Characterization and Optical Properties" UGC INSPIRE Scholarship Project Submitted in Department of Science & Technology, Delhi, during August 2015- March 2016.
- ❖ "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.
- ❖ Kalindi College, University of Delhi funded research project for students entitled 'Synthesis of ZnO Nanomaterial by Precipitation Method and Characterization for Photocatalytic degradation of Contaminants in water' July 2019-June 2020.
- ❖ Kalindi College, University of Delhi funded research project for students entitled 'Synthesis of Nanomaterial for Removal of Heavy Metal Ions from Wastewater' 2021-22.
- ❖ Kalindi College, University of Delhi funded research project for students entitled 'Green Synthesis of Silver Nanoparticles from Leaf Extract of *Rhoeo discolor* and Study its Antimicrobial Properties' 2021-22.

Publication (Peer Reviewed/Indexed Journals) 25 Total Citations 240 h-index: 06 i10-index 05

- ❖ Biosynthesis of Silver Nanoparticles Using *Trachyspermum Ammi* and Evaluation of Their Antibacterial Activities, *J. Pharm. Biochemical Sciences*, 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 NaBH₄, *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 (10)

- ❖ 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 (120)

- ❖ Around joined 120 International, National, Symposium, Workshop and Conferences and presented their research work.

Administrative/Examination Assignments

S. No.	Nature of Activity	Designation	Institution/Department	Period
1	Paper Evaluation	Evaluator	VMOU, Kota, Rajasthan	2016-2019
2	Paper Evaluation	Evaluator	University of Rajasthan	2018-2019
3	Practical Examiner	Examiner	University of Kota	2018-2019
4	Practical Examiner	Examiner	University of Rajasthan	2019-2021
5	Paper Evaluation	Evaluator	University of Delhi	Nov 2019
6	Paper Evaluation/Paper Setter	Evaluator/Examiner	University of Delhi	June 2020
7	Paper Evaluation/Paper Setter	Evaluator/Examiner	University of Delhi	Nov 2020
8	Paper Evaluation/Paper Setter	Evaluator/Examiner	University of Delhi	June 2021
9	Paper Evaluation/Paper Setter	Evaluator/Examiner	University of Delhi	Dec 2021

Awards & Distinctions (25)

- ❖ 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 (12)

- ❖ Life membership of Indian society of technical Education (ISTE)
- ❖ Soft Material Research Society (SMRS)
- ❖ Indian Chemical Society (ICS)

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.