




University of Delhi

Faculty Detail Proforma



Name	Dr. Hemandra Kumar Tiwari	
Designation	Assistant Professor	
Department	Chemistry	
Email	hemandratiwari@dr.du.ac.in	

Educational Qualification

Degree	Institution	Year
B.Sc.	CCS University Meerut	2000
M.Sc.(Organic Chemistry)	CCS University Meerut	2002
Ph.D(Chemistry)	CCS University Meerut	2012

Full Time Research Experience

Designation	Institute	Time period	Nature of Appointment
Product manager	Dalton Chemicals Pvt. Ltd, Loni-Ghaziabad	January 2014 to April 2016	Temporary
Product manager	Dalton Chemicals Pvt. Ltd, Loni-Ghaziabad	March 2017 to April 2019.	Temporary

Full time Teaching Experience

s.no	Designation	Institution	Time Period	Nature of Appointment
1.	Associate Professor	Department of Chemistry, Kano University of Science & Technology, Wudil, Nigeria	June 2016 to 3 rd March 2017	Contractual
2.	Associate Professor	Department of Chemistry, Sarvottam Institute	September 2012 to December 2013	Temporary

		of Technology & Management, Greater Noida		
3.	Assistant Professor	New Adarsh Institute of Education Loni-Ghaziabad	May 2019 to December 2021	Temporary
4.	Assistant Professor	Department of Chemistry, University of Delhi	January 2022 to July 2023	Guest

Areas of Interest:

Peptidomimetic Synthesis, Microwave Synthesis, Drug Designing, Parasitology and Biochemistry of <i>P. falciparum</i> , Protein-Protein Interaction, X-ray crystallography of enzyme-inhibitor complex, Heterocyclic Synthesis, etc
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Subjects Taught

S. No	Course	Subject Taught	Semester	Year
1.	B.Tech.	Bioscience & Chemistry	I & II	2012-2013
2.	B.Sc. & M.Sc.	Organic Chemistry	I, II, III & IV	2016-2017
3.	B.Sc.	Inorganic, Organic & Physical Chemistry	I, II & III	2019-2021
4.	M.Sc.	Organic Chemistry	II	Jan-2022 to July 23

Research Guidance

Name of student	Gender	Degree for which guidance given	Date of Registration	Supervisor/ Co-supervisor	University	Title of Thesis	Date of submission of thesis	Date of Award of Degree
Abdullahi Bashir	Male	M.Sc.			Kano University of Science & Technology,	“Isolation & Characterization of DNA from Onion”	2016	2017

					Wudil, Nigeria			
Farook	Male	M.Sc.			Kano University of Science & Technology, Wudil, Nigeria	“Controlled Synthesis of Two Copper Oxalate Hydrate Complexes: Kinetic versus Thermodynamic Factors”	2016	2017

Research Publications:

International and National

S.No	Details with ISSN	Date of Publishing	Impact Factor	UGC Care List Journal Yes/No	Scopus Indexed Journal Yes/No	Affliating University/college mentioned on the paper	Citation	H index
1.	Preparation, properties & applications of butyl acrylate, acrylonitrile, methacrylic acid based polymers, <i>IJPAS</i> , 05(05), 18-22(2018) ISSN: 2394-5710	2018	between 2 and 5	Yes	-	University of Delhi		
2.	In vitro anti-malarial evaluation of piperidine and piperazine-based chalcones: inhibition of falcipain-2 and plasmepsinII hemoglobins activities from <i>Plasmodium falciparum</i> , <i>ChemistrySelect</i> , 2(25),7684-90(2017). ISSN: 2365-6549	2017	between 2 and 5	Yes	Yes	University of Delhi		

3.	Preparation, properties & applications of alkyl acrylate & styrene based polymers, <i>IRJNAS</i> , 04(08), 228-233(2017). ISSN: 2349-4077	2017	between 2 and 5	Yes		University of Delhi		
4.	Facile route synthesis of Ilmenite MnTiO ₃ : Its Electrical & Structural Studies, <i>IJPAS</i> , 03(10), 67-77 (2016) ISSN: 2394-5710	2016	between 2 and 5	Yes		University of Delhi		
5.	Antigiardial activity of novel triazolyl-quinolone based chalcone derivatives: when oxygen makes the difference, <i>Frontiers in Microbiology</i> published: 08 April 2015 doi:10.3389/fmicb.2015.00256	2015	between 2 and 5	Yes	Yes	University of Delhi		
6.	Inhibition of plasmeprin II, a malarial aspartic hemoglobinase from <i>Plasmodium falciparum</i> by novel peptidomimetic small molecules, <i>IJPAS</i> , 02(09), 64-90 (2015). ISSN: 2394-5710	2015	between 2 and 5	Yes		CCS University, Meerut		
7.	Synthesis, Structural Aspects and Nonlinear Optical Properties of Novel Phthalimide Derivatives: Theoretical and Experimental Approach, , <i>J. Phy. Org. Chem.</i> , (DOI: 10.1002/poc.3287) (February 2014). ISSN: 1099-1395	2014	between 2 and 5	Yes	Yes	University of Delhi		

8	O ₂ -dependent efficacy of novel piperidine/piperazine-based chalcones against the human parasite <i>Giardia intestinalis</i> , <i>Antimicrob Agents Chemo</i> , 58(1), 543-549 (2014) ISSN: 1098-6596	2014	between 2 and 5	Yes	Yes	University of Delhi		
9	Functionalized Hydroxyethylamine Based Peptide Nanostructures As Potential Inhibitors of Falcipain-3, an Essential Proteases of <i>Plasmodium falciparum</i> , <i>Bioorg. & Med. Chem.</i> , 21(17), 5503-5509 (2013). ISSN: 09680896	2013	between 2 and 5	Yes	Yes	University of Delhi		
10.	Entry of chiral phthalimides with significant second order nonlinear optical and piezoelectric properties, <i>RSC Advances</i> , 3, 14750-14756 (2013) ISSN: 2046-2069	2013	between 2 and 5	Yes	Yes	University of Delhi		
11	Chalcones induced inhibition of plasmepsin II, a hemoglobin degrading malarial aspartic protease from <i>P. Falciparum</i> , <i>J. Pharm. Res</i> , 4(4), 1253-1258 (2011) ISSN: 0974-6943	2011	Less than 1	Yes		CCS University Meerut		
12.	Antimalarial evaluation of Copper(II) nanohybrid solids : Inhibition of plasmepsin II, a hemoglobin degrading malarial aspartic protease from <i>P. falciparum</i> , <i>J. Biol.</i>	2010	between 2 and 5	Yes	Yes	CCS University Meerut & University of Delhi		

	<i>Inorg. Chem.</i> 15,373-385 (2010) ISSN: 1432-1327							
13	Synthesis and dyeing action of novel thioindigoid reactive dyes, <i>Asian J Chem</i> , 23(7), 3127-3129 (2010) ISSN: 0975-427x	2010	Less than 1	Yes		CCS University Meerut		

Conference Attended and Paper presentation

s.no	Type of Event	Name of Event	Venue of conference	Date of conference	Attended	paper presented	No of papers presented
1.	National Seminar	Global Changes and Challenges	NREC College, Khurja (UP)	March 14-15, 2010		Yes	01
2.	International Conference	Frontiers of Science & Technology	KITE, Ghaziabad	January 6-7, 2017		Yes	01(Poster)
3.	International Conference	Chemistry and Medicinal Plants in Translational Medicine for Healthcare	Department of Chemistry, University of Delhi, Delhi	March 1-4, 2014	Yes		
4.	National Seminar	Emerging economics & Challenges to sustainability towards developing Nation	Department of Chemistry, Sri Aurobindo College, University of Delhi, Delhi	March 29-30, 2016	Yes		
5.	National Seminar	Role of Analytical techniques in Biological and Environmental Sciences	Conference Centre and Kirori Mal College, University of Delhi, Delhi	January 27-29, 2011.	Yes		