




University of Delhi



Faculty Detail Proforma

Name of Faculty

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	2011

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
Research Scholar	Biochemistry Laboratory, National Institute of Malaria Research, Dwarka, Delhi	2007-2009	-

Full time Teaching/Research Experience:

S.No.	Designation	Institution	Time Period	Nature of Appointment
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1.	Associate Professor	Department of Chemistry, Kano University of Science & Technology, Wudil, Nigeria	April 2016 to 31 <sup>st</sup> March 2017	Contractual
2.	Assistant Professor	Department of Chemistry, Sarvottam Institute of Technology & Management, Greater Noida	September 2012 to December 2013	Temporary
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

Administrative Assignments:

Name of Institute	Designation	Status	Time period	Experience

Areas of Interest:

Peptidomimetic Synthesis, Microwave Synthesis, Drug Designing, Parasitology and Biochemistry of *P. falciparum*, Protein-Protein Interaction, Enzyme Kinetics, X-ray crystallography of enzyme-inhibitor complex, Heterocyclic Synthesis, etc

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/ Cosupervisor	University	Title of Thesis	Date of submission of thesis	Date of Award of Degree
Abdullahi Bashir	Male	M.Sc.			Kano University of Science & Technology, Wudil, Nigeria	“Isolation & Characterization of DNA from Onion”	2016	2017
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 Projects

S.No	Name of Research Project	Funding Agency	National/International	Duration	Amount Sanctioned	Amount Received

Research projects Completed

S.No	Name of Research Project	Funding Agency	National/International	Duration	Amount Sanctioned	Amount Received

Publications:

Books

S.No	Details	Publisher	Date of publishing	Authored/Edited	ISBN No

Book Chapters/Articles

S.No	Details	Date of publishing	Authored/Edited	ISBN No

E- Modules

S.No	Details	Publisher details	Date of publishing	Authored/Edited	Link

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	Affiliating 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 plasmepsin II 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 <sub>3</sub> : Its Electrical & Structural Studies, <i>JPAS</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 plasmepsin 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 <sub>2</sub> -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. &amp; 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) nano hybrid solids : Inhibition of plasmepsin II, a hemoglobin degrading malarial aspartic protease from <i>P. falciparum</i> , <i>J. Biol. Inorg. Chem.</i> 15,373-385(2010) ISSN: 1432-1327	2010	between 2 and 5	Yes	Yes	CCS University Meerut & University of Delhi		
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 Proceedings publication

S.no	Details	Date of Publishing	Name of conference	Venue of conference	ISBN No

#### 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		

**Resource Person (Conference/seminar/ workshop/training programme/ educational trips)**

S.No	Type of Event	Name of Event	Venue	Date of Event	State your role: Convener/Member organizing committee/ Speaker/ Coordinator	Duration of Activity	No of participant in the programme


Awards Won

S.No	Name of Award	Awarding Agency	Government/ NGO/ International/Private	Recognition area	Date of award	Type of Honor received

Extension Activity( Community related program )

S.No	Type of Activity	Centre and Venue	Title of Event	Role in the event	Date/period of Event	No of members of the community/students /Faculty benefitted

Membership of Professional Bodies:

	Type of Membership	Organisation	Year of Membership