



Kirori Mal College

(University of Delhi)

University of Delhi, Delhi-110007

(Phone No. - 011-7121 9084 : Email - principal@kmc.du.ac.in)



Print Date : 03-04-2026

1. Personal Profile

Title: **Dr.** First Name: **AKHILESH** Last Name: **BHARTI**

Designation: **ASSISTANT PROFESSOR** Mobile No. **8506876628**

Phone No. (Office) **011-71219084** Phone No. (Residence): -----

Email: **akhileshbhu86@kmc.du.ac.in** Webpage: -----



Facebook: ----- Twitter: -----

LinkedIn: ----- Instagram: -----

Youtube: ----- Research Gate Link: -----

Google Scholar Link: -----

Address: -----

2. Educational Qualifications

Degree/ Certification	Institution	Year
B.Sc. (Hons) Chemistry	Banaras Hindu University	2008
M.Sc. (Chemistry)	Banaras Hindu University	2010
CSIR NET JRF	CSIR New Delhi	2010
Ph. D. (Chemistry)	Banaras Hindu University	2014

3. Career Profile & Administrative Assignments

Category	Role/ Designation	Department/ Committee	Date From - To	Remarks
CAREER PROFILE	ASSISTANT PROFESSOR	CHEMISTRY KIRORI MAL COLLEGE, DELHI	01.May.2014 - Till date	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	STANDING COMMITTEE FOR MONITORING ADMISSIONS	20.Jun.2018 - 31.Aug.2021	

ADMINISTRATIVE ASSIGNMENTS	MEMBER	FEE CONCESSION COMMITTEE	01.Jun.2018 - 20.May.2020	
ADMINISTRATIVE ASSIGNMENTS	CONVENER	FEE CONCESSION COMMITTEE	01.Jul.2020 - 20.May.2022	
ADMINISTRATIVE ASSIGNMENTS	CONVENER	GARDEN COMMITTEE	01.Jun.2021 - 20.May.2023	
ADMINISTRATIVE ASSIGNMENTS	CONVENER	AUDIO-VISUAL FACILITIES AND EQUIPMENT MAINTENANCE COMMITTEE	30.Jun.2023 - 30.Jun.2024	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	HOSTEL ADMISSION COMMITTEE	01.Jun.2021 - 20.May.2023	
ADMINISTRATIVE ASSIGNMENTS	TEACHER-IN-CHARGE	CHEMISTRY	01.May.2020 - 30.Apr.2021	
CAREER PROFILE	SECRETARY STAFF ASSOCIATION	ALL DEPARTMENT	25.Nov.2020 - 31.Mar.2022	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	FEE CONCESSION COMMITTEE Kirori Mal College	01.Jul.2023 - 30.Jun.2024	
CAREER PROFILE	MEMBER	SPORTS COUNCIL Kirori Mal College	01.Jul.2023 - 30.Jun.2024	
CAREER PROFILE	MEMBER	THE PLAYERS – THE THEATRE SOCIETY Kirori Mal College	01.Jul.2023 - 30.Jun.2024	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	CHEMISTRY Member, Purchase Committee, Chemistry, Kirori Mal College	01.Jul.2023 - 30.Jun.2024	Member, Purchase Committee
ADMINISTRATIVE ASSIGNMENTS	MEMBER	THE PLAYERS – THE THEATRE SOCIETY Kirori Mal College	01.Jul.2023 - 30.Jun.2024	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	SPORTS COUNCIL Kirori Mal College	01.Jul.2023 - 30.Jun.2024	
ADMINISTRATIVE ASSIGNMENTS	CONVENER	AUDIO-VISUAL FACILITIES AND EQUIPMENT MAINTENANCE COMMITTEE Kirori Mal College	01.Jul.2024 - 31.May.2025	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	FEE CONCESSION COMMITTEE Kirori Mal College	01.Jul.2024 - 31.May.2025	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	SPORTS COUNCIL Kirori Mal College	01.Jul.2024 - 31.May.2025	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	THE PLAYERS – THE THEATRE SOCIETY Kirori Mal College	01.Jul.2024 - 31.May.2025	
ADMINISTRATIVE ASSIGNMENTS	CONVENER	CHEMISTRY Purchase Committee, Department of Chemistry, Kirori Mal College	01.Jul.2024 - 31.May.2025	

ADMINISTRATIVE ASSIGNMENTS	MEMBER	CHEMISTRY Time Table & Work Load Committee	01.Jul.2024 - 31.May.2025	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	CHEMISTRY Student Faculty Committee, Department of Chemistry, Kirori Mal College	01.Jul.2024 - 31.May.2025	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	FEE CONCESSION COMMITTEE Kirori Mal College	01.Jun.2025 - 30.Jun.2026	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	AUDIO-VISUAL FACILITIES AND EQUIPMENT MAINTENANCE COMMITTEE Kirori Mal College	01.Jun.2025 - 30.Jun.2026	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	EQUAL OPPORTUNITY CELL Kirori Mal College	01.Jun.2025 - 30.Jun.2026	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	THE PLAYERS – THE THEATRE SOCIETY Kirori Mal College	01.Jun.2025 - 30.Jun.2026	
ADMINISTRATIVE ASSIGNMENTS	CONVENER	CHEMISTRY Kirori Mal College	01.May.2025 - 30.Apr.2026	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	CHEMISTRY Kirori Mal College	01.May.2025 - 30.May.2026	Student Faculty Committee
ADMINISTRATIVE ASSIGNMENTS	CONVENER	CHEMISTRY Kirori Mal College	01.May.2025 - 30.Apr.2026	Convener, Purchase Committee, Department of Chemistry, Kirori Mal College
ADMINISTRATIVE ASSIGNMENTS	MEMBER	CHEMISTRY Kirori Mal College	01.May.2025 - 30.Apr.2026	Student Faculty Committee

4. Other Profiles

Other Profile Name/ Description

AREAS OF INTEREST/ SPECIALIZATION

Inorganic Chemistry

SUBJECTS TAUGHT

1. B.Sc.(H) Chemistry I Sem, Paper Name: Inorganic Chemistry-I: Atomic Structure and Chemical Bonding (Theory and Practical Classes)
2. B.Sc.(H) Chemistry II Sem, Paper Name: Chemistry of s and p block elements (Theory and Practical Classes)
3. B.Sc.(H) Chemistry IV Sem, Paper Name: Coordination Chemistry and Inorganic Reaction Mechanism (Theory and Practical Classes)
4. B.Sc.(H) Chemistry V Sem, Paper Name: Novel Inorganic Solids (Practical Classes)
5. B.Sc.(Prog) Life Sciences VI Sem, Paper Name: Organometallics, Bioinorganic Chemistry, Polynuclear Hydrocarbon and IR& UV Spectroscopy (Theory and practical classes)

5. Research Guidance

Year	Guide For	Title of the Dissertation/ Thesis	Scholar Name	Status
2023	Ph. D.	Base mediated Chemo and Regioselective and Methylsufination of alkenesIntermolecular Hydroamination	Ms. Priyanka Meena	Awarded

6. Research Projects

Year	Title of Project	Sponsorship Agency	Duration	Amount Sanctioned	Date of Sanction
2015	Synthesis, structural characterization, thermal behaviour, photoluminescent and anti-cancer activity of transition metal complexes of nitrogen-sulphur containing ligands.	University Grants Commission, New Delhi	2 years	6 Lakh	05.Oct.2015

7. Publications

Category	Publication Name	Title	Name of Author	Reference Link/ DOI Link	Publication (Month-Year)
JOURNAL PAPER (International)	New Insights into Cu/Cu ₂ O/CuO Nanocomposite Heterojunction Facilitating Photocatalytic Generation of Green Fuel and Detoxification of Organic Pollutants	American Chemical Society	7 (Joint Author)		April 2023
JOURNAL PAPER (International)	Ag(I), Cu(II), Co(III) and Hg(II) complexes and metalassisted products derived from 4-methylpiperidine-carbodithioate: syntheses, structures, thermal analyses, redox behaviour and fluorescence properties†	Royal Society of Chemistry	7 (Joint Author)		October 2016

JOURNAL PAPER (International)	Antiproliferative activity and electrochemical oxygen evolution by Ni(II) complexes of N'-(aroyl)-hydrazine carbodithioates	Royal Society of Chemistry	9 (Joint Author)		September 2021
JOURNAL PAPER (International)	Electrocatalytic oxygen evolution and antiproliferative activity of Co(III) complexes stabilized by in situ generated bis(5-furan/phenyl-1,2,4-triazole)-3-sulfonamide	Applied Organometallic Chemistry/Wiley	10 (Joint Author)		October 2021
JOURNAL PAPER (International)	Synthesis and X-Ray Structural studies of Cd(II) and Ni(II) complexes of 5-(4-methoxyphenyl), 5-(2-pyridyl) and 5-(2-methoxyphenyl)-1,3,4-oxadiazole-2-thione	Journal of Molecular Structure/Elsevier	6 (Joint Author)	doi:10.1016/j.molstruc.2011.12.015	December 2011
JOURNAL PAPER (International)	Synthesis, structure, photoluminescence and electrochemical properties of mononuclear Ag(I) and polymeric Zn(II) complexes of potassium 4-methyl piperazine-1-carbodithioate	Journal of Molecular Structure/Elsevier	7 (Joint Author)	https://doi.org/10.1016/j.molstruc.2018.09.055	September 2018
JOURNAL PAPER (International)	Syntheses, spectral and structural characterization of Ni(II) complexes of 4-amino-5-phenyl/3-pyridyl/thiophen-2H-1,2,4-triazole-3-thione	Journal of Molecular Structure/Elsevier	M.K. Bharty, Pooja Bharati, A. Bharti, A. Singh, Sanjay Singh, N.K. Singh (Joint Author)	http://dx.doi.org/10.1016/j.molstruc.2013.10.057	October 2013

JOURNAL PAPER (International)	Trinuclear supramolecular Zn(II) complexes derived from N0-(pyridine carbonyl) hydrazine carboperthioates: Synthesis, structural characterization, luminescent properties and metalloaromaticity	Inorganica Chimica Acta/Elsevier	Pooja Bharati, A. Bharti, U.K. Chaudhari, M.K. Bharty, S. Kashyap, Udai P. Singh, N.K. Singh (Joint Author)	http://dx.doi.org/10.1016/j.ica.2014.10.005	October 2015
JOURNAL PAPER (International)	Square planar Pd(II) complexes derived from 1-ethyl-3-phenylthiourea, 3-mercapto-4-methyl-1,2,4-triazole and 2-mercapto-5-methyl-1,3, 4-thiadiazole: Syntheses, spectral, structural characterization and photoluminescence properties	Inorganica Chimica Acta/Elsevier	P. Bharati, A. Bharti, P. Nath, S. Kumari, N.K. Singh, M.K. Bharty, (Joint Author)	http://dx.doi.org/10.1016/j.ica.2016.01.003	January 2016
JOURNAL PAPER (International)	NNS tridentate thiosemicarbazide and 1,3,4-thiadiazole 2-amine complexes of some transition metal ions: Syntheses, structure and fluorescence properties	Journal of Coordination Chemistry	A. Bharti, Pooja Bharti, M.K. Bharty & N.K. Singh (Joint Author)	doi:10.1080/00958972.2016.1160074	March 2016
JOURNAL PAPER (International)	Studies on phenylmercury(II) complexes of nitrogen–sulfur ligands: Synthesis, spectral, structural characterization, TD-DFT and photoluminescent properties	Polyhedron/Elsevier	A. Bharti, P. Bharati, Ram Dulare, M.K. Bharty Dheeraj K. Singh, N.K. Singh (First Author)	http://dx.doi.org/10.1016/j.poly.2013.08.032	August 2013

JOURNAL PAPER (International)	Mononuclear Ag(I), dinuclear and polymeric Hg(II) complexes of 3-mercapto-4-methyl-4H-1,2,4-triazole: Syntheses, spectral, X-ray, photoluminescence and thermal analysis	Polyhedron/Elsevier	A. Bharti, P. Bharati, M.K. Bharty, R.K. Dani, Sanjay Singh, N.K. Singh (First Author)	http://dx.doi.org/10.1016/j.poly.2013.02.035	February 2013
JOURNAL PAPER (International)	Synthesis and theoretical evaluation of a benzylthio-substituted 1,3,4-oxadiazole: Structural characterization and anticancer assessment in Dalton's Lymphoma	Journal of Molecular Structure/Elsevier	Vivek Kumar, Varsha Singh, Akhilesh Bharti, Somenath Garai, Sushil K Gupta, Arbind Acharya, R.J.Butcher, M.K.Bharty (Joint Author)	http://dx.doi.org/10.1016/j.molstruc.2025.144718	February 2026
JOURNAL PAPER (International)	New Insights into Cu/Cu ₂ O/CuO Nanocomposite Heterojunction Facilitating Photocatalytic Generation of Green Fuel and Detoxification of Organic Pollutants	Journal of Physical Chemistry C/American Chemical Society	Sanjeev Kumar, Bhawna, Akanksha Gupta,* Ravinder Kumar, Akhilesh Bharti, Ashwani Kumar, and Vinod Kumar (Joint Author)	10.1021/acs.jpcc.2c08094	May 2023

CHAPTER (International)	Integrated Waste Management	Springer	Karambir Singh, Naveen Kumar, Akhilesh Bharti, Pankaj Thakur, Vinod Kumar (Joint Author)	978-981-97-0822-2	September 2024
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8. Books

Category	Book Name	Title	Name of Author	ISSN/ ISBN Number
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9. Faculty Achievements

Year	Category of Achievement	Role	National/ International etc.	Name	Date From- To
2018	REFRESHER COURSE ATTENDED	ASSISTANT PROFESSOR	National	UGC Sponsored Refresher Course	01.Jan.2018 - 23.Jan.2018
2021	REFRESHER COURSE ATTENDED	ASSISTANT PROFESSOR	National	"Chemistry-The Catalyst for Change"	14.Jul.2021 - 28.Jul.2021
2024	REFRESHER COURSE ATTENDED	PARTICIPANT	National	"Managing Online Classes & Co- creating MOOCS"	07.Jan.2024 - 21.Jan.2024
2020	REFRESHER COURSE ATTENDED	ASSISTANT PROFESSOR	National	Online Refresher Course in Chemistry for Higher Education	10.Nov.2019 - 15.Sep.2020
2025	FACULTY DEVELOPMENT PROGRAM ATTENDED	PARTICIPANT	University	Faculty Development Programme on "Bhartiya Gyan Parampara"	20.Jan.2025 - 25.Jan.2025
2016	FACULTY DEVELOPMENT PROGRAM ATTENDED	ASSISTANT PROFESSOR	National	UGC Sponsored Orientation Course	02.Jan.2016 - 29.Jan.2016
2025	REFRESHER COURSE ATTENDED	PARTICIPANT	National	Refresher course Attended " NEP 2020 Orientation & Sensitization Programme"	06.Oct.2025 - 15.Oct.2025
2016	ONLINE CERTIFICATE COURSE/ TRAINING PROGRAMS ATTENDED	ASSISTANT PROFESSOR	National	X-Ray Structure Determination	13.Jun.2016 - 26.Jun.2016