



# Kirori Mal College

(University of Delhi)

University of Delhi, Delhi-110007

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



Print Date : 31-05-2026

## 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 <sub>2</sub> O/CuO Nanocomposite Heterojunction Facilitating Photocatalytic Generation of Green Fuel and Detoxification of Organic Pollutants	American Chemical Society	7 (Joint Author)		May 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)		October 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)	<a href="https://doi.org/10.1016/j.molstruc.2018.09.055">https://doi.org/10.1016/j.molstruc.2018.09.055</a>	October 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)	<a href="http://dx.doi.org/10.1016/j.molstruc.2013.10.057">http://dx.doi.org/10.1016/j.molstruc.2013.10.057</a>	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)	<a href="http://dx.doi.org/10.1016/j.ica.2014.10.005">http://dx.doi.org/10.1016/j.ica.2014.10.005</a>	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)	<a href="http://dx.doi.org/10.1016/j.ica.2016.01.003">http://dx.doi.org/10.1016/j.ica.2016.01.003</a>	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)	<a href="http://dx.doi.org/10.1016/j.poly.2013.08.032">http://dx.doi.org/10.1016/j.poly.2013.08.032</a>	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)	<a href="http://dx.doi.org/10.1016/j.poly.2013.02.035">http://dx.doi.org/10.1016/j.poly.2013.02.035</a>	March 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)	<a href="http://dx.doi.org/10.1016/j.molstruc.2025.144718">http://dx.doi.org/10.1016/j.molstruc.2025.144718</a>	March 2026
JOURNAL PAPER (International)	New Insights into Cu/Cu <sub>2</sub> 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	October 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