



Kirori Mal College

(University of Delhi)

University of Delhi, Delhi-110007

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



Print Date : 02-07-2026

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 | |

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| 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 | |

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| 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 |

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| 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 |

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| 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 |

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| 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 |

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| 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 |