



## ZAKIR HUSAIN DELHI COLLEGE

(University of Delhi)

### Faculty Details

(Please Fill the form and Email it to [website@zh.du.ac.in](mailto:website@zh.du.ac.in))

Dr.	Jyoti	Singh	<b>Photograph</b>	
<b>Designation</b>	Assistant professor			
<b>Address</b>	A-41B, Vijay Nagar, Single Storey. Delhi-110009			
<b>Phone Number</b>	<b>Office</b>			
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<b>Educational Qualification</b>				
<b>Degree</b>		<b>Institution</b>	<b>Year</b>	
Undergraduate	B.Sc(H) Chemistry	Delhi University	1999-2002	
Postgraduate	M.Sc Chemistry	Delhi University	2002-2004	
M.Phil.	-	-		
Ph.D.	Inorganic Chemistry	Delhi University	2004-2009	
Any other	Post-doctoral research experience for the period 12/08/09 - 20/09/09 through Erasmus Mundus Cooperation Window Lot India (EMECW 15) Scholarship.	Lund University, Sweden	2009	
<b>Career Profile</b>				

<ol style="list-style-type: none"> <li>1. Joined as an Adhoc Assistant Professor on 28/07/2010, in Deen Dayal Upadhyaya College, Department of Chemistry, Shivaji Marg, Karampura, New Delhi – 110015. (Till 21/05/2012)</li> <li>2. Joined as an Adhoc Assistant Professor on 02/08/2012, in Zakir Husain Delhi College, Department of Chemistry, Jawaharlal Nehru Marg, New Delhi-110002. ( Till 19/07/2015)</li> <li>3. Joined as an Assistant Professor on 20/07/2015, in Zakir Husain Delhi College, Department of Chemistry, Jawaharlal Nehru Marg, New Delhi-110002. (Till date)</li> </ol> <p><b>Teaching Experience: 13 Years</b></p>
<p><b>Administrative Assignments</b></p> <p>Member, Girls association committee, year 2016-2018  Member, Sports Advisory committee, ZHDC, year 2018-2020  Member, Computer Lab committee, ZHDC, year 2020-2022  Convener, Life science society "FUSION", ZHDC, year 2021-2023  Member, IQAC Sub Committee, ZHDC, year 2021-till date  Member, Alumni Association committee, ZHDC, year 2021-till date  Member, Canteen Committee, ZHDC, year 2022-till date  Member, Student Aid Committee, ZHDC, year 2022-till date  Member, Annual Report committee, ZHDC, year 2022  Member, Screening Committee for shortlisting for post of Assistant Professors in Psychology Department, ZHDC, year 2023  Superintendent Practical Examinations to conduct practical examinations in the Chemistry Department from 30/10/19 to 30/06/2020.</p>
<p><b>Areas of Interest / Specialization</b></p>
<p><b>Organic Chemistry</b></p>
<p><b>Subjects Taught</b></p> <p>DSE-Green Chemistry  DSE-4 Polymer Chemistry  SEC- Green Methods in Chemistry  Organic Chemistry IV: Biomolecules  Organic Chemistry V: Spectroscopy  DSE: Organometallics, Bio-inorganic chemistry, Polynuclear hydrocarbons and UV, IR Spectroscopy</p>
<p><b>Journals</b></p> <p>[1] Synthesis, characterization and structures of copper(II) complexes with amide-based ligands: Unusual formation of a linear trimer and a zig-zag chain and their contrast magnetic</p>

behaviour, **Jyoti Singh**, Geeta Hundal, Montserrat Corbella and Rajeev Gupta, *Polyhedron* **26** (2007), 3893-3903. (Impact Factor: 1.946, Online ISSN: 0277-5387)

[2] Studies on Nickel(II) complexes with amide-based ligands: syntheses, structures, electrochemistry and oxidation chemistry, **Jyoti Singh**, Geeta Hundal and Rajeev Gupta, *Eur. J. Inorg. Chem* (2008), 2052-2063. (Impact Factor: 3.12, Online ISSN: 1099-0682)

[3] Mononuclear and Dinuclear Nickel(II) and Copper(II) Complexes with the Pyrrole-Amide Ligand: Core Conversion Studies and Unusual Presence of a Cu<sub>2</sub>-Dimer and a Cu-Monomer in the Same Unit Cell, **Jyoti Singh**, Geeta Hundal and Rajeev Gupta, *Eur. J. Inorg. Chem* (2009), 3259-3265. (Impact Factor: 3.12, Online ISSN: 1099-0682)

[4] Unsymmetrical dizinc complexes as models for the active sites of phosphohydrolases Martin Jarenmark, Edit Csapó, **Jyoti Singh**, Simone Wöckel, Etelka Farkas, Franc Meyer, Matti Haukka and Ebbe Nordlander, *Dalton Transactions* (2010), **39**, 8183-8194. Impact Factor: 3.806, Online ISSN: 1477-9234

[5] Nickel and Copper Complexes of Pyrrolecarboxamide Ligands – Stabilization of M<sup>3+</sup> Species and Isolation of Ni<sup>3+</sup> Complexes, Sushil Kumar, Megha Munjal, **Jyoti Singh**, and Rajeev Gupta, *Eur. J. Inorg. Chem* (2014), 4957-4965. (Impact Factor: 3.12, Online ISSN: 1099-0682)

**e-content (developed in 4 quadrants) per module:**

S. No	Year	Details of e-Content (with no. of quadrant)	Module	Subject	Organization for which it was developed	Level (UG/PG/Other)
1	September 2020	Organic lab (Four quadrant)	S-benzylisothiuronium Salt Formation	Practical Organic Chemistry	PMMMNTT (MHRD)	UG
2	September 2020	Organic lab (Four quadrant)	Acetylation	Practical Organic Chemistry	PMMMNTT (MHRD)	UG
3	September 2020	Organic lab (Four quadrant)	Ester Hydrolysis	Practical Organic Chemistry	PMMMNTT (MHRD)	UG
4	May 2021	Organic lab (Four quadrant)	Chromatography	Practical Organic Chemistry	PMMMNTT (MHRD)	UG
5	May 2021	Organic lab (Four quadrant)	Thin Layer Chromatography	Practical Organic Chemistry	PMMMNTT (MHRD)	UG

6.	April 2022	Organic lab (Four quadrant)	Estimation of Aniline By Bromate- bromide method	Practical Organic Chemistry	PMMMNTT (MHRD)	UG
7.	April 2022	Organic lab (Four quadrant)	Estimation of Aniline by Acetylation method	Practical Organic Chemistry	PMMMNTT (MHRD)	UG
8.	April 2023	Organic lab (Four quadrant)	Qualitative Analysis of Unknown Organic Compound -Alcohols	Practical Organic Chemistry	PMMMNTT (MHRD)	UG
9.	April 2023	Organic lab (Four quadrant)	Qualitative Analysis of Unknown Organic Compound- Esters	Practical Organic Chemistry	PMMMNTT (MHRD)	UG
10	April 2023	Organic lab (Four quadrant)	Qualitative Analysis of Unknown Organic Compound- Aldehydes and Ketones	Practical Organic Chemistry	PMMMNTT (MHRD)	UG

**Conference Organization/ Presentations (in the last five years)**

- Organizing member** for UGC-sponsored National conference on “Innovations in Chemistry Laboratory Teaching” held at Zakir Husain Delhi College, University of Delhi from 08/02/2017-09/02/2017
- Coordinator for “Chemistry Career Symposium” held at Zakir Husain Delhi College, University of Delhi on 26/09/18 sponsored by Royal Society of Chemistry and Zakir Husain Delhi college.
- Coordinator** for online International Webinar on “**Better Living Through Green Chemistry**” by Prof. Ram S Mohan held at Zakir Husain Delhi College, University of Delhi on 15/12/ 2021
- Co-Convenor** for online National Webinar on “**Achieving Excellence in Chemistry in India in 21<sup>st</sup> Century: Challenges and Opportunities**” by Prof. A.K. Bakhshi held at Zakir Husain Delhi College, University of Delhi on 18/01/ 2022
- Organizing committee Member in International Conference on “**Contributions of Acharya Prafulla Chandra Ray as a Chemist and Freedom Fighter**” held at University of Delhi from 02/08/2022-03/08/2022

<b>Awards and Distinctions</b>
<p>[1] Qualified for <b>Junior Research Fellowship</b> and passed the <b>Lectureship Test</b> of the University Grants Commission in the <i>National Eligibility Test (NET)</i> conducted in June 2004.</p> <p>[2] Awarded third <b>prize for the poster presentation</b> at international conference “<b>Modern Trends in Inorganic Chemistry (MTIC-XII)</b>”, held at Department of Chemistry, Indian Institute of Technology- Madras, Chennai (December 6-8, 2007)</p> <p>[3] Recipient of <b>Suri Memorial award from the chemistry department (Award for highest Marks in the college)</b> for First, Second and Third year Examinations of the Bachelors in Chemistry Degree in 2000, 2001 and 2002 at Zakir Husain College of Delhi University, Delhi.</p> <p>[4] Recipient of <b>Merit of Distinction award from the college (Award for highest Marks in the college)</b> for First, Second- and Third-year Examinations of the Bachelors in Chemistry Degree in 2000, 2001 and 2002 at Zakir Husain College of Delhi University, Delhi.</p> <p>[5] Recipient of <b>Meritorious award (Award for highest Marks in the School)</b> for Senior Secondary Examination in 1999 at Sushila Inter College of U.P Board, U.P.</p> <p>[6] Recipient of <b>Meritorious award (Award for highest Marks in the District)</b> for Secondary Examination in 1997 at Sushila Inter College of U.P Board, U.P.</p>
<b>Association With Professional Bodies</b>
NA
<b>Other Activities</b>
<ol style="list-style-type: none"> <li>1. Working Group Member for the revision of the Under-Graduate Course titled Polymer Chemistry Course Code Chemistry DSE in Programme (CBCS) B.SC.(H) CHEMISTRY in the light of UGC's <b>Learning Outcome-Based Curriculum Framework</b> at University of Delhi in year 2019.</li> <li>2. Participated in workshop on developing self-assessment for MOOCS on SWAYAM as <b>Resource Person</b> at CIET, NCERT from 01/04/19 to 05/04/19</li> <li>3. Core Committee Member for the Formulation of the Chemistry Syllabus under UGCF- 2022 (Under-graduate Curriculum Framework 2022) at University of Delhi.</li> <li>4. Participated in online workshop on “Development of Audio-Video Resource in chemistry at Higher secondary Stage” as <b>Resource Person</b> at DESM, NCERT (Online) on 21/02/22 to 25/02/22</li> </ol>