



ZAKIR HUSAIN DELHI COLLEGE
(University of Delhi)

Faculty Details

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

Title	First Name	Last Name	Photograph
Dr	Prerna	Singh	
Designation	Associate Professor		
Address	Department of Chemistry, Zakir Husain Delhi College, J.L.N. Marg, New Delhi-110002		
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Educational Qualification			
Degree	Institution	Year	
Graduation, B.Sc (H) Chemistry	Gargi College, University of Delhi	2005	
Post-Graduation, M.Sc (Inorganic Chemistry)	Hindu College, University of Delhi	2007	
Ph.D in Analytical and Organic Chemistry	Indian Institute of Technology, Roorkee	2011	
Career Profile			
<ol style="list-style-type: none">1. Joined Department of Chemistry, University of Delhi in August, 2011 as an Assistant Professor (Adhoc).2. Joined Department of Chemistry, Zakir Husain Delhi College, University of Delhi in July, 2012 as an Assistant Professor (Adhoc).3. Joined Department of Chemistry, Zakir Husain Delhi College, University of Delhi in July,			

<p>2015 as an Assistant Professor (Permanent).</p> <p>Teaching Experience (Till Date): +13 years</p>
<p>Administrative Assignments</p> <ol style="list-style-type: none"> 1. Member of Counselling Team in Admission Committee, 2015-2017 2. Member of Annual College Convocation Committee, 2015-2016 3. Member of Chemistry Society CHEMUNICATE, 2015-2019 4. Member of NAAC Sub Committee (Document Verification), 2016 5. Member of Girls Association Committee, 2018-2022 6. Member of Student Aid Committee, 2018-2022 7. Member of Physical Science society. 2021-2023 8. Member of Screening Committee for shortlisting of candidates for the post of Assistant Professors in Physics Department, ZHDC, year 2023 9. Member of Sports Advisory Committee, 2022-2024 10. Member of Canteen Committee, 2022-2024 11. Member of Time Table Committee, 2024-till now 12. Member of Chemistry Department Suri Memorial Committee 2020-till now 13. Superintendent Practical Examinations to conduct practical examinations in the Chemistry Department from November 2021-November 2022.
<p>Area of Specialisation</p>
<p>Inorganic Chemistry</p>
<p>Subjects Taught</p> <p>B.Sc (H) Chemistry and B.Sc (Programme)-Inorganic Chemistry (Coordination Chemistry, Organometallics and Bioinorganic Chemistry)</p> <p>B.Sc (H) Chemistry- DSE: Inorganic materials of Industrial Importance.</p>
<p>Research Guidance</p>
<p>NIL</p>
<p>Publications Profile</p> <ol style="list-style-type: none"> 1. Prerna Singh, Ashok K. Singh, Sameena Mehtab " Polymeric membrane and coated graphite electrode based on newly synthesized macrocyclic ligand for trace level determination of nickel ion in fruit juices and wine samples " Journal of Inclusion

2. Prerna Singh, Ashok K. Singh, Shibdas Banerjee, Sameena Mehtab " Development of Electrochemical sensors for nano scale Tb(III) ion determination based on pendant macrocyclic ligands " *Analytica Chimica Acta* , 633 (2009) 109–118.
3. Prerna Singh, Ashok K. Singh " Nano-level monitoring of Yb(III) by fabrication of coated graphite electrode based on newly synthesized hexaazamacrocyclic ligand " *Analytica Chimica Acta* , 643 (2009) 74–82.
4. Prerna Singh, Ashok K. Singh, G. Bhattachargee " Determination of Cobalt ions at nano level based on newly synthesized pendant armed macrocycle by polymeric membrane and coated graphite electrode " *Talanta* , 80 (2009) 685–693.
5. Prerna Singh, Ashok K. Singh, "Determination of Cerium ion by polymeric membrane and coated graphite electrode based on novel pendant armed macrocycle" *Analytica Chimica Acta*, 675 (2010) 170–180.
6. Prerna Singh, Ashok K. Singh, "Electrochemical sensors for determination of Zn²⁺ ions based on pendant armed macrocyclic ligand" *Electrochimica Acta*, 56 (2011) 5386-5395.
7. Prerna Singh, Ashok K. Singh, "Determination of thiocyanate ions at nano level in real samples using coated graphite electrode based on synthesised macrocyclic zinc(II) complex" *Analytical and Bioanalytical Chemistry* 400 (2011) 2261-2269.
8. Prerna Singh, Ashok K. Singh, "Electrochemical Sensor for selective determination of perchlorate ions based on zinc complexes of macrocyclic ligands" *Sensors and Actuators B* 199 (2014) 201-209.

Conference Organization/ Presentations (in the last five years)

1. Organizing member 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.
2. Member of organizing committee in the online workshop cum webinar on "Visual Taking Notes for Teaching, Learning & Innovation, organized by Zakir Husain Delhi College, University of Delhi on 8th Oct'2020.
3. Coordinator for online International Webinar on "Better Living Through Green Chemistry" by Prof. Ram S Mohan held at Zakir Husain Delhi College, University of

<p>Delhi on 15/12/ 2021</p> <ol style="list-style-type: none"> Resource person of a workshop on Laboratory Skills Training, Department of Chemistry, Zakir Husain Delhi College, 6-13th December 2021 Organizing member in an International conference on Advances in Chemical Sciences and Nanocomposites, Jointly organized by Zakir Husain Delhi College and ISAS on 1st and 2nd April, 2022, sponsored by DRDO. Member of Organizing committee in NEP 2020 Orientation and Sensitization Programme under MM-TTP, organized by UGC-MMTTC (GAD-MMTTC), Sri Guru Tegh Bahadur Khalsa College, University of Delhi.
<p>Research Projects (Major Grants/Research Collaboration)</p>
<p>NIL</p>
<p>Awards and Distinctions</p>
<ol style="list-style-type: none"> Awarded Best Oral presentation in International conference on Advances in Chemical Sciences and Nanocomposites, Jointly organized by Zakir Husain Delhi College and ISAS on 1st and 2nd April, 2022, sponsored by DRDO. Qualified CSIR-NET in 2007 Qualified Graduate Aptitude Test in Engineering (GATE) in 2007
<p>Association With Professional Bodies</p>
<p>➤ Life Member, Indian Society of Analytical Scientists</p>
<p>Other Activities</p>
<ol style="list-style-type: none"> Author of a Chapter "Chromatographic Techniques" in a book titled "Analytical Methods in Chemical Analysis", published by De Gruyter, Berlin 2023. College Coordinator in conducting a Concept Test in Chemistry (CONTECH) 2022 for undergraduate students conducted by Association of Chemistry Teachers (ACT), Mumbai Participated as a question contributor in National Campaign of "Designing quality questions (MCQs) conducted by Association of Chemistry Teachers (ACT), Mumbai, 2022 Resource person in the "Workshop for Development of Self-Assessment items for School MOOC on SWAYAM", CIET, NCERT 26th-28th August 2019.