




ZAKIR HUSAIN DELHI COLLEGE
(University of Delhi)

Faculty Details

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

Dr.	Jyotsna	Ratan	Photograph  <small>CS Scanned with CamScanner</small>
Designation	Associate Professor		
Address	26, First Floor, Neelam Vihar, Sector-14, Kaushambi, Ghaziabad- 201010		
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Web Page			
Educational Qualification			
Degree	Institution	Year	
B.Sc.	Agra University, Agra	1988	
M.Sc.	Agra University, Agra	1991	
Ph.D.	DR. B. R. Ambedkar University, Agra	1998	
Any Other			
B.Ed.	Agra University , Agra	1993	
Career Profile			
<ol style="list-style-type: none">1. Joined as an Ad-hoc Lecturer on 22/07/2004 to 04/04/2005 & 16/07/2005 to 05/03/2006 in Chemistry Department, Hindu College, University of Delhi2. Joined as an Ad-hoc Assistant Professor on 17/10/2006 to 21/11/2006 in Chemistry Department , Zakir Husain Delhi College, University of Delhi3. Joined as an Assistant Professor on 22/11/2006 on permanent basis in Chemistry Department, Zakir Husain Delhi College University of Delhi and currently working as an Associate Professor since 2018 to till date.			
Administrative Assignments			

Member, Nature & Environmental Committee, year 2009-2013 , 2020-2023 , 2023- till date

Member , Admission Committee , year 2014-2015

Member, Library Committee , year 2014-2015

Member, Screening Committee for shortlisting the applications for post of Assistant Professor in department of Electronics and Hindi , year 2015

Superintendent Practical Examination to conduct Chemistry Practical Examinations , year 2015-2016

Member, Academic Supervisory Committee , year 2016-2018 & 2022 to till date

Member , Azadi Ka Amrit Mahotsav , year 2020-2023

Member , Annual Day Committee , year 2022-2023

Member, Screening Committee for shortlisting the applications for the post of Assistant Professor in Physics Department , Year 2022

Member , Screening Committee for shortlisting the applications of Assistant Professor in Commerce Department , year 2023

Areas of Interest / Specialization - Inorganic Chemistry

Subjects Taught - Chemistry

Inorganic Chemistry-II (CHHT-305)

Inorganic Chemistry-III (CHHT-408)

Inorganic Chemistry-II ; s- and p- Block Elements

DSE- Inorganic Chemistry-III: Coordination Chemistry

DSC-7 : Chemistry of d- and f- block Elements & quantitative Inorganic Analysis

Research Guidance

NA

Publications Profile

1. Biodegradation of Natural Rubber by Fungai and Bacteria

Abhinav Joseph, Pawan Gupta, Gahin De, Manohar Lal, Mukesh Kr. Meena, Laliteshwar Pratap Singh and Jyotsna Ratan, Nature Environment and Pollution Technology, Vol.21, No.3, p.p. 1039-1048, 2022(Impact Factor : 0.191, p-ISSN:0972-6268, e-ISSN: 2395-3454)

2. Photocatalytic Properties of Biologically Synthesized Uncoated and Calcium Coated ZnO Nanoparticles Using Cucumber Juice

Darshan Singh, Anuradha, Divya Mathur, Amar Kumar, Surendra Kumar, Balaram Pani, Rajni Kanojia ,and Jyotsna Ratan, RASAYAN J. Chem. , Special Issue, 95-102, 2022 , (Impact Factor ; 0.333 , ISSN:0974-1496, e-ISSN: 0976-0083)

3 .Studies on The Synthesis and Characterisation of Molybdenum(V) Organophosphonium Complexes

Jyotsna Ratan and Neeraj Saxena , International Journal of Recent Scientific Research, Vol.13, Issue, 11(B), pp. 2643-2645, November 2022(Impact Factor: 7.383, ISSN:0976-3031)

4.Synthesis, Spectral Characterization on Few Transition Metal(II) Complexes Containing Novel Schiff Base Ligand Condensed from 3-Hydroxythiophene-2-carbaldehyde and Naphthalene-1,2-diamine

Namita Gandhi , Jyotsna Ratan, Sajid Ali , Journal of Pharmaceutical Negative Results, Vol.14, Issue:3,p.p.- 1107-1112 , 2023 , (Impact Factor: 0.234, ISSN:0976-9234, e-ISSN: 2229-7723)

5. Chemical Reactions and Catalysis for Creating a Sustainable Future

Anil Vishwambhar Shinde, Jyotsna Ratan, Poonam Pipil , K. Praveen Kumar, European Chemical Bulletin , Vol.12 , Issue 5 , p.p.5849-5854 , 2023 (Impact Factor: 3.71, ISSN: 2063-5346)

Conference Organization/ Presentations (in the last five years)

1.Organizing member of International Conference on “ Advances in Chemical Sciences and Nanocomposites” jointly organized by Zakir Husain Delhi College, University of Delhi & ISAS ON 1st & 2nd April, 2022

2.Coordinator for a workshop on Laboratory Skills Training held at Zakir Husain Delhi College from 6-13 December 2021

3.Presented a paper in International Conference on “Advances in Chemical Sciences and Nanocomposites” on the topic- Interpretation of Molecular Interactions between the components of Binary Systems , year- 2022

4.Presented a paper in International Science Conference on “Sustainable Development Through Science and Technology” organized by Maulana Azad National Urdu University, Hyderabad (27-28 February 2023) on the topic- Interpretation of Thermodynamic interactions of Coconut Oil in polar organic solvents”.

5. Presented a paper in International Conference on “Smart Materials- Perspectives and Prospectives” (SMPP-2023) organized by Department of Chemistry, University of Delhi & Indian Science Congress Association, Delhi on the topic- Role of Photocatalysis to protect the environment : Present and Future , On 28th March 2023.

6. Presented a paper in One Day International Multidisciplinary Online Seminar on “ Role of Yoga and Exercises in Stress Management in the Context of Modern Life Style” organized by Pt. J.L.N. Government P.G. College, Faridabad (M.D. University Rohtak) on the topic- Yoga: The Practices of Healing to Relieve Anxiety and Depression . on 29th August 2023.

Research Projects (Major Grants/Research Collaboration)

NA

Awards and Distinctions

NA

Association With Professional Bodies

NA

Other Activities

1. Participated in two days online workshop from July, 12-13, 2021 ,organized by Rajdhani College, University of Delhi

2. Participated in online International Webinar on “Better Living Through Green Chemistry” organized by Chemistry Department, Zakir Husain Delhi College on 15th December 2021

3. Participated in One Day Online National Workshop on “ICT Tools For Chemistry Teachers” organized by Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College , University of Delhi , on 22nd February 2021.

4. Resource Person in One Week In-house Workshop on LABORATORY SKILLS TRAINING from 6-13 December ,2021 organized by Chemistry Department , Zakir Husain Delhi College, University of Delhi

5. Participated in International Online Symposium on Analytical Science Conference on 4th July 2022 , organized by SG LAB FORUM SINGAPORE

6. Participated online in Technical Session of ANALYTICAL PYROLYSIS SYMPOSIUM on 27/01/2022-28/01/2022 organized by Frontier Laboratories(Japan) jointly with IIT, Madras.

