ZAKIR HUSAIN DELHI COLLEGE
(University of Delhi)

Faculty Details

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

Dr.	**Jyoti**	**Tyagi**	**Photograph**
Designation	**Assistant Professor**		
Address	**A-10 Panchsheel Colony, Lal Kuan, Ghaziabad, UP-201002**		
Phone Number	**Office**		
	Residence		
	Mobile		
Email Id	**jyoti.tyagi@zh.du.ac.in**		
Web Page			

Educational Qualification

Degree	**Institution**	**Year**
Ph.D.	University of Delhi	2014
M.Sc. Chemistry (Physical)	University of Delhi	2007-09
B.Sc. Chemistry (H)	University of Delhi	2004-07

NET qualified with JRF (CSIR) in the year 2008 in Chemical Sciences

Career Profile

Administrative Assignments

Superintendent of Practical Examinations of Chemistry Department for the academic session 2023-2024 for all semesters.

Nodal Officer for U.G. Admission under sports category for the academic year 2022-23.

Member of various committees at college level, viz., Time Table Committee (2018-22), Student Union Advisory Board (2022-24), Sports Advisory Board (2022-24), Chemistry Society (2018-21), and Girls association (2024-25).

Areas of Interest / Specialization

Physical Chemistry & Computational Chemistry

Subjects Taught

Physical chemistry to B.Sc. Chemistry (H), B.Sc. (prog.) - LS/PS

Research Guidance

None

Publications Profile

1. Jyoti Tyagi, Lekha Sharma and Rita Kakkar (2019) Graphene and Doped Graphene: A Comparative DFT Study, *Advanced Materials Letters*, **10(7)**, 484-490. DOI: http://dx.doi.org/10.5185/amlett.2019.2168

2. P. Ranjith, S. Sreevalsa, Jyoti Tyagi, et al., (2020) Elucidating the structure and optimising the photoluminescence properties of Sr2Al3O6F: Eu3+ oxyfluorides for cool white-LEDs, *Journal of Alloys and Compounds*, **826**, 154015. https://doi.org/10.1016/j.jallcom.2020.154015.

3. Tyagi, J., Ahmad, S. & Malik, M. Nitrogenous fertilizers: impact on environment sustainability, mitigation strategies, and challenges. *Int. J. Environ. Sci. Technol.* **19**, 11649–11672 (2022). https://doi.org/10.1007/s13762-022-04027-9

4. Tyagi, J. (2021). Advances in Alternative Sources of Energy. In Energy (eds P. Singh, S. Singh, G. Kumar and P. Baweja). https://doi.org/10.1002/9781119741503.ch2

5. Jyoti Tyagi, J. & Ahmad, S. (2022). A Road to Future Sensors: Polymeric Biomaterials. In Polymeric Biomaterials Fabrication, Properties and Applications (eds P. Agarwal, D. B. Tripathy, A. Gupta and B. K. Kuanr) Taylor & Francis. http://doi.org/10.1201/9781003240884-5

6. Jyoti Tyagi, Sanjeev Kumar Mishra, Shahzad Ahmad (2024) Transparent ceramics: The material of next generation In book: Metal Oxides for Next-generation Optoelectronic, Photonic, and Photovoltaic Applications; Elsevier; ISBN: 9780323991438; eBook ISBN: 9780323993678; Pages 45-75. http://dx.doi.org/10.1016/B978-0-323-99143-8.00003-1

7. J. Tyagi, S. K. Mishra and R. Parashar (2025) A Comparative Theoretical Investigation of Magnesium Insertion into the C-X Bond in Vinyl Halides (X = F, Cl, And Br), *RASĀYAN J. Chem.*, **18(1)**, 108-115. http://doi.org/10.31788/RJC.2025.1819063

Conference Organization/ Presentations (in the last five years)

1. Organizing Co-Ordinator in the International Online Workshop-cum-Webinar entitled **"VISUAL NOTE-TAKING"** organized by Zakir Husain Delhi College in collaboration with Internal Quality Assurance Cell held on 08/10/2020.

2. Organizing Coordinator in the National Webinar on "Achieving Excellence in Chemistry in India in 21st Century: Challenges and Opportunities" organized by Department of Chemistry, Zakir Husain Delhi College, DU under the aegis of IQAC held on 18/01/2022.

3. Paper presentation on "A Road to Energy Sustainability: Alternative Sources of Energy" in International e-Conference "Recent Advancements in Chemical Sciences: Health, Environment and Society" held on 8-9th April 2022 organized by Department of Chemistry, Deshbandhu College, University of Delhi.

4. Member of the Organising Committee in NEP 2020 Orientation & Sensitization Programme under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) organized by UGC-MMTTC (GAD-MMTTC), Sri Guru Tegh Bahadur Khalsa College, University of Delhi from 19th to 31st January 2024.

5. Paper presentation on "Transparent Ceramics: The Material of Next Generation" in 3rd Indian Analytical Congress (IAC-2024)" an International Conference from 05/06/2024 to 07/06/2024 organized by Indian Society of Anaytical Scientists-Dehi Chapter, and CSIR-Indian nstitute of Petroleum, Dehradun, Uttarakhand.

6. Member of the Organising Committee in Two-Week National Online Refresher course in Chemistry: Future of Chemistry Education organized by UGC-MMTTC/GAD-MMTTC, Sri Guru Tegh Bahadur Khalsa College, University of Delhi from 21st September to 05th October 2024.

Research Projects (Major Grants/Research Collaboration)

None

Awards and Distinctions

Association With Professional Bodies

Lifetime Member of Indian Society of Analytical Scientists (ISAS) Delhi Chapter (LMT-2010/15)

Other Activities