


FACULTY PROFILE

Title (Ms/Mr/Dr/Prof)	Dr.	First Name	UPASANA	Last Name	ISSAR	Photograph
Designation	ASSISTANT PROFESSOR					
Department	CHEMISTRY					
Address (Official)	Kalindi College, University of Delhi, Block 49, East Patel Nagar, Patel Nagar, New Delhi, Delhi-110008					
Phone No.	-					
Email	upasana@kalindi.du.ac.in , upasana139@gmail.com					
Educational Qualification						
Subject	Institution	Year	Details			
PhD in Chemistry	University of Delhi	2014	<ul style="list-style-type: none"> With Prof. Rita Kakkar, Department of Chemistry, University of Delhi Thesis Title “<i>In Silico</i> Studies of DNA Interactions with Minor Groove Binders Based on the Hoechst Family” 			
M. Sc. Chemistry	Department of Chemistry, University of Delhi (enrolled from Hansraj College)	2009	<ul style="list-style-type: none"> Physical Chemistry Specialization 			
B. Sc. (H) Chemistry	Daulat Ram College, University of Delhi	2007	<ul style="list-style-type: none"> Honors degree in Chemistry with other subjects such as Physics, Mathematics, Environmental Chemistry and English 			
<ul style="list-style-type: none"> Successfully completed certification course in Python Programming – A Practical Approach conducted by E & ICT Academy, Indian Institute of Technology (IIT), Kanpur in August 2021. 						
Career Profile						
Organisation/Institution	Designation	Duration		Role		
Kalindi College, University of Delhi	Assistant Professor	8 th Jan 2020 – 7 th Jan 2024 (adhoc) 8 th Jan 2024 onwards (Permanent)		To teach chemistry to students of B.Sc. (H) chemistry, B.Sc. (P) Life Sciences		

Kirori Mal College, University of Delhi	Assistant Professor (ad hoc)	20 th July 2015 – 7 th Jan 2020	To teach chemistry to students of B.Sc. (H) chemistry, B.Sc. (P) Life Sciences, Physical Sciences, Analytical Chemistry
St. Stephen's College, University of Delhi	Assistant Professor (ad hoc)	<ul style="list-style-type: none"> • 13th Feb 2013 – 22nd May 2013 • 1st Aug 2013 – 19th July 2015 	To teach chemistry to students of B.Sc. (H) chemistry, B.Sc. (P) Physical Sciences
Daulat Ram College, University of Delhi	Assistant Professor (Guest)	January 2012 – February 2013	Worked as a Guest Faculty in the Department of Chemistry
Miranda House, University of Delhi	Assistant Professor (Guest)	October 2011- February 2012	Worked as a Guest Faculty in the Department of Chemistry to teach cluster course students from annual mode

Research Interests/Specialization

- Physical Chemistry
- Computational Chemistry
- Molecular Modelling and Drug Designing,
- Quantum chemistry and spectroscopy
- Nanomaterials

Administrative Assignments / Contribution to corporate life

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- Active participation as Convenor/Examiner in question paper setting in Delhi University Examinations.

Responsibilities held at Kalindi College

- Convenor, Criteria 3, AQAR 2023-onwards
- Convenor, e-content development committee, 2024
- Member Prawah magazine, 2024-25
- Member of digitalization, automation computational support of AQAR of IQAC 2022- onwards
- Member Timetable committee, April 2023- till date
- Member- Research Project fund allocation committee, 2023- 24
- Member- e-content development committee, July 2021 – March 2024
- Member- Lab development fund committee, July 2021 – till date
- Member of Waste management & Waste audit in green audit committee, July 2021- March 2023
- Member- Women Development Cell, August 2022- March 2023
- Member- AQAR, Criteria-III

- Member- Brochure Committee, Lehren'2023
- Member Criteria VII, SSR in NAAC 2022
- Staff advisor, Chemical Society, 2021-2023, 2024

Responsibilities held at Kirori Mal College

Contribution as member in committees

- Standing Committee Admissions, Kirori Mal College, 2016
- Self-Study Report (SSR) drafting committee in NAAC 2016, Kirori Mal College
- Departmental & College Committees for NAAC, 2016.
- B.Sc. (P) Physical Sciences and Analytical Chemistry Society, 2017-2019
- Departmental Seminar Committee, Kirori Mal College, 2016-2019
- Laboratory Management Committee, Department of Chemistry, Kirori Mal College, 2016-19
- Departmental Discipline Committee, Kirori Mal College, 2016-2019
- Student-Faculty Committee, Department of Chemistry, KMC, 2018-19
- Library Committee, department of chemistry, KMC, 2018-19

Contribution as organizer

- **Organizing Member** in organizing **first National Conference on Emerging Trends and Future Challenges in Chemical Sciences, ETFC-2016** held at Conference Centre DU, organized by department of chemistry, Kirori Mal College, University of Delhi on 3rd and 4th February 2016
- **Organizing Member** in organizing **second National Conference on Emerging Trends and Future Challenges in Chemical Sciences, ETFC-2020** held at Conference Centre DU, organized by department of chemistry, Kirori Mal College, University of Delhi 10th and 11th January 2020.
- **Annual Day Prize Distribution committee**, Kirori Mal College, 2017, 2018 & 2019.
- **Organizer in a talk by Australian Cricketer Adam Gilchrist** on "Life of a Sports Man" organized by Kirori Mal College, held on 19th June, 2017 in the conference center, University of Delhi.
- **Additional responsibilities**
- Helped College during admissions in 2017, 2018 and 2019 (in standing committee).
- Helped in compilation and uploading of **AQAR 2016-17** and **AQAR 2017-18**
- Helped in Drafting report for **NIRF**, Kirori Mal College, 2017, 2018.
- Helped in collation of college data for **INDIA TODAY-MDRA** ranking 2019.

Teaching Experiences (Subject/Courses taught)

Theory Papers

- Chemical Thermodynamics & Solid state to B.Sc. (H) Chemistry I year
- Phase Equilibrium, Binary Solutions & Conductance & electrochemistry to B.Sc. (H) Chemistry II year
- States of matter & chemical kinetics to B.Sc. (P) II-year students.
- IT Skills for Chemists SEC paper to B.Sc. (H) and B.Sc. (P) students.
- Quantum Chemistry, Molecular Spectroscopy, Application of Computers in Chemistry & Environmental Chemistry to B.Sc. (H) Chemistry III year

- Atomic structure & chemical bonding to B.Sc. (H) Physics I year
- Chemical Thermodynamics & Ionic Equilibrium to B.Sc. Physical Sciences with Computer Science III year Concurrent Paper.
- Chemical Thermodynamics, Ionic Equilibrium, Phase Equilibrium, Binary Solutions, Quantum Chemistry & Solid state to B.Sc. Physical Sciences/Life Sciences
- Quantitative Methods of Analysis (Volumetric Analysis) to B.Sc. Appl. Physical Sciences- Analytical Chemistry II year

Research Guidance

- Guided five students of B.Sc. (H) Chemistry at Kalindi College as a part of in-house college project entitled “**In-Silico Anti-Viral Study of Flavonoid Derivatives and Green Synthesis of Potential Binder**” in the year 2021-22.
- Guided five students of B.Sc. (H) Chemistry at Kalindi College as a part of in-house college project entitled “**Experimental and theoretical studies on the UV protection by sunscreens**” in the year 2023-24.

Publication (Peer Reviewed/Indexed Journals) & Chapter in Books

Year of Publication	Title	Journal (Name of the journal. Vol Issue ISSN)/ Publishing House	Co-Authors
2024	Nanomaterials as fluorescent sensor and colorimetric sensor for toxic Hg(II) ion: A review.	<i>Ionics</i> (2024). https://doi.org/10.1007/s11581-024-05757-1	Arora, R., Chahal, V., Issar, U. <i>et al.</i>
2024	Recent advances in the antioxidant activity of metal-curcumin complexes: a combined computational and experimental review.	<i>Free Radical Research</i> , 58(1), 11–26. https://doi.org/10.1080/10715762.2023.2298857	Mittal, A., Nagpal, M., Vashistha, V. K., Arora, R., & Issar, U.
2023	In silico studies of the interaction of the minor groove binder Hoechst 33258 with B-DNA	<i>Journal of Biomolecular Structure & Dynamics</i> , 42(9), 4537–4552. Impact factor: 4.4 <i>wos-core_SCIE listed</i> DOI: 10.1080/07391102.2023.2220807	Upasana Issar , Richa Arora, Rita Kakkar
2022	Chapter in book Biomedical Application of Chitosan-Based Nanocomposites as Antifungal Agents.	In: Gulati, S. (eds) <i>Chitosan-Based Nanocomposite Materials</i> . pp 251–271, Springer, Singapore. Print ISBN 978-981-19-5337-8 Online ISBN 978-981-19-5338-5 https://doi.org/10.1007/978-981-19-5338-5_11	Richa Arora & Upasana Issar

2022	Chapter in book Antiviral Potency of Chitosan, Its Derivatives, and Nanocomposites.	In: Gulati, S. (eds) <i>Chitosan-Based Nanocomposite Materials</i> . pp 273–289, Springer, Singapore. Print ISBN 978-981-19-5337-8 Online ISBN 978-981-19-5338-5 https://doi.org/10.1007/978-981-19-5338-5_12	Upasana Issar & Richa Arora
2022	Chapter in book “Theoretical Study on Catalytic Capture and Fixation of Carbon Dioxide by Metal–Organic Frameworks (MOFs).	In: Gulati, S. (eds) <i>Metal-Organic Frameworks (MOFs) as Catalysts</i> . Springer, Singapore. Pp 237–264 https://doi.org/10.1007/978-981-16-7959-9_9 Print ISBN: 978-981-16-7958-2 Online ISBN: 978-981-16-7959-9	Upasana Issar, Richa Arora
2022	Chapter in book Computational Approach Toward Identification and Catalytic Degradation of Chemical Warfare Agents Using MOFs.	In: Gulati, S. (eds) <i>Metal-Organic Frameworks (MOFs) as Catalysts</i> . Springer, Singapore. Pp 431–451 https://doi.org/10.1007/978-981-16-7959-9_17 Print ISBN: 978-981-16-7958-2 Online ISBN: 978-981-16-7959-9	Richa Arora, Upasana Issar
2021	Chapter in book Functionalized Carbon trnNanomaterials (FCNMs): A Green and Sustainable Vision.	In: Mallakpour, S and Hussain, C. M (eds) <i>Environmental Applications of Carbon Nanomaterials-Based Devices</i> . 395–422. Portico. Wiley https://doi.org/10.1002/9783527830978.ch17 Print ISBN:9783527348657 Online ISBN:9783527830978	Upasana Issar, Richa Arora
2019	Combined pharmacophore-guided 3D-QSAR, molecular docking, and virtual screening on bis-benzimidazoles and ter-benzimidazoles as DNA–topoisomerase I poisons	<i>Structural Chemistry</i> , vol. 30, Pg: 1185–1201, ISSN: 1572- 9001 Impact factor: 1.887 wos-core _SCIE listed	Upasana Issar, Richa Arora, Tripti Kumari, Rita Kakkar
2018	Identification of novel urease inhibitors: pharmacophore modeling, virtual screening and molecular docking studies	<i>Journal of Biomolecular Structure and Dynamics</i> ,vol. 36 Pg. 1-15 ISSN: 1538-0254 Impact factor: 4.4 wos-core _SCIE listed	Richa Arora, Upasana Issar, Rita Kakkar
2018	Theoretical investigation of organotin (IV) complexes of substituted benzohydroxamic acids.	<i>Computational & Theoretical Chemistry</i> Volume: 1138 Page No.: 57-65 ISSN: 2210- 271X Impact factor: 2.292 wos-core _SCIE listed	Richa Arora, Upasana Issar & Rita Kakkar
2018	In Silico study of the active site of Helicobacter pylori urease and its inhibition by hydroxamic acids.	<i>Journal of Molecular Graphics & Modelling</i> Volume: 83 Page No.: 64-73 ISSN: 1093- 3263 Impact factor: 2.942 wos-core _SCIE listed	Richa Arora, Upasana Issar & Rita Kakkar
2017	Conformational properties	<i>Computational & Theoretical</i>	Upasana

	of DNA minor groove binder Hoechst 33258 in gas phase and in aqueous solution.	Chemistry Volume: 1113 Page No.: 32-41 ISSN: 2210- 271X Impact factor: 2.292 wos-core _SCIE listed	Issar , Tripti Kumari, Richa Arora & Rita Kakkar
2017	Theoretical Study of the Molecular Structure and Intramolecular Proton Transfer in Benzohydroxamic Acid.	Computational & Theoretical Chemistry Volume: 1105 Page No.: 18-26 ISSN: 2210- 271X Impact factor: 2.292 wos-core _SCIE listed	Richa Arora, Upasana Issar & Rita Kakkar
2015	Assessment of Molecular Binding of Hoechst 33258 Analogues into DNA Using Docking and MM/GBSA approach.	Journal of Computational Science Volume: 10 Page No.: 166–177 ISSN: 1877- 7503 Impact factor: 3.817 wos-core _SCIE listed	Upasana Issar , Tripti Kumari & Rita Kakkar
2014	Docking modes of BB-3497 into the PDF active site – a comparison of the pure MM and QM/MM based docking strategies.	Current Computer-Aided Drug Design Volume: 10 Page No.: 315-326 ISSN: 1875- 6697 Impact factor: 1.639 wos-core _SCIE listed	Tripti Kumari, Upasana Issar & Rita Kakkar
2013	Structures and Stabilities of Alkaline Earth Metal Oxide Nanoclusters: A DFT Study	Journal of Theoretical Chemistry Volume: 2013 Page No.: 14 pages ISSN: 2314- 6184	Prinka Batra, Ritu Gaba, Upasana Issar & Rita Kakkar
2013	DNA Minor Groove Binder Hoechst 33258 and its Analogues: A Review	International Review of Biophysical Chemistry (IREBIC) Volume: 4 Page No.: 49-66 ISSN: 2038- 0321	Upasana Issar & Rita Kakkar

Refresher Course/ Faculty development Programme

Refresher Course/ Faculty Induction Programme

- Completed a **4-Week Faculty Induction/Orientation Programme** for “Faculty in Universities/Colleges/Institutes of Higher Education” organized by TLC Ramanujan College under the Ministry of Education sponsored Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT) scheme from **22 January – 20 February, 2024** and obtained Grade A+.
- Completed a **One-month Faculty Induction Programme** organized by TLC Ramanujan College in collaboration with MIT SCHOOL OF EDUCATION & RESEARCH MIT ART, DESIGN & TECHNOLOGY UNIVERSITY, PUNE MAHARASHTRA under the Ministry of Education sponsored Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT) scheme from **20 September – 19 October, 2022** and obtained Grade A.
- Successfully completed online **Two – Week Faculty Development Programme (equivalent to Refresher Course)** on “Chemistry – The Catalyst for Change” from **14**

- **28 July, 2021** and obtained **Grade A+** organized by Teaching Learning Centre, Ramanujan College University of Delhi in collaboration with Department of Chemistry, Miranda House University of Delhi under the aegis of Ministry Of Education, Pandit Madan Mohan Malaviya National Mission On Teachers And Teaching.
- Successfully Completed a **four-month Online Refresher Course in Chemistry under Annual Refresher Programme in Teaching (ARPIT-2019)** with **91.01%** marks, organized by SWAYAM, GOI from **1st September 2019 to 31st December 2019**.

Faculty Development Programme

- Successfully completed One-Week Online National Faculty Development Program “**Basic IT tools, Advanced Spreadsheet Tools and Statistical Software Package with SPSS**” jointly organized by **University of Delhi and Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT) of Ministry of Education** from **27th Oct 2022 – 03rd Nov 2022** and obtained A grade.
- Successfully completed **one week faculty development programme** on “**NEP 2020: New Trends in Higher Education**” Organized by Teaching Learning Centre Ramanujan College, University of Delhi in Collaboration with Ram Lal Anand College, University of Delhi under the Ministry of Education sponsored Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT) scheme held from **29th Aug – 4th Sept 2022**.
- Successfully completed **one week online faculty development program** entitled “**Emerging Trends in Applied Chemistry: A Step towards Sustainable Development, ETAC: SSD-2022** “ organized by Department of Chemistry, SGT University, Gurugram, from **30th May – 4th June, 2022**.
- Completed **One Week Online Faculty Development Programme** on “**Multimedia enriched e-Content Development**” **OFDP 1**” organized by Guru Angad Dev Teaching Learning Centre (GAD-TLC), SGTB Khalsa College, a center of MHRD under PMMMNTT from **21st May- 26th May 2020**.
- Successfully Completed the **National One- Week Online Faculty Training Program on “Pedagogical Training for Effective Online Teaching and Learning”** organized by Deen Dayal Upadhyaya College, University of Delhi and K.T.H.M. College, Nashik held from **3rd Aug to 10th Aug 2020**.
- Successfully Completed **Online Faculty Development Programme** on “**Innovation In Scientific Research Methods**” Organized by Kirori Mal College under the aegis of DBT star college scheme 2019-2022 from **14th October to 18th October 2020**.

Creation of ICT Mediated Teaching Learning Pedagogy and Content

- **Contribution towards development of e-content/MOOCs in 4- quadrants**

S.No	Details of E-contents/MOOCs in 4-quadrants	Quadrants developed	No. of Modules	Course	Sponsoring agency	Year	Level (UG/PG/Other)
1.	Contributed in the development of Teacher's e-Kit (e-content in Four Quadrants Format) Module Title: <i>Buffers & its Applications</i>	Four	01	Chemistry (Theory)	GAD-TLC of MHRD under the PMMMNMTT scheme	2020	UG Level as perCBCS
2.	Contributed in the development of Teacher's e-Kit (e-content in Four Quadrants Format) Module Title: <i>Phase diagram for one component system</i>	Four	01	Chemistry (Theory)	GAD-TLC of MHRD under the PMMMNMTT scheme	2020	UG Level as perCBCS

- Contributed a lesson plan for undergraduate students on the topic “**Electrochemistry: Use of Electrolysis to Reduce Global Carbon Emissions**” published on TROP ICSU (Trans-disciplinary Research Oriented Pedagogy for Improving Climate Studies and Understanding) website **in 2020**. TROP ICSU Project, a global climate change education project is supported by the International Science Council (ISC).

Weblink: <https://tropicsu.org/lesson-plan-electrochemistry/>

- Contributed a lesson plan on the topic “**Phase Diagrams and Phase Equilibria**” published on TROP ICSU (Trans-disciplinary Research Oriented Pedagogy for Improving Climate Studies and Understanding) website in **January 2019**. TROP ICSU Project, a global climate change education project is supported by the International Science Council (ISC).

Weblink: <https://tropicsu.org/lesson-plan-phase-diagrams/>

Seminar/Workshop/Conferences Presentation/Organization

Presented research work

Paper presented outside India

- Participated and presented a short lecture and poster on the paper entitled “In Silico Studies of Interaction of Hoechst 33258 within Minor Groove of B-DNA” at **Albany 2019: The 20th Conversation**, held at **State University of New York, Albany, USA** from **June 11-15, 2019**.
- Gave oral presentation on the paper entitled “Pharmacophore Modelling, 3D-QSAR, Molecular Docking and Pharmacokinetic Studies on Bis-Benzimidazoles and Ter-Benzimidazoles as Topoisomerase I Poisons and Anti-Tumor Agents in the **International Conference on Pure and Applied Chemistry (ICPAC-2018)** held in **Mauritius** from **2-6 July 2018**, organized by **University of Mauritius**.

3. Presented the poster on the paper entitled “In silico Study of the Active Site of Helicobacter pylori Urease and its Inhibition by Hydroxamic Acids” in the **International Conference on Pure and Applied Chemistry (ICPAC-2018) held in Mauritius from 2-6 July 2018, organized by University of Mauritius.**

Paper presented in India

1. Presented an oral paper titled “*In Silico Studies on the Role of Flavonoid Derivatives as Anti-Viral Agents Against SARS-CoV- 2*” in the 1st International Conference on “**Recent Trends in Chemical Sciences & Sustainable Energy**” RTCSSE- 2023 organized by **Department of Applied Sciences, National Institute of Technology Delhi & Department of Chemistry, Swami Shraddhanand College, University of Delhi** during **24/03/2023 – 25/03/2023** held at **National Institute of Technology, Delhi**
2. Participated and Won the **Best Oral Paper Presentation** award at National Conference on Relationship between Chemical Sciences and Society RCSS-2020 16th – 17th January 2020, Shivaji College, University of Delhi.
3. Presented paper on the theme “Frontier areas of research” in the **Young Scientist’s Conference, as a part of “India International Science Festival-2019”** held at Biswa Bangla Convention center, Kolkata, during November 5-8, 2019
4. Presented research work in **National Conference on “Emerging Trends and Advances in Chemical Sciences”** organized by St. Stephen’s College, University of Delhi from 25-26 September 2018.

Resource Person/Invited Speaker/Organiser

1. **Organizing member** in **International Conference on the “Contributions of Acharya Prafulla Chandra Ray as a Chemist and Freedom Fighter”**, organized by Indraprastha Vigyan Bharati in association with the Department of Chemistry, University of Delhi with support from Ministry of Culture, Government of India, New Delhi **held from 2nd – 3rd August 2022.**
2. Invited as **resource person and delivered lectures** on “*Determine the effect of heat on sugar solution and perform the thread and cold-water test*” on **3rd and 17th October 2021**, in the industry-oriented online Add-on Course on “**FOOD SCIENCE & TECHNOLOGY: FARM TO FORK**” offered by the *Department of Chemistry, Sri Venkateswara College, University of Delhi, India* held from **14/08/2021 to 9/11/2021** on MS teams.
3. **Resource person** in the workshop on **Electronic Structure, Atomistic and Statistical Modeling in Chemistry, Materials and Life Sciences** organized by **Schrödinger Materials and Royal Society of Chemistry** in the University of Delhi from **8th – 10th October’2014.**
4. Conducted a module on “**Analysis of sodium and potassium ions by flame photometer**” as a **Resource Person** in the **In-House Skill Development Certificate Course 2015-16** at **Daulat Ram College, University of Delhi.**

Conferences/Workshops Attended

1. Participated in Two-Day Hands-On Workshop on “**Introduction to Python Programming**” organized by Department of Chemistry, University of Delhi on **1st and 2nd July 2022**.
2. Participated in “**IUPAC 2019: Symposium on Empowering Women in Chemistry: A Global Networking Event**” held on 12 February 2019 at Miranda House, University of Delhi.
3. Attended “**National Workshop on Computational Chemistry and Molecular Modelling**” organized by Guru Angad Dev Teaching Learning Center (GAD-TLC) of MHRD on 23rd March 2018.
4. Attended “**ACS on Campus**” event organized by University of Delhi on 5th February 2018 to attain insights on latest tools developed by ACS which help in improving the quality of research articles.
5. Participated in National Conference on **Emerging Trends and Future Challenges in Chemical Sciences (ETFC-2016)** held on 3-4 February 2016 at Conference Centre DU, organized by Kirori Mal College, University of Delhi.
6. Presented a **Keynote e-presentation** in “**Virtual Conference on Computational Chemistry, VCCC-2014**” 10rganized by **University of Mauritius** from 1st -31st August 2014 on the topic “Assessment of Molecular Binding of Hoechst 33258 Analogues into DNA using Docking and MM/GBSA Approach”.
7. Attended **Recent Advances in Computer Aided Drug Design** workshop organized by Schrödinger at IISc, Bangalore in September’ 2013.
8. Attended the five day workshop on **GAUSSIAN 09: Theory and Practice** held in New Delhi between 17th December – 21st December’ 2013.
9. Attended the workshop on “**Recent trends in Green Chemistry**” organized ny Department of Chemistry, **Daulat Ram College**, University of Delhi on 11th – 13th January 2012.
10. Participated in the workshop on “**Recent Advances in Computer Aided Drug Design**” held in December 2011, at INMAS, Timarpur, Delhi.

Webinars/Virtual conference attended

** 29 in total. List is given as Annexure at the end

Awards & Distinctions

- Won the **Best Oral Paper Presentation** award at National Conference on Relationship between Chemical Sciences and Society RCSS-2020 16th – 17th January 2020, Shivaji College, University of Delhi.
- Qualified UGC- JRF (NET), December 2008.
- Qualified GATE 2009.
- Awarded Smt. Shakuntala Chadha Memorial prize for securing highest marks in B.Sc (H) Chemistry I & II year in Daulat Ram College in the year 2005-2006.
- Received all meritorious awards for securing first position in three consecutive years in B.Sc. (H) Chemistry from Daulat Ram College.
- Won meritorious awards from Hansraj College in M.Sc. (Previous) and M.Sc. (Final) for standing first in the college in university examinations.

Public Service/ University Service/ Consulting Activity

- Participated as faculty in the ‘**DU Pre-Entrance Training Program 2016**’ organized by Institute of Life Long Learning (ILLL), University of Delhi in June & December 2016 to be able to make students understand certain important topics that can help them qualify entrance examinations.
- Worked towards representing the Department of Chemistry, University of Delhi at “Antardhvani’2013-Awards of Good Practice”.

Professional Societies Memberships

- Became a member of American Chemical Society (ACS member number is 31523534) on 16th February 2018
- Became a lifetime member of Indian Society of Analytical Scientists (ISAS)- Delhi Chapter (life membership No. LMT-2018 / 01) in February 2018.

Upadhyay

Annexure
Webinars/Virtual conference attended

1. Participated in the National training program on *IPR awareness/training program under the special mission called "National Intellectual Property Awareness Mission (NIPAM)"* organized by Kalindi College, University of Delhi held on **11/02/2022** at Kalindi College.
2. Participated in the webinar on the topic "HOW TO AVOID PREDATORY PUBLISHING? WHAT RESEARCHERS CAN DO" organized by Research Committee Kalindi College under the aegis of IQAC, delivered by Dr. Sumit Narula held on **24/07/2021** at Kalindi College, University of Delhi.
3. Participated in DAE Symposium on Current Trends in Theoretical Chemistry (CTTC-2020) organized by the Chemistry Division, Bhabha Atomic Research Centre from **23/09/2021 to 25/9/2021**.
4. Participated in Webinar on 'Interactive Session with ACS' organized by Department of Chemistry, Kalindi College, University of Delhi on **24th September 2021**.
5. Participated in Webinar on 'Importance of Computational Approaches in Understanding Reaction Mechanisms' organized by Department of Chemistry, Kalindi College, University of Delhi in celebration of Azadi ka Amrit Mohotsav on **25th September 2021**
6. Participated and organized a workshop on "E-Content Development using Basic Tools" Organized by : E-Content Development Committee, Kalindi College, University of Delhi held on **27/09/2021**
7. Participated in International Conference 'Recent Trends in Drug Discovery and Development' organized by Department of Chemistry under the aegis of IQAC, Maitreyi College, University of Delhi from **8/10/2021 – 9/10/2021**.
8. Participated in the webinar on "Discover Emerald journals for your academic excellence and research" organized by Delhi University library system on **18/01/2022**.
9. Successfully completed the two-day workshop on "Government e- Marketplace (GeM)" conducted through Google Meet organized by Central Purchase Committee (under the aegis of IQAC) Bhaskaracharya College of Applied Sciences during **27/01/2022 – 28/01/2022**.
10. Participated and organized the webinar on Tools & Techniques for Avoiding Plagiarism in E-Content Development Organized by : E- Content Development Committee, Kalindi College, University of Delhi on **9/11/2021**.
11. Participated in 9th ASIAN NETWORK OF NATURAL & UNNATURAL MATERIALS INTERNATIONAL CONFERENCE organised by the Department of Chemistry, University of Delhi on Friday, **8/4/2022**.
12. Participated in Online National Workshop on "Laboratory Safety Measures and Chemical Waste Management for Ecological and Environmental Shield" held online on **16/04/2021** organized by Rajdhani College, University of Delhi
13. Participated in two-day National Workshop on "Chemistry in Everyday Life" held online from **17/04/2021 to 18/04/2021** organized by Department of Chemistry, School of Advanced Sciences(SAS), VIT-AP University
14. Participated in National Workshop on "Learning fundamentals of publishing in quality journals" held online on **26/05/2021** organized by Sushant University, Gurugram in collaboration with Elsevier
15. Participated in 7-Day Live Yoga Workshop on "स्वास्थ्य ही संपदा" - HEALTH IS WEALTH held online from **25/05/2021 to 31/05/2021** organized by Dr. Sunita Sharma, Director of Physical Education, Kalindi College.
16. Participated in 21-days yoga workshop on "Integrating mind body and soul" A Community outreach program held online from **01/06/2021 to 21/06/2021** organized by Kalindi College,

University of Delhi

17. Participated in National Webinar on “Geopolitics of Vaccine: Access, R &D and Manufacturing” held online on **22/06/2021** organized by Kalindi College, University of Delhi, in collaboration with Universal Access for vaccine and Medicine & Swadeshi Shodh Sansthan.
18. Attended Indo-UK Virtual Conference on '*Current Innovations and the Future of Therapeutic Developments (CIFTD-2020)*' organized by Centre for Biomaterials, Cellular and Molecular Theranostics (CBCMT) Vellore Institute of Technology (VIT), Tamil Nadu, from **June 1- 3, 2020**
19. Participated in National Webinar on “*Innovation, Social Entrepreneurship & Intellectual Property Rights (IPR)*” organized by IQACs of five colleges of Nagpur on **30th May 2020**
20. Participated in the Two Day International FDP Webinar on “*Challenges and Opportunities in Higher Education in COVID 19 Scenario: The Way Forward*” organised by St. Joseph’s College for Women (Autonomous) Visakhapatnam – 530004, from **27 to 28 May 2020**.
21. Participated in the International Webinar, DOCTRINA-5 organized by Department of Chemistry & IQAC of Sir Syed College, Taliparamba, Kerala, India on **26th May 2020**
22. Participated in National Webinar on "*e-Content Development Methodology: Four Quadrant Model, OERs and Copyright issues*" organized by Guru Angad Dev Teaching Learning Centre (GAD- TLC), SGTB Khalsa College, a center of MHRD under PMMMNMTT on **15th May 2020**.
23. Attended a webinar on “*Search, Research and Publication Ethics*” on **4th May 2020** organized by Kalindi College, University of Delhi
24. Attended National Webinar on "*Challenges & Opportunities before Indian Higher education due to Covid-19*" by Prof. Ved Prakash organized by Guru Angad Dev Teaching Learning Centre (GAD- TLC), SGTB Khalsa College, a center of MHRD under PMMMNMTT on **2nd May 2020**.
25. Participated in the Faculty Development Programme National Webinar entitled "*Towards Excellence in Higher Education in India in the 21st Century: Challenges and Opportunities*" organized by Guru Angad Dev Teaching Learning Centre (GAD-TLC), SGTB Khalsa College, a center of MHRD under PMMMNMTT on **29th April 2020**
26. Participated in the Faculty Development Programme National Webinar entitled "*Roles of Teachers in Technology driven Higher Education*" organized by Guru Angad Dev Teaching Learning Centre (GAD-TLC), SGTB Khalsa College, a center of MHRD under PMMMNMTT on **28th April 2020**
27. Participated in the Faculty Development Programme "*National Workshop on Development of Teacher's e-Kit*" organized by Guru Angad Dev Teaching Learning Centre (GAD-TLC), SGTB Khalsa College, a center of MHRD under PMMMNMTT on **27th April 2020**
28. Attended a National Webinar on “*ICT Enabled Higher Education in India: Challenges and Opportunities*” organized by Guru Angad Dev Teaching Learning Centre (GAD-TLC), SGTB Khalsa College, a center of MHRD under PMMMNMTT on **13th April 2020**
29. Participated in the Webinar on '*Molecular Visualisation Series I*' on Learning Chemistry through ODYSSEY Software organized by the Department of Chemistry, Hindu College in collaboration with Wavefunction Inc., USA and Neotel System and Services on **6th April 2020**.