Faculty detail Proforma

Personal Details

Name	**PROF. PRITI MALHOTRA**	
Designation	**Professor**	
Department	**Chemistry**	
Email	**pritimalhotra21@gmail.com**	

Educational Qualification

Degree	Institution	Year
Ph.D.	Chemistry Department, University of Delhi, Delhi, India	**1990**
M.Phil	Chemistry Department, University of Delhi, Delhi, India	**1987**

Full Time Research Experience

Designation	Institute	Time period	Nature of Appointment
Associate Professor	Chemistry Department, University of Delhi, Delhi, India	2001-2018	Permanent
Professor	Chemistry Department, University of Delhi, Delhi, India	2018-cont.	Permanent

Full time Teaching Experience

s.no	Designation	Institution	Time Period	Nature of Appointment
1	Assistant Professor	Chemistry Department, University of Delhi, Delhi, India	1993-1996	Adhoac
2	Assistant Professor	Chemistry Department, University of Delhi, Delhi, India	1996-2001	Permanent

3	Associate Professor	Chemistry Department, University of Delhi.	2001-2018	Permanent
4	Professor	Chemistry Department, University of Delhi, Delhi, India	2018- cont.	Permanent

Administrative Assignments

Name of Institute	Designation	Status	Time period	Experience
Daulat Ram College, University of Delhi	Head of Department of Chemistry	Head of Department of Chemistry		
Daulat Ram College, University of Delhi	Nodal Officer	for online exams		
Daulat Ram College, University of Delhi	Member	various committees of the Department e.g., Fashion Society, Governing body Core-Committee etc		

Areas of Interest:

- Nanoscience
- Development of Green Analytical Methods
- Green Chemistry
- Waste water purification.
- Environmental Remediation

Subjects Taught

S.No	Course	Subject Taught	Semester	Year
1	Under-graduate	Analytical Chemistry		
2	Under-graduate	Nanoscience		
3	Under-graduate	Group Theory		

4	Under-graduate	Bioinorganic Chemistry		
5	Under-graduate	Organometallic Chemistry		

Research Guidance

Name of student	Gender	Degree for which guidance given	Date of Registration	Supervisor/Cosupervisor	University	Title of Thesis	Date of submission of thesis	Date of Award of Degree
Asha Chilwal	Female			Cosupervisor	Guru Gobind Singh Indraprastha University	Synthesis and Characterization of new organotin derivatives		**2016**
Maruf Chauhan	male		Dec 2016	Supervisor	University Of Delhi	Biogenic synthesis of metal oxide nanoparticles, nanocomposites ofmetal oxide and their catalytic applications	June 2022	Nov 2022
Sushma	Female		2018	Supervisor	University Of Delhi	Exploration of biogenically synthesized semiconductor nanoparticles and nanocomposites for environmental remediation		May 2023

Research projects

S.No.	Name of Research Project	Funding Agency	National/International	Duration	Amount Sanctioned	Amount Received
1	Star College Project on "Green Chemistry"	DBT	National	2011-2013		**13.5Lakhs**
2	Innovation project on "Metal Scavengers based on functionalized silica gels and microorganism	University of Delhi	National	2012-2013		**10 Lakhs**
3	Innovation Project: Controlling heavy metal soil pollution by phytoremediation: a greener and sustainable approach	University of Delhi	National	2013-2015		**5 Lakh**
4	Sponsored Star College Project on "Green Chemistry"	DBT		2014-2013		**18.75Lakhs**
5	Trapping the waste: Rice husk as an agent to remove heavy metal ions, surfactants and organicdyes from waste water	University of Delhi		2015-2016,		**5 Lakhs**
6	Green Synthesis of Iron Nanoparticles for Environmental Remediation and Organic Catalysis	University of Delhi		2015-2016		**5.5 Lakhs**
7	Synthesis of biobased mesoporous material and its application in water purification	University of Delhi		2016-2019		**15 Lakhs**

8	Recycled Polyvinyl Alcohol (PVA) from E-waste and its application	Universityof Delhi		2016-2019		**15 Lakhs**

Publications:

……(Year 2023)……..

1. Sushma Yadav, Anjali Shah and **Priti Malhotra***, Orange peel derived Cu2O/RGO nanocomposite: Mesoporous binary system for degradation of doxycycline in water. Environmental development and Sustainability, 2023. (UGC Listed, IF- 4.08)
2. Sushma Yadav, Tanya Sharma, Ritu Kaushik, and **Priti Malhotra***, Peroxidase mimic activity of Saccharum officinarum L. capped gold nanoparticles using o-dianisidine as a substrate, New Journal of Chemistry, 2023. (UGC Listed, IF-3.9)
3. Sushma Yadav, Anjali Shah and **Priti Malhotra***, Orange Pomace Facilitated Synthesis of Cu2O/ZnO Nanocomposites for Visual and Optical Sensing of Silver Ions in Water for Environmental Remediation, Chemistry Select, 2023. (UGC Listed, IF- 2.3)

……(Year 2022)……..

4. Maruf Chauhan, Sushma Yadav & **Priti Malhotra***, In-situ biogenically synthesized Cu2O/RGO composite using beetroot peel extract for selective and efficient reduction of cinnamaldehyde in water. Applied Nanoscience, 2022. https://doi.org/10.1007/s13204-022- 02699-w. (UGC Listed, IF- 4.0)
5. Sushma Yadav, **Maruf Chauhan**, Priti Malhotra* and MercyKutty Jacob, Distinguished performance of biogenically synthesized reduced graphene oxide based mesoporous Au- Cu2O/RGO ternary nanocomposites for sonocatalytic reduction of nitrophenols in water, New Journal of Chemistry, 2022, DOI: 10.1039/D2NJ00745B. (UGC-Listed, IF- 3.9).

……(Year 2021)……..

6. Maruf Chauhan, Sushma Yadav, Rama Pasricha, and **Priti Malhotra***, Water Chestnut Peel Facilitated Biogenic Synthesis of Zinc Oxide Nanoparticles and their Catalytic Efficacy in the Ring Opening Reaction of Styrene Oxide, Chemistry Select, doi.org/10.1002/slct.202102031. (UGC Listed, IF- 2.1)

7. Neeru Dhamija, Tanya Kalra, Divyangi Dubey, **Priti Malhotra** and Anita Garg Mangla, Mutual impact of covid 19 and pollution, Pollution Research, 40(4), 2021, 1346-1353.
8. Sushma Yadav, Arti Jain, **Priti Malhotra***, Bioinspired synthesis and green ecological applications of reduced graphene oxide based ternary nanocomposites, Sustainable Materials and Technologies, Volume 29, 2021, e00315, ISSN 2214-9937, https://doi.org/10.1016/j.susmat.2021.e00315. (UGC Listed, IF-10.6)
9. Arti Jain, Sushma Yadav, **Priti Malhotra***, Accidental synthesis of a trimer of pyrazolone and comparison of its antioxidant activity: an investigatory report. Journal of Chemical Science, 133, 77 (2021). https://doi.org/10.1007/s12039-021-01943-0 (UGC Listed, IF-1.5).

……(Year 2020)……..

10. Anita Garg Mangla, Neeru Dhamija, **Priti Malhotra,** Tanya Kalra, Parthvi Mahendru, Shreya Kandpal and Divyangi Dubey, India seems to be better placed in fighting against covid-19: a review, International Journal of Advance Research, 2020, 8(06), 711-717. (Peer reviewed)
11. Sushma Yadav, Maruf Chauhan, Divya Mathur, Arti Jain, **Priti Malhotra***, Sugarcane bagasse-facilitated benign synthesis of Cu2O nanoparticles and its role in photocatalytic degradation of toxic dyes: a trash to treasure approach. Environmental Development and Sustainability, (2020). https://doi.org/10.1007/s10668-020-00664-7 (UGC Listed, IF-3.9)

……(Year 2019)……..

12. Sushma Yadav, Arti Jain, **Priti Malhotra*** A review on the sustainable routes for the synthesis and applications of cuprous oxide nanoparticles and their nanocomposites, Green Chemistry, 2019, 21, 937-955. (UGC Listed, IF-10)

……(Year 2016)……..

13. Rekha Kathal, **Priti Malhotra** and Vidhi Chaudhary, Phytoremediation of Cadmium from Polluted Soil, Journal of Bioremediation & Biodegradation, 7:376. doi: 10.4172/2155-6199.1000376.
14. Rekha Kathal, **Priti Malhotra,** Lalit Kumar and Prem Uniyal, Phytoextraction of Pb and Ni from the Polluted Soil by Brassica juncea L.. Journal of Environmental & Analytical Toxicology, 2016, 6, DOI-10.4172/2161-0525.1000394. (Peer reviewed)
15. **Priti Malhotra** and Arti Jain, Role of Nanotechnology as A Tool for Sustainability: Potential of Zerovalent Metal Nanoparticles (ZVN) and Their Metal Composites in Environmental Remediation, International Journal of Mathematics and Physical Sciences Research, 2016, 3, 2, 143-150. (Peer reviewed)

16. **Priti Malhotra**, Rekha Kathal and Aditi Puri, Iron Nanoparticles Catalyzed Degradation of Organic Dyes in Water for Environmental Remediation, Journal of Basic and Applied Engineering Research, 2016, 3, 1, 41-43. (Peer reviewed, IF-0.26)
17. **Priti Malhotra**, Arti Jain and Ritu Payal, Drinking Water and Health: A Unique Solution for Remediation of Contaminated Water for Sustainable Health, Journal of Basic and Applied Engineering Research, 2016, 3, 44-47. (Peer reviewed)
18. Rekha Kathal, **Priti Malhotra** and Vidhi Chaudhary, Phytoremediation-A Greener and Sustainable Technology for Controlling Toxicity of Copper in Soil, Journal of Basic and Applied Engineering Research, 2016, 3, 1, 56-59. (Peer reviewed, IF-0.26)
19. **Priti Malhotra,** Ritu Payal and Arti Jain, Whether to Worry with Waste: A Review on Activated Carbon Precursors from Various Waste Materials, International Journal of Advanced Research, 2016, 4 14-20. (Peer reviewed)
20. **Priti Malhotra**, Divya Mathur and Jitendra Singh, Green Synthesis of Iron Oxide Nanoparticles using Cinnamon Zeylanicum Powder extract. International Journal of Chemistry and Pharmaceutical Science, 2016, 4,7, 366. (Peer reviewed)

……(Year 2017)……..

21. Arti Jain, Ritu Payal and **Priti Malhotra**, Removal of Heavy Metals From Laboratory wastewater: A sustainable Approach, International Journal Of Chemical, Environmental & Biological Sciences, 5(1), 2017.

22. Priti Malhotra, Arti Jain, and Rekha Kathal, Review on Biobased Mesoporous Material and Their Application in Waste Water Treatment, Current Trends in Biomedical Engineering & Biosciences, 2017, 4(2), DOI: 10.19080/CTBEB.2017.03.5555635

……(Year 2014)……..

23. Asha Chilwal, **Priti Malhotra** and A.K. Narula, Synthesis, characterization, thermal and antibacterial studies of organotin (IV) complexes with indole-3-butyric acid and indole-3- propionic acid, Phosphorus, Sulfur, and Silicon and the Related Elements, 2014, 189, 410-421. (UGC Listed, IF-1.04)

……(Year 2013)……..

24. Asha Chilwal, **Priti Malhotra** and A.K. Narula. Thermal analysis of new dimethyl/ dibutyl Tin(IV) compounds with amino acids, Journal of Thermal Analysis and Calorimetry, 2013, 114, 345-351. (UGC Listed, IF-2.7)

25. Asha Chilwal, Gagan Deep, **Priti Malhotra** and A.K. Narula, Diorganotin complexes of carboxylates: Synthesis and characterization, Journal of Coordination Chemistry, 2013, 66, 1046–1057. (UGC Listed, IF-1.3)

……(Year 2009)……..

26. Darshan, **Priti Malhotra** and A.K. Narula, Studies on the curing kinetics and thermal stability of Diglycidyl ether of bisphenol-A (DGEBA) using mixture of novel, environment friendly sulphur containing amino acids and 4,4'-diaminodiphenylsulfone, Journal of Applied Polymer Science, 2009, 113, 216-225. (UGC Listed, IF-2.1)
27. Darshan, **Priti Malhotra** and A.K. Narula, Synthesis, Characterization of Diamide-Diimide-Diamines based on L-Cysteine amino acid and their effect on the Thermal properties of Diglycidyl Ether of Bisphenol-A (DGEBA), Chinese Journal of Polymer Science, 2009, 27, 647-658. (UGC Listed, IF-3.1)
28. Darshan, **Priti Malhotra** and A.K. Narula, Effect of structure of diamide-diimide-diamines based on L-methionine on curing behaviour and thermal stability of DGEBA, Indian Journal of Chemistry, 2009, 48B 893-903. (UGC Listed)

……(Before 2009)……..

29. Darshan, Pooja Sharma, **Priti Malhotra** and A.K. Narula, Synthesis, Characterization and Thermal Properties of Tris (3-Aminophenyl) Phosphine Oxide-Based Nadimide Resin, Journal of Applied Polymer Science, 2008, 107, 1628-1634. (UGC Listed, IF-3.1)
30. Beer Singh, G. K. Prasad, D. Pandey and **Priti Malhotra,** Dynamic Adsorptive Removal of Toxic Chemicals for purification of water, Amit Saxena, Defence Science Journal, 2005, 55, 117-123. (UGC Listed, IF-0.589)
31. Beer Singh, Sushma Kher, **Priti Malhotra** and P.N. Kapoor, Beta-diketonates of bimetallic μ-oxoisopropoxides Mn [OAl(Opri)2]and [OAl(Opri)2]2. Main Group Metal Chemistry, 1988, Vol. 4. (UGC Listed, IF-0.42)

Books

S.No	Details	Publisher	Date of publishing	Authored/Edited	ISBN No
1.	Book authored on "Analytical Chemistry Basic concepts.	Ane's publication			978-93-8365-601-1

2.	Novel Inorganic Solids and Nanomaterials	I.K. International Pvt. Ltd. publication			9789390620951.

Book Chapters/Articles

1. Arti Jain and **Priti Malhotra**, Covalent Organic Frameworks (COFs) as Catalysts: An Overview, Metal-Organic Frameworks (MOFs) as Catalysts, 2022, DOI: 10.1007/978- 981- 16-7959-9_10
2. Sushma Yadav and **Priti Malhotra**, Metal–Organic Frameworks (MOFs) as Sensors for Environmental Monitoring, Metal-Organic Frameworks (MOFs) as Catalysts, 2022, DOI: 10.1007/978- 981-16-7959- 9_15.
3. Sushma Yadav and **Priti Malhotra**, Metal–Organic Frameworks (MOFs) as heterogenous catalysis: An overview, Metal-Organic Frameworks (MOFs) as Catalysts, 2022, ISBN: 978- 981-16- 7959-9
4. **Priti Malhotra** and Arti Jain, Graphene oxide-based nanocomposites for adsorptive removal of water pollutants, Contamination of Water, 2021, DOI: 10.1016/B978-0-12-824058- 8.00031-1
5. **Priti Malhotra**, Arti Jain and Ritu Payal, Porous Silica nanoparticles from Rice Husk for the Elimination of Erichrome Black T (EBT) from Laboratory Waste Water, Chapter in Green Chemistry and Environmental Sustainability, published by Springer, ISBN: 978-981- 10-8389-1, 2018.
6. Ritu Payal, Arti Jain and Priti **Malhotra**, Use of Cost-effective Kitchen Ingredients in Acid- Base Titrations: A Greener Approach, Chapter in Green Chemistry and Environmental Sustainability, published by Springer, ISBN: 978-981-10-8389-1, 2018.
7. **Priti Malhotra** and Divya Mathur, Exploring New Dimensions of Polyvinyl-alcohol (PVA), Conference Proceedings of the National Conference on Innovations in Sciences and Emerging Challenges in Health and Environment, Page 40-46, 2018, ISBN: 9788192981246.
8. Divya Mathur, **Priti Malhotra**, Maruf Chauhan and Sushma Yadav, Biogenic Synthesis of Iron Nanoparticles and their Applications, Conference Proceedings of the National Conference on Innovations in Sciences and Emerging Challenges in Health and Environment, Page 78-85, 2018, ISBN: 9788192981246.
9. **Priti Malhotra**, Arti Jain and Ritu Payal, Low-cost nanoparticles sorbent from modified agricultural waste efficient removal of Pb(II) from water, Conference Proceedings of the UGC-sponsored National Conference in Chemistry: Environment and Harmonious Development organized by Shyam Lal College, University of Delhi, 159-161, 2016, ISBN:9789385824012.

10. Anjali Verma, Divya Mathur and Priti **Malhotra**, Green Synthesis of Zero Valent Iron Nanoparticles (Fe NP) Employing Plant Extracts, Conference Proceedings of the UGC- sponsored National Conference in Chemistry: Environment and Harmonious Development organized by Shyam Lal College, University of Delhi, Page 84, 2016, ISBN: 9789385824012.\
11. **Priti Malhotra**, Waste to wealth approach: Removing toxic heavy metals and organic dyes from waste water using agricultural waste. Conference Proceedings of International conference on biology and medicinal sciences, Dubai, 2017, ISBN: 9789384422776.
12. **Priti Malhotra** and Arti Jain, Graphene oxide-based nanocomposites for adsorptive removal of water pollutants, Contamination of Water, 2021, DOI: 10.1016/B978-0-12-824058- 8.00031-1
13. **Priti Malhotra**, Arti Jain and Ritu Payal, Porous Silica nanoparticles from Rice Husk for the Elimination of Erichrome Black T (EBT) from Laboratory Waste Water, Chapter in Green Chemistry and Environmental Sustainability, published by Springer, ISBN: 978-981- 10-8389-1, 2018.
14. Ritu Payal, Arti Jain and **Priti Malhotra**, Use of Cost-effective Kitchen Ingredients in Acid- Base Titrations: A Greener Approach, Chapter in Green Chemistry and Environmental Sustainability, published by Springer, ISBN: 978-981-10-8389-1, 2018.
15. **Priti Malhotra** and Divya Mathur, Exploring New Dimensions of Polyvinyl-alcohol (PVA), Conference Proceedings of the National Conference on Innovations in Sciences and Emerging Challenges in Health and Environment, Page 40-46, 2018, ISBN: 9788192981246
16. **Priti Malhotra**, Arti Jain and Ritu Payal, Low-cost nanoparticles sorbent from modified agricultural waste efficient removal of Pb(II) from water, Conference Proceedings of the UGC-sponsored National Conference in Chemistry: Environment and Harmonious Development organized by Shyam Lal College, University of Delhi, 159-161, 2016, ISBN:9789385824012.
17. Anjali Verma, Divya Mathur and **Priti Malhotra**, Green Synthesis of Zero Valent Iron Nanoparticles (Fe NP) Employing Plant Extracts, Conference Proceedings of the UGC- sponsored National Conference in Chemistry: Environment and Harmonious Development organized by Shyam Lal College, University of Delhi, Page 84, 2016, ISBN: 9789385824012.
18. **Priti Malhotra**, Waste to wealth approach: Removing toxic heavy metals and organic dyes from waste water using agricultural waste. Conference Proceedings of International conference on biology and medicinal sciences, Dubai, 2017, ISBN: 9789384422776.
19. Edited and authored a book entitled “Green Chemistry in Environmental Sustainability and Chemical Education” published by Springer (ICGC-2016), DOI 10.1007/978-981-10- 8390-7.

Presentation Resource Person (Conference/seminar/ workshop/training programme/ educational trips

- Three Days Inter-college **workshop and conference on Green Chemistry** at Department of Chemistry, Daulat Ram College in **2012**.
- Two Days **Workshop and lecture series on Green Chemistry** at Department of Chemistry, Daulat Ram College in **2013**.
- One Day **Workshop and lecture series on Green Chemistry at Department of Chemistry**, Daulat Ram College in **2014**.
- Conducted a skill development course of three weeks on "**Skill development in applied chemistry and Instrumentation**" from 8th to 26th June, **2015** at Daulat Ram College.
- Conducted a skill development course of two weeks on "**Skill development in Cosmetics and Perfumeries**" from14th to 28th December, **2015** at Daulat Ram College.
- Conducted a skill development course of two weeks on "**Skill development in genesis and sustainability of personal care products and food stuff"** from **1st to 15th July, 2016** at Daulat Ram College
- Conducted International Conference on "**Green Chemistry in Environmental Sustainability & Chemical Education" (ICGC-2016)** from 17th November to 18th November **2016** at Daulat Ram College Auditorium, University of Delhi.
- Conducted Indo-French Symposium on "**Recent Advances in Biomedical Engineering**" on 6th February **2017**.
- Conducted Faculty Development Programme on "**Chemistry of Life to Chemistry of Diseases: Understanding Clinical Biochemistry**" from **15th June to 22th June 2017**.
- Conducted National Conference on **"Innovations in Sciences and Emerging Challenges in Health and Environment" (NSHE-2018)** on **20th March 2018** at Daulat Ram College, University of Delhi.
- Conducted Online Summer Internship Programme on "**Research methodology for chemistry**" from 16th May to **20th May 2020** at Daulat Ram College, University of Delhi.

International/National Conference Proceedings publications, Conference Attended and Paper

1. Invited to deliver presentation on "one pot synthesis of biogenic cuprous oxide nanopaticles using sugarcane baggasse and its application in synthesis of phenols without using H_2O_2" in 23rd Annual Green Chemistry and Engineering conference and 9th International Conference on Green and sustainable Chemistry, Dubai, 12th June **2019.**

2. Delivered an oral presentation on “one pot environmentally benign synthesis of cuprous oxide nanoparticles from aloe vera and its application of toxic azo dyes in waste water” in 6th world congress on nanomedical sciences on Chemistry biology interface: synergistic in new frontiers (CBISNF-2019) and science and technology for the future mankind organized by Jamai Hamdard and University of Delhi, 7th January, **2019.**
3. Resource person in Inspire Science Camp, 17th December, **2018.**
4. Resource person in Faculty development programme on industrial and environmental microbiology, 19th March **2018.**
5. Delivered an oral presentation on “Metal ions in Clinical Biochemistry” in 1 week faculty development programme 2017 on from chemistry of life to chemistry of diseases: understanding clinical biochemistry, Daulat Ram College, 5th August, **2017.**
6. Delivered an oral presentation on “Green Corrosion Inhibitors: Using a blend of aloe vera combined with wheat grass extract as a corrosion inhibitor for metal” in International Conference on Advances in Applied Sciences, Engineering and Technology, K R Mangalam University, 17th July **2017**.
7. Delivered an oral presentation on “Green chemistry” in National Seminar on a Paradigm Shift Towards Empowerment of Women Kalindi College, DU, 3rd February, **2017.**
8. Delivered lecture (resource person) on “Green synthesis of silver nanoparticles from natural extracts and preparation of antiaging creams from nanoparticles” in skill development course on Instrumentation, analytical clinical and computational chemistry, Daulat Ram College, 2nd August, **2017**.
9. Delivered lecture on “Green chemistry in Laboratory Teaching” in Innovations in Chemistry Laboratory Teaching, Zakir Hussain college, DU, 8th February **2017.**
10. Delivered lecture on “Green Pathways in nanoparticle synthesis and nanocoating for stable and efficient catalysis” in International Conference on Advances in Applied Sciences, Engineering and Technology, K R Mangalam University, 18th July **2017**.
11. Delivered an oral presentation on “wastewater remediation” in National Conference on Environmental Sustainability in Wastewater Remediation: Current Status and Future Prospects on 19th January, **2017**.
12. Delivered an oral presentation on “Linking Lifestyle with Chemistry” in National Symposium and Awareness programme on Lifestyle and Reproductive Health Challenges, Daulat Ram College, 29th March **2017.**
13. Delivered an oral presentation on “wastewater remediation” in Green Chemistry and Water Treatment, Royal Society of Chemistry, North India Section on 17th October, **2017**.

14. Delivered lecture on “Surface chemistry” in Emerging issues of climate change: sustainability and economic implication, Sri Aurobindo College, University of Delhi on 29th March **2016.**
15. Delivered lecture on “Green Chemistry for Nanoparticles' Synthesis” in Nanoscience-Opportunities and Challenges, Maitreyi College, 19th February **2016**.
16. Delivered an oral presentation on “Drinking water and Health: A unique solution for remediation of contaminated water for sustainable health” in Public Health: Issues, Challenges, Opportunities, Prevention, Awareness, Daulat Ram College, Delhi University, 16th January **2016.**
17. Delivered lecture on “Solid waste management: A Cradle-to-cradle approach for environmental cleanup” in National Seminar on Emerging Economics and challenges to Sustainability Sri Aurbindo College, University of Delhi on 29th March **2016.**
18. Delivered Lecture on “Green Methods for Iron Nanoparticles Synthesis” in National Conference on Combating Industrial Pollution for sustainable environment, Gargi College, 22th September **2016**.
19. Delivered Lecture on “Green Synthesis of Gold Nanoparticles from natural extracts and its application in antiaging” in Resource Person in skill development course on Green Genesis and Sustainability of personal care products and food stuff, Daulat Ram College, 8th July **2016**.
20. Delivered an oral presentation on “Iron nanoparticles catalyzed degradation of organic dyes in water for environmental remediation” in Public Health: Issues, Challenges, Opportunities, Prevention, Awareness, Daulat Ram College, Delhi University, 16th January, **2016.**
21. Delivered an oral presentation on “Green synthesis of zero-valent iron nanoparticles employing plant extracts” in National Seminar on Innovative, Advanced Research in Bio-medical and Environmental Dynamics held on 9th October **2015.**
22. Delivered an oral presentation on “Greener Methods of Nanoparticle Synthesis” in Indo-German Workshop on Supramolecular Chemistry, Dept of Chemistry, University of Delhi, 30th March **2015.**
23. Delivered an oral presentation on “Greener Methods in Synthetic Chemistry” in International Workshop on Chemistry for Sustainable Future, University of Rajasthan, 30th May **2015**.
24. Deliver lecture on “Green chemistry Innovation” in Green Initiatives in Science and Technology, Manav Rachna College of Engineering, 15th January **2015**.,
25. Invited to deliver presentation on “Synthesis of iron nanoparticles (FeNp) from natural extracts and its characterization in OMICS International world congress on biotechnology, 5th -7th October **2015.**
26. Invited lecture on “Green Chemistry” in SC Workshop on chemistry for tomorrow's world, Green Chemistry Network Centre and Delhi University and Manav Rachna University, 2nd December

2015.

Awards Won

- **2018:** Convenor "Innovations in Sciences and Emerging Challenges in Health and Environment" (NSHE-2018) held on 20th March 2018 at Daulat Ram College, University of Delhi.
- **2017:** Convenor, International Conference on Green Chemistry in Environmental Sustainability and Chemical Education held on 17th November 2017 at Daulat Ram College, University of Delhi.
- **2017:** Convenor of Indo-French Symposium on Recent Advances in Biomedical Engineering was organized on 6th February 2017 at Daulat Ram College, University of Delhi.
- **2017:** Convenor, Resource Person in 1 week faculty development programme 2017 on from chemistry of life to chemistry of diseases, 15th August 2017 at Daulat Ram College, University of Delhi.
- **2017**: Keynote Speaker in the World congress on biotechnology and biological studies held on 9th November 2017, New Delhi.
- **2017:** Session Chairperson in the National Seminar on A Paradigm Shift towards empowerment of women held on 3rd February, 2017 at Kalindi College, University of Delhi, Delhi.
- **2017:** Session Chair in the 7th International Conference on chemistry, biofuels and Chemical Engineering held on 3rd August 2017, awarded by International Scientific Academy of Engineering & Technology, Pattaya, Thialand.
- **2017** Keynote Speaker in the 7th International Conference on chemistry, biofuels and Chemical Engineering held on 4th August, 2017, awarded by International Scientific Academy of Engineering & Technology, Pattaya, Thialand.
- **2017** Best Poster Awrad by Kalindi College, University of Delhi.
- **2016** Certificate of Appreciation for Innovation Project, University of Delhi. College, University of Delhi.
- **2015** Best Poster Awrad by International Conference on Green Initiatives in Science & Technology, Manav Rachna College of Engineering.
- **2011** Convenor, Workshop on Recent Trends in Green Chemistry held on 11th January 2011 at Daulat Ram College, University of Delhi.

Administrative activities

- Head of the Department of Chemistry in Chemistry Department Daulat Ram College, University of Delhi (2003-2004).
- Convener of Student Advisory Board in 2006-2007.
- Teachers Representative of Governing Body in 2008-2009.
- Council Secretary in 2010.
- Head of the Department of Chemistry in Chemistry Department Daulat Ram College, University of Delhi (2009-2010).
- Practical Exam Convenor in 2015-2016.
- Convener of Fashion Society in 2016-2017.
- Undergraduate EVS paper coordinator in Daulat Ram College, University of Delhi in 2016-2017.
- Head of the Department of Chemistry in Chemistry Department Daulat Ram College, University of Delhi (2016-2017).
- Theory Paper Setter (HEAD) in University of Delhi in 2016-2017.
- Convener of Fashion Society in 2017-2018.
- Theory Paper Setter (HEAD) in University of Delhi in 2017-2018.
- Convener, Student advisory board in Chemistry Department Daulat Ram College, University of Delhi (2017-2018).
- Convener of Fashion Society in 2018-2019.
- Admission Core committee convener science in Daulat Ram College (2018-2019).
- Admission Core committee convener science in Daulat Ram College (2019-2020).
- Convener of Fashion Society in 2019-2020.
- Design of New Curricula and Courses in University of Delhi in 2019.
- Design of New Curricula and Courses in IGNOU in 2019.
- Deputy Superintendent exams in Daulat Ram College (2021-2022)
- Nodal officer for online exams OBE (2021-2022)
- Deputy Superintendent exams in Daulat Ram College (2022-2023)