

FACULTY PROFILE PROFORMA

Title (Ms/Mr/ Dr /Prof)	Dr.	First Name	GEETA	Last Name	YADAV	Photograph
Designation	Assistant Professor					
Department	Chemistry					
Address (Official)	Department of Chemistry, Kalindi College (University of Delhi), East Patel Nagar, New Delhi-110008					
Phone No.	8010905097					
Email	geetadevi@kalindi.du.ac.in					
Education						
Subject	Institution		Year		Details	
Asymmetric Synthesis	University of Delhi		2017		Ph.D.	
Chemistry (Organic)	University of Rajasthan		2011		M.Sc.	
Chemistry	University of Rajasthan		2009		B.Sc.	
Career Profile						
Organization/Institution	Designation		Duration		Role	
Kalindi College	Assistant Professor		08-01-2024 to Till Date		Teaching & Administrative Duties	
Department of Chemistry, University of Delhi	Women Scientist Scheme–A (WOS-A)		06-07-23 to 07-01-24		Research work	
Swami Shradhhanand College	Assistant Professor		22-02-2021 to 10-10-22		Teaching & Administrative Duties	
Department of Chemistry, University of Delhi	Research Associate		16-02-2018 to 31-12-2020		Research work	

Department of Chemistry, University of Delhi	Assistant Professor	20-7-2016 to 19-01-2017	Teaching & Administrative Duties
Research Interests/Specialization			
Asymmetric synthesis and catalysis			
Administrative Assignments/Contribution to corporate life			
• Convenor of the student feedback and student satisfaction survey, 2025-26. • Committee Member of the BA program committee, 2025-26. • Committee Member of the outstation and foreign student cell, 2025-26. • Committee Member of the repository committee, 2025-26. • Convenor, refreshments at Annual Day-2025 • Refreshments for BA Programme, Orientation Program, 2025-26 • Co-convenor, refreshments for Chief Guest & Judges at Lehen and Annual Day-2026 • Convenor of student feedback and student satisfaction survey, 2024-25. • Committee Member of BA program committee, 2024-25. • Committee Member of the outstation and foreign student cell, 2024-25. • Committee Member of the repository committee, 2024-25.			
Teaching Experiences (Subject/Courses taught)			
• BSc (P), BSc (H) Chemistry and MSc Classes			
Research Guidance			
1. Salt of 1,4-diazabicyclo [2,2,2] octane acts as an efficient organocatalyst for the organic transformation.			
Book Chapter (Peer Reviewed)			
Year of Publication	Title	Journal (Name of the journal, Vol. Issue ISSN)	Co-Author
2024	Homogeneous Catalytic Epoxidation of Olefins	Elsevier, volume 4, 257, 978-0-443-15620-5	Deepa, P. Jhajharia and Surendra Singh
2024	Chiral Ionic Liquids as Organocatalysts for the Asymmetric Organic Transformations	Nova Science Publishers,	P. Jhajharia and Surendra Singh

2021	SALEN, SALALEN AND SALAN METAL COMPLEX CATALYSED ASYMMETRIC ORGANIC TRANSFORMATION	Nova Science Publishers, 978-1-68507-094-6	Pooja Chaudhary and Surendra Singh
Publication (Peer Reviewed/Indexed Journals)			
Year of Publication	Title	Journal (Name of the journal, Vol. Issue ISSN)	Co-Author
2026	Asymmetric homogeneous oxidation reactions catalyzed by first-row transition metal complexes	Chirality, 2026, e70090	Deepa, P. Jhajharia, B. Pani And S. Singh
2024	Pyrrolidine-based C1-symmetric chiral transition metal complexes as catalysts in asymmetric organic transformations	<i>Tetrahedron Letters</i> , 134 154835, ISSN: 0040-4039	Pooja Chaudhary, B. Pani And S. Singh
2022	Synthesis and structural studies of Pd(II) complexes of bidentate Schiff bases and their catalytic activities as pre-catalysts in the Mizoroki-Heck reaction	<i>Polyhedron</i> , 222, 115931, ISSN	Dhan Raj Meena, Deepa, Mohd Jubair Aalama, Pooja Chaudhary, Surendra Singh
2022	A simple protocol for the determination of enantiopurity of amines using BINOL derivatives as chiral solvating agents via ¹ H- and ¹⁹ F-NMR spectroscopic analysis.	<i>RSC. Advances</i> , 12, 25457, ISSN-2046-2069	Pooja Chaudhary, Surendra Singh
2022	Synthesis of new chiral Mn(III)–salen complexes as recoverable and reusable homogeneous catalysts for the asymmetric epoxidation of styrenes and chromenes.	<i>New J. Chem.</i> 46, 1308, ISSN-1144-0546	Pooja Chaudhary, Krishna K. Damodaran, Surendra Singh
2021	DABCO-based chiral ionic liquids as Recoverable and reusable organocatalysts for Asymmetric Diels-Alder Reaction.	<i>Chirality</i> , 34, 134, ISSN-1520-636X	M. J. Aalam, Deepa, P. Chaudhary, D. R. Meena, S. Singh

2021	Cellulose sulfate: An Efficient Heterogeneous Catalyst for the Ring Opening of Epoxides with alcohols.	Synthetic Communication, 51, 1834, ISSN- 0039-7911	P. Chaudhary, Deepa, D. R. Meena, M. J. Aalam, S. Singh
2020	Chiral Imidazolidin-4-one with a Catalytic Amount of Dicationic Ionic Liquid act as a Recoverable and Reusable Organocatalyst for Asymmetric Diels-Alder Reaction.	<i>Chirality</i> , 32, 64, ISSN-1520-636X	Deepa, P. Chaudhary, M. J. Aalam, D. R. Meena, S. Singh
2019	Prolinamide-catalyzed Asymmetric Organic Transformations.	<i>ChemistrySelect</i> 4, 5591-5618, ISSN-2365-6549	Deepa, S. Singh
2019	Synthesis of Dihydropyrimidinones (DHPMs) and Hexahydro Xanthene Catalysed by 1,4-Diazabicyclo [2.2.2] Octane Triflate Under Solvent Free Condition.	<i>Current Organic Synthesis</i> , 16, 1-25, ISSN-15701794	Deepa, P. Chaudhary, M. J. Aalam, S. Singh
2018	Asymmetric Henry reaction catalyzed by chiral Cu(II) salalen and salan complexes derived from (S)-proline.	<i>Inorganic Chimica Acta</i> , 479, 240-245, ISSN-0020-1693	A. Dixit, P. Kumar, S. Singh
2017	1,4-Diaza-bicyclo[2.2.2]octane trifluoroacetate: A highly efficient organocatalyst for the cyanosilylation of carbonyl compounds under solvent-free condition.	<i>ChemistrySelect</i> , 2, 4830, ISSN-2365-6549	S. Singh
2016	N-Arylprolinamide act as an organocatalyst for direct asymmetric aldol reaction of acetone with isatin,	<i>Tetrahedron: Asymmetry</i> , 27, 123, ISSN-0957-4166	S. Singh

2016	<i>trans</i> -4-Hydroxy-(<i>L</i>)-prolinamide as an efficient catalyst for direct asymmetric aldol reaction of acetone with isatins.	<i>Tetrahedron: Asymmetry</i> , 27, 463, ISSN-0957-4166	S. Singh
2016	(<i>l</i>)-Prolinamide imidazoliumhexafluorophosphate ionic liquid as an efficient reusable organocatalyst for direct asymmetric aldol reaction in solvent-free conditions,	<i>RSC Advances</i> , 6, 100459, ISSN-2046-2069	S. Singh
2016	(<i>S</i>)-Pyrrolidine-containing chiral manganese (III)-salalen and salan complexes as catalysts for the asymmetric Henry reaction,	<i>Synlett</i> 27, 267, ISSN- 0939-2661	P. Kumar, M. S. Chauhan, S. Singh
2016	Salts of 1-(Chloromethyl)-DABCO: A highly efficient organocatalyst for the alcoholysis of epoxides,	<i>Current catalysis</i> 5, 203, ISSN-2211-5447	A. Dixit, M. S. Chauhan and S. Singh
2016	Surfactant-directed Ag ₁ –xNi _x alloy nanoparticle catalyzed synthesis of aromatic azo derivatives from aromatic amines,	<i>Applied Catalysis A General</i> , 525, 50, ISSN-0926-860X	M. Kumar, K. Soni, S. Singh, S. Deka
2015	Methyloxonium triflate: An efficient catalyst for ring opening of epoxides with alcohols under ambient conditions,	<i>Current Catalysis</i> 4, 133, ISSN-2211-5447	M. Mishra, S. Singh
2015	Direct asymmetric aldol reaction catalyzed by <i>trans</i> -4-hydroxy-(<i>S</i>)-prolinamide in solvent-free conditions.	<i>Tetrahedron: Asymmetry</i> , 26, 1156, ISSN-0957-4166	S. Singh
2014	Ring-opening of epoxides with alcohols using Fe(Cp) ₂ BF ₄ as catalyst.	<i>Tetrahedron Lett.</i> 55, 3979, ISSN-0040-4039	S. Singh
2014	Fe(Cp) ₂ BF ₄ : An efficient Lewis acid catalyst for the aminolysis of epoxides,	<i>Synthesis</i> , 629, ISSN-0039-7881	M. S. Chauhan and S. Singh

Seminar/Workshop/Conferences Presentation/Organisation			
- Presented a SIL lecture in the International Conference on CBRNE Related Threat to National Security and Safety- AntiTerrorism Measure for safe environment (ICCTNSS-2026), Department of Chemistry, University of Delhi, India, on 12-13, March 2026, entitled <i>trans</i>-4-hydroxy-(<i>L</i>)-prolinamide imidazolium hexafluorophosphate ionic liquid as an efficient reusable organocatalyst for direct asymmetric aldol reaction” <u>G. D. Yadav</u> and S. Singh*. - Presented a Oral presentation in the International Conference on Innovations in chemistry: Bridging science, technology and industry (ICBSTI-26), Department of Chemistry, Maulana Azad National Institute of Technology (MANIT) Bhopal, India, on 8-9, January 2026, entitled “<i>trans</i>-4-hydroxy-(<i>L</i>)-prolinamide imidazolium hexafluorophosphate ionic liquid as an efficient reusable organocatalyst for direct asymmetric aldol reaction” <u>G. D. Yadav</u> and S. Singh*. - Presented a Poster presentation in the National Conference on Integrating Green Chemistry into Academia and Industry for Sustainable Development,” Gargi College, University of Delhi, India, held on 10-11, November 2025, entitled 1,4-Diazabicyclo[2.2.2]octane Trifluoroacetate acts as an efficient Organocatalyst for the Cyanosilylation of Carbonyl Compounds,” <u>G. D. Yadav</u> and S. Singh*. - Presented a Poster presentation in the 24th National Conference on Catalysis (CATSYMP-24), (CSCME-2025), Department of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, India, held on 24-26, February 2025, entitled “(L)-Prolinamide imidazolium hexafluorophosphate ionic liquid as an efficient reusable organocatalyst for direct asymmetric aldol reaction,” <u>G. D. Yadav</u> and S. Singh*. - Presented an Oral presentation in the 2nd International Conference on Advanced materials for green chemistry and sustainable environment K. R. Mangalam University, Gurugram & Shivaji College, University of Delhi, India, held on 20-21, March 2025, entitled “<i>trans</i>-4-hydroxy-(<i>L</i>)-prolinamide imidazolium hexafluorophosphate ionic liquid as an efficient reusable organocatalyst for direct asymmetric aldol reaction” <u>G. D. Yadav</u> and S. Singh*.			

- Presented an **oral presentation** in the 2nd National Conference on (ETFC-2020), Department of Chemistry, Kirori Mal College, University of Delhi, Delhi, India, held on **10-11, January 2020**, entitled “Development of Reusable (*L*)-Prolinamides as organocatalysts in direct asymmetric aldol reaction” **G. D. Yadav** and S. Singh*.
- Presented an **oral presentation** in the national conference (NFCFA 2019), Department of Chemistry, BITS Pilani, Goa Campus, Goa, India on **20-22, December 2019**, entitled “(*L*)-Prolinamide imidazolium hexafluorophosphate ionic liquid as an efficient reusable organocatalyst for direct asymmetric aldol reaction in solvent-free conditions”, **G. D. Yadav** and S. Singh*
- Presented an **oral presentation** in DU-JAIST Symposium 2016, Department of Chemistry, University of Delhi, Delhi, India on **26-27, February 2016**, entitled “Ionic liquid of *trans*-4-hydroxy-(*L*)-prolinamide with imidazole as efficient recoverable organocatalyst for direct asymmetric aldol reaction”, **G. D. Yadav** and S. Singh*
- Presented an **oral presentation** in an international conference on FCASI-2016 at Department of Chemistry, University of Rajasthan, Jaipur, Rajasthan on **25-26, April 2016**, entitled “Salts of 1,4-diaza-bicyclo[2.2.2]octane: A highly efficient organocatalyst for the cyanosilylation of carbonyl compounds”, **G. D. Yadav** and S. Singh*
- Presented a **poster presentation** in the national conference on OCSD-2016 at the Department of Chemistry, BITS, Pilani, Rajasthan, on **29-30, August 2016**, entitled “Development of Reusable (*L*)- Prolinamides as organocatalysts in direct asymmetric aldol reaction”, **G. D. Yadav** and S. Singh* (**Awarded as Best Poster Presentation**)
- A **poster presentation** in 22nd National Symposium on Catalysis (CATSYMP 22) at CSIR-CSMCRI, Bhavnagar, Gujarat, India on **January 7-9, 2015**, entitled “*Trans*-4-hydroxy-*L*-prolinamide acts as an efficient catalyst for asymmetric aldol reaction”, **G. D. Yadav** and S. Singh*
- A **poster presentation** in National Conference on Frontiers at the Chemistry-Allied Science Interface (FCASI) at Rajasthan University, Jaipur, India on **March 13-14, 2015**, entitled “Synthesis of 4-hydroxy-(*L*)-prolinamide as an efficient catalyst for the asymmetric direct aldol reaction”, **G. D. Yadav** and S. Singh*
- A **poster presentation** in International Conferences on Current Challenge in Drug Discovery Research. (CCDDR 2015) held at MNIT, Jaipur, India on **November 23-25, 2015**, entitled “Direct asymmetric aldol reaction of ketones with isatins catalyzed by (*S*)- prolinamide”, **G. D. Yadav** and S. Singh*

- A **poster presentation** in National Conference on Recent Advancement in Chemical Sciences (RAICS 2015) held at MNIT, Jaipur, **August 21-23, 2015** entitled “N-Arylprolinamide acts as an organocatalyst for direct asymmetric aldol reaction of acetone with isatin”, **G. D. Yadav** and S. Singh*
- Presented an **oral presentation** in National Conference on Chirality (NCC)-2013 at Department of Chemistry, M. S. University of Baroda, Vadodara, Gujarat, **18-19, December 2015**, entitled “Prolinamide derived from (S)- α -methylphenyl amine acts as an efficient catalyst for asymmetric aldol reaction”, **G. D. Yadav** and S. Singh*
- **Presented a poster** in the 20th ISCB conference at the University of Delhi, Delhi, India, **1-4 March 2014**, entitled “Ring-opening of epoxides with alcohol using $\text{Fe}(\text{Cp})_2\text{BF}_4$ as catalyst”, **G. D. Yadav** and S. Singh*
- **Presented a poster** in a one-day symposium on Emerging trends in translation research in India at Shiv Nadar University, India on **12th April, 2014**, entitled “Highly efficient regio-selective methanolysis of epoxide catalyzed $\text{Fe}(\text{Cp})_2\text{BF}_4$ ”, **G. D. Yadav** and S. Singh*
- A **poster presented** entitled National Conference on Mastering in Molecules and Materials (**M³-2014**) at NIT Krukshetra, Haryana, India on **16-17 Oct 2014**, “ $\text{Fe}(\text{Cp})_2\text{BF}_4$ as a Lewis acid catalyst for ring opening of epoxides with amines”, **G. D. Yadav** and S. Singh* (**Awarded as Best Poster Presentation**)
- **Presented a poster** in National Conference on Chirality (NCC)-2013 at Department of Chemistry, M. S. University of Baroda, Vadodara, Gujarat, India on **7-8 December 2013**, entitled “Synthesis and Characterization of Chiral Prolinamide modified with ionic liquid for asymmetric Aldol Reaction”, **G. D. Yadav** and S. Singh*
- Attended the Workshop on Electronic Structure, Atomistic and Statistical Modeling in Chemistry, Materials and Life Sciences at Department of Chemistry, University of Delhi, Royal Society of Chemistry London (North India Section) and Schrodinger GmbH, Bangalore, India on **Oct. 8-10, 2014**.
- Participated in the Workshop on Emerging Trends in Development of Drugs and Devices at Department of Chemistry, University of Delhi and three national Science Academies of India on **Jan. 21-23, 2013**.

Awards & Distinctions

- **Best Poster Award in the** national conference on OCSD-2016 at the Department of Chemistry, BITS, Pilani, Rajasthan on **29-30, August 2016.**
- **Best Poster Award in the** National Conference on Mastering in Molecules and Materials (**M³-2014**) at NIT Kurukshetra, Haryana, India on **16-17 Oct 2014,**
- **Senior Research Fellowship 2013**
- **Junior Research Fellowship 2011**

Public Service/University Service/Consulting Activity

Faculty Development Programme (FDP)/FIP/Refresher Course attended:

1. “NEP 2020 Orientation & Sensitization Programme” under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) organized by Mahatma Hansraj Malaviya Mission Teacher Training Centre (MH-MMTTC), Hansraj College, University of Delhi in collaboration with Mohanlal Sukhadia University, Udaipur, India, from 17th - 25th September 2025.
2. “NEP 2020 Orientation & Sensitization Programme” under Malaviya Mission Teacher Training Programme (MM-TTP) of the University Grants Commission (UGC) organized by Mahatma Hansraj Malaviya Mission Teacher Training Centre (MH-MMTTC), Hansraj College, University of Delhi in collaboration with Kalindi College, University of Delhi, from 3rd - 11th March 2025.
3. Guru Dakshta Faculty Induction Programme organized by UGC- Malviya Mission Teacher Training Centre, in collaboration with Iswar Saran P.G. College, Pragraj from 6th November- 5th December 2024.
4. Orientation program on “NEP Orientation & Sensitization Programme” organized by UGC- Malviya Mission Teacher Training Centre, in collaboration with SGTB Khalsa College, University of Delhi from 3rd September- 13th September 2024
5. Refresher Course on Chemistry conducted by the Centre for Professional Development in Higher Education (CPDHE), UGC-HRDC, University of Delhi, held from 12th July 2022 – 25th July 2022
6. One Week (Online) Interdisciplinary Faculty Development Programme on ‘Creation and development of MOOCs while managing online classes’ (24th August – 31st August 2021) organised by Keshav Mahavidyalaya, University of Delhi in collaboration with Mahatma Hansraj Faculty Development Centre, Hansraj College, University of Delhi

Professional Societies Memberships

Life member of Catalysis Society

Projects (Major Grants/Collaborations)
File No.- CS-11/2020/DST/WOS-A DST-WOS-A, Sanction (Rs) 42,13,240/- Status: Completed Title: Synthesis of Novel Hydroxamic and Hydroxamic-tagged Schiff base Complexes as anti-cancer drug and their application in Kinetic Resolution of Epoxides with Carbon dioxide Institution: Department of Chemistry, University of Delhi, New Delhi-12
Other Details



Dr. Geeta Devi Yadav

Department of Chemistry

Kalindi College