



**DEPARTMENT OF CHEMISTRY**  
**DYAL SINGH COLLEGE, UNIVERSITY OF DELHI**  
**FACULTY DETAIL**



Title	Dr.	First Name	VANDANA	Last Name																																
Designation	Associate Professor																																			
Address	10/XII, (GF) Sanjay Nagar, Gulabi Bagh, Delhi-7																																			
Phone No Office																																				
Residence Mobile	9811741104																																			
Email	Vandana.chemistry@dsc.du.ac.in																																			
Web-Page																																				
Educational Qualifications																																				
Degree	Institution				Year																															
Graduation	C.C.S.University Meerut				1999																															
Post-Graduation	C.C.S.University Meerut				2001																															
Ph.D	University of Delhi				2013																															
Career Profile																																				
<table border="1"><thead><tr><th>Name of the Institution</th><th>Position held with pay scale/PayBand with Grade pay</th><th>Ad- hoc/ Temporary/ Permanent</th><th>From</th><th>To</th></tr></thead><tbody><tr><td>Dyal Singh College</td><td>Lecturer 8000-13500</td><td>Ad- hoc</td><td>20/08/04</td><td>14/10/04</td></tr><tr><td>Swami Shradhanand</td><td>Lecturer 8000-13500</td><td>Ad- hoc</td><td>29/07/05</td><td>14/11/05</td></tr><tr><td>Dyal Singh College</td><td>GP 6000</td><td>Permanent Assistant Professor</td><td>14/11/2005</td><td>13/11/2011</td></tr><tr><td>Dyal Singh College</td><td>GP 7000</td><td>Permanent Assistant Professor</td><td>14/11/2011</td><td>13/11/2016</td></tr><tr><td>Dyal Singh College</td><td>GP 8000</td><td>Permanent Assistant Professor</td><td>14/11/2016</td><td>13/11/2019</td></tr></tbody></table>							Name of the Institution	Position held with pay scale/PayBand with Grade pay	Ad- hoc/ Temporary/ Permanent	From	To	Dyal Singh College	Lecturer 8000-13500	Ad- hoc	20/08/04	14/10/04	Swami Shradhanand	Lecturer 8000-13500	Ad- hoc	29/07/05	14/11/05	Dyal Singh College	GP 6000	Permanent Assistant Professor	14/11/2005	13/11/2011	Dyal Singh College	GP 7000	Permanent Assistant Professor	14/11/2011	13/11/2016	Dyal Singh College	GP 8000	Permanent Assistant Professor	14/11/2016	13/11/2019
Name of the Institution	Position held with pay scale/PayBand with Grade pay	Ad- hoc/ Temporary/ Permanent	From	To																																
Dyal Singh College	Lecturer 8000-13500	Ad- hoc	20/08/04	14/10/04																																
Swami Shradhanand	Lecturer 8000-13500	Ad- hoc	29/07/05	14/11/05																																
Dyal Singh College	GP 6000	Permanent Assistant Professor	14/11/2005	13/11/2011																																
Dyal Singh College	GP 7000	Permanent Assistant Professor	14/11/2011	13/11/2016																																
Dyal Singh College	GP 8000	Permanent Assistant Professor	14/11/2016	13/11/2019																																

Dyal Singh College	GP 8000	Permanent Associate Professor	14/11/2019	Till date	
<b>Administrative Assignments (From 1<sup>st</sup> July 2016 onwards) Attach Documents</b>					
2016-17					
<ul style="list-style-type: none"> <li>➤ Member of Governing Body at Dyal Singh College</li> <li>➤ Member of Building Construction Committee at Dyal Singh College</li> <li>➤ Convener of Science Time Table Committee at Dyal Singh College</li> </ul>					
2017-18					
<ul style="list-style-type: none"> <li>➤ Member of Antiraging committee</li> </ul>					
2018-19					
<ul style="list-style-type: none"> <li>➤ Convener of women advisory committee</li> </ul>					
2019-20					
<ul style="list-style-type: none"> <li>➤ Convener of women advisory committee</li> </ul>					
2021-22					
<ul style="list-style-type: none"> <li>➤ Co-Convenor “Chemistry Alumni Meet” dated 17 January 2022</li> <li>➤ Member NAAC Committee</li> <li>➤ Member of Alumni Meet</li> </ul>					
<b>Areas of Interest / Specialization</b>					
Organic Chemistry					
<b>Subjects Taught/ Attach Documents(time table odd/even semester)</b>					
Heterocyclics compounds-III, Organic chemistry, chemical energetics and fundamentals organic chemistry, Analytical Clin					
<b>Research Guidance/ Attach Documents</b>					
NA					
<b>Publications Profile (From 1<sup>st</sup> July 2016 onwards) Attach Documents with front page with impact factor</b>					
<b>Research Papers</b>					
<ul style="list-style-type: none"> <li>➤ Suresh Kumar and Vandana (2016): Detection of Heavy Metals in Steel Factory Effluent and Their Effect on Seed Germination of Applied and Pure Science and Agriculture 2(3),171-176</li> <li>➤ Atul Arya, Suresh Kumar, Amrita Suryavanshi, Dolly Kain, Vandana(2019) :Biosynthesis of metallic nanoparticles from me</li> <li>➤ Suresh Kumar, Amrita Suryavanshi and Vandana (2019) “Manav jati wanaspati vigyan evam uska mahetav” Vigyan Garima</li> <li>➤ Ahanger ABM, Kumar S., Kain D., Arya A., Vandana (2021)Nanoscale zeolitic imidazolate framework–8 encapsulates crud</li> <li>➤ Dolly Kain, Suresh Kumar*, Vandana, Amrita Suryavanshi and Atul Arya, (2021) Metabolic Characterization, Antioxidant (3): 211-216. P: 0975-1483</li> <li>➤ Synthesis, Spectroscopic characterization, Biological evaluation of 2 –carboxybenzaldehyde semicarbazone(L), and its Ni(II) Chemical, Biological and Physical Sciences</li> <li>➤ Ab Majeed Ahanger, Suresh Kumar, Atul Arya, Amrita Suryavanshi, Dolly Kain, and Vandana. (2022) Synthesis and Encapsulation against G+ and G– Drug-Resistant Bacteria ACS Omega</li> <li>➤ Dolly Kain , Suresh Kumar , Jamil Ahmed Khan , Vandana , Amrita Suryavanshi , Atul Arya (2022) Metabolic characterization chromatography–mass spectrometry analysis Journal of Drug research in Ayurvedic Sciences 2022 6: 72- 78.</li> </ul>					

- Dolly Kain , Suresh Kumar , Vandana , Amrita Suryavanshi , Atul Arya (2022) FTIR and GCMS analysis of Euphorbia hirta. *Journal of Analytical Sciences*, 12: 104-109

### Edited Book

- Biomedical and Environment (2016)

### Chapters

- (2016): Medicinal Plants, Campus Books International, Delhi.
- (2019): Ethnobotanical Survey: An approach to drug discovery. *Ethnobotany Vol 2*(Ed Suresh Kumar)
- (2021): Analytical Techniques for identification and characterization of Bioactive compounds extracted from Medicinal Plants.

### Book

- Suresh Kumar, Alok Kumar, Soumya Mukherjee and Vandana (2020): A Text Book of Analytical Techniques for Plants, New Age International.

### Conference Organization/ Presentations(From 1<sup>st</sup> July 2016 onwards)/ Attach Documents

2016-17

- Attended a National Workshop on Medicinal Botany and Drug Discovery 30<sup>th</sup> & 31<sup>st</sup> January, 2017
- Attended a Workshop on Preservation and Conservation of Knowledge Practices of North East For Sanitation, Cleanliness and Hygiene
- Invited as subject expert and judge by Bal Bharati School Rohini, for chemistry club held on 19 July 2017 .

2017-18

- Attended an International seminar on “Effects of Pollution on Human Health” organized by Department of chemistry at university of Delhi
- Participated and presented debate with two students entitled Scientific issues for Nation Development in National Science Day
- Invited As subject expert and judge for CBSE National level Science Exhibition by Mount Abu School Delhi, Dated 10 & 11 October 2017

2018-19

- Convenor of workshop on "Women's Safety and Security" organized by Women advisory Committee, Dyal Singh College, Delhi
- Member Lab Maintenance committee
- Attended One day Workshop on “COMPUTATIONAL CHEMISTRY” held on 2<sup>nd</sup> February 2019 at Dyal Singh College.
- Judge for poster presentation in National Seminar on “Recent trends of Research in Medicinal Plants and applied sciences” held on 22-26 April 2019, 25-28 June 2019, 26-30 August 2019
- Participated as subject expert for the preparation of chemistry dictionary, dated 22-26 April 2019, 25-28 June 2019, 26-30 August 2019
- Convenor of Seminar on “Recent Trends of Research in Sustainable Development” on 31<sup>st</sup> January 2019
- Organized an exhibition Cum march on Environment issues
- Swayam online refresher course, Sixteen weeks

2019-20

- Attended a National Seminar on “Ubharti Harit Prdhyogki tathaa Takniki Shabdawali” organized by Ramjas College, University of Delhi
- Attended a National conference on Recent trends and Advancements in chemical sciences held on 29-31 March 2019 at Conference Centre, Delhi
- Co-Chaired and Judged poster session in the National Seminar on Recent trends of Research in Medicinal Botany held on 4-6 April 2019
- Attended a National Seminar on “ Science with lens of scientific & technical terminology” organized by Shyam Lal College, Delhi

2020-2021

- Convenor: National workshop Organized a National workshop on the topic “WOMEN EMPOWERMENT AND THE ROLE OF SCIENCE”
- Attended an International webinar on 22 May 2021 on Biodiversity Day organized by Department of Environmental sciences, University of Delhi
- Attended an International webinar on 5 June 2021 on World Environment Day organized by Department of Environmental sciences, University of Delhi
- Attended a Webinar on Impact on Meditation on physical and mental health organized by Department of Botany ,Ramjas College, University of Delhi
- Attended a National Virtual Hands –on Workshop on Tools used in Biostatistics Research and Training organized by Department of Statistics, University of Delhi

2021-2022

- Convenor: National webinar topic “WOMEN Who inspire us” , Date: 10 January 2022
- Member of Chemical Society
- Member Lab Maintenance committee
- Attended one day International webinar organized by department of Botany ,Ramjas College dated 15 m
- Chairperson in a two days International e conference on Recent Advancements in chemical science: He
- Member in Organising committee in in a two days International e -conference on “Recent Advancement
- Attended one day National webinar on “Nanscale Study of Probiotic bacteria”organized by Department
- Attended one day National webinar on Feeding the 10 billion: A genomics prospective organized by De

#### Presentations in Seminars /conferences

- Oral Presentation in a International conference on Integrative chemistry, Biology and Translational

#### Invited Lectures/

- Invited for Lecture National Workshop on “Medicinal Botany and Drug Discovery”, Ramjas College University of Delhi, Del
- Invited for Lecture National Seminar on “Technical Terminology and chemistry” organized SSV COLLEGE HAPUR.Topic:
- Invited for Lecture National Conference on “Recent Trends in basic & Applied sciences for sustainable environment” Subha
- Invited for Lecture National Seminar on “Recent Trends of Research in Life Sciences” Ramjas College University of Delhi,
- Invited Lecture on topic“ Benzene” , CEC,UGC dated 05/12/2016
- Invited Lecture on topic“ Anthracene: Preparation, Structure and physical and chemical properties”, CEC,UGC dated 14/12/
- Invited Lecture on topic“ ALCOHOLS or ALKANOLS(IV): CHEMICAL REACTIVITY and MECHANISMS”, CEC,UGC
- Invited Lecture on topic“ Thiophene: Preparation, Structure and physical and chemical properties”, CEC,UGC dated 10/01/2
- Invited Lecture on topic“ Furan: Preparation, Structure and physical and chemical properties”, CEC,UGC dated 17/01/2017
- Invited Lecture on topic“ Indole: Preparation, Structure and physical and chemical properties”, CEC,UGC dated 18/01/2017
- Invited Lecture on topic“ Heterocyclics: Problems and Solutions”CEC-UGC dated 03/02/2017
- Invited Lecture on topic“ Nitrogen Containing Heterocycles and Non Aromatic Heterocycles”, CEC,UGC dated 17/02/201
- Invited Lecture on topic“ Saturated Heterocycle, CEC,UGC” dated 24/05/2017
- Invited Lecture on topic“ Saturated Heterocycles, CEC,UGC –II” dated 06/06/2017
- Invited Lecture on topic“ Derivatives of Pyridine and Indole derivatives”, CEC,UGC dated 30/06/2017
- Invited Lecture on topic“ IR Spectroscopy”, CEC,UGC dated 18/07/2017
- Invited Lecture on topic“ IR Spectroscopy-II”, CEC,UGC, dated 27/07/2017
- Invited Lecture on topic“ Ultra Violet Spectroscopy part-I”, CEC,UGC dated 30/08/17
- Invited Lecture on topic“ UV and NMR spectroscopy”, CEC,UGC dated 13/09/17
- Invited Lecture on topic“ NMR spectroscopy”, CEC,UGC dated 29/09/17
- Invited Lecture on topic“ Mass Spectroscopy Part –I”, CEC,UGC dated 15/12/17
- Invited Lecture on topic“ Mass Spectroscopy Part –II”, CEC,UGC: dated 29/12/17
- Invited Lecture on topic“ Mass Spectroscopy Part –III”, CEC,UGC dated 15/01/18
- Invited Lecture on topic“ Mass spectroscopy and Spectroscopy Problems”, CEC,UGC dated 08/02/18
- Invited Lecture on topic“ Spectroscopy Problems”, CEC,UGC dated 20/02/18
- Invited Lecture on topic“ Mis. Spectroscopy Problems”, CEC,UGC dated 19/03/18
- Invited Lecture on topic“ Carbohydrate Part-1”, CEC,UGC dated 15/05/18
- Invited Lecture on topic“ Carbohydrate Part-2”, CEC,UGC dated 01/06/18
- Invited Lecture on topic“ Carbohydrate Part-3”, CEC,UGC dated 06/06/18
- Invited Lecture on topic“ Qualitative analysis of organic compounds: part 1”, CEC,UGC dated 10/09/2021
- Invited Lecture on topic“ Qualitative analysis of organic compounds: part 2”, CEC,UGC dated 27/09/2021
- Invited Lecture on topic“ Qualitative analysis of organic compounds-part 3”, CEC,UGC dated 25/10/2021
- Invited Lecture on topic “Standard terminology in Chemistry”, CSTT, Ministry of Education”, dated 23/02/2022
- Invited Lecture on topic “Applications of UV-Visible Spectroscopy”, INM PG College Meerut dated 05/03/2022

#### Research Projects (Major Grants/Research Collaboration) (From 1<sup>st</sup> July 2016 onwards)/ Attach Documents

NA

#### Awards and Distinctions (From 1<sup>st</sup> July 2016 onwards) Attach Documents

NA

Association With Professional Bodies/ Attach Documents

2016-17

- Co-Convenor for Women Advisory Committee of College
- Subject Expert in CEC.UGC for previewing audio video lectures
- Member Lab Maintenance committee
- As a invited expert at Bal Bharati Public School for event “Green Home –Green Chemicals”.

2017-18

- Subject expert for CBSE National Level Science Exhibition held at Mount Abu School, Rohini, Delhi
- Member Lab Maintenance committee
- Subject Expert in CEC.UGC for previewing audio video lectures

2018-19

- Convener of women of advisory committee
- Interschool competition at Bal Bharati School Pusa Road Delhi
- As an expert in Springdales School Delhi for Teacher's assessment
- Member Lab Maintenance committee

2019-20

- Convenor of workshop on "Women's Safety and Security" organized by Women advisory Committee, Dyal Singh College, D
- Member Lab Maintenance committee
- Subject Expert in CEC.UGC for previewing audio video lectures

Other Activities like MOOCs/ Patents etc. (From 1<sup>st</sup> July 2016onwards)

NA

Signature of Faculty Member