




Faculty Details Proforma

Title	DR	First Name	DARSHAN	Last Name	Photograph	
Designation	Associate Professor					
Address	Daulat Ram College, Patel Marg 4					
Phone No. Office	011-27667863/9821382457					
Residence						
Mobile No.						
Email – ID	darshnachem2004@gmail.com , darshan@dr.du.ac.in , darshnachem2022@gmail.com					
Web Page						
Educational Qualification						
Degree	Institution			Year		
B.Sc (H) Chemistry	Ramjas College, DU			2001		
M.Sc	University of Delhi			2004		
Ph.D	G.G.S, Indraprastha University, (IPU)Dwarka			2010		
Career Profile						
<ul style="list-style-type: none"> • Assistant Professor, Daulat Ram College, 19.7.2005 to 29.8.2005. (Adhoc) • Assistant Professor, Daulat Ram College, 19.7.2005 to 18.10.2018.(Permanent) • Associate Professor, Daulat Ram College, 18.10.2018 till date • 						
Administrative Assignments						
Name of Institute		Designation		Status	Time period	Experience
Daulat Ram College (Students Union) in November 2006.		Organizing member of Students Advisory Board		done	2006	One year
Daulat Ram College		deputy superintendent for the theory exams 2007.		done	April/May 2007	Till exams
Daulat Ram College		Member of Secrecy		done	2008-2012	Every year
Daulat Ram College		Deputy superintendent of Chemistry Practical Annual Examination		done	2008-09	One year

Daulat Ram College	Observer in selection committee of adhoc interview	done	2008-2011	4 years
Daulat Ram College	Teacher Incharge of Life science deptt	done	2011-2012	One year
Delhi University	Tabulator of result	Done	2011	One year
Daulat Ram College	Teacher Incharge of Chemistry deptt	done	2011-2012	One year
Daulat Ram College	Convener Purchase committee	done	2011-2012	One year
Daulat Ram College	Member of Teaching Programme Committee TPC	done	2011-12	One year
Daulat Ram College	Member of prize committee	done	2011-12	One year
Daulat Ram College	Member of time table committee	done	2011-12	One year
Daulat Ram College	Junior teacher's representative of governing body of college	done	2012-13	One year
Daulat Ram College	Liaison officer	Working	2013 – till date	More than 7 years
Daulat Ram College	Executive member of DRCTA	Done	2012-13	One year
University of Delhi	Flying squad, DU	done	2012-13, 2013-14	Two years
Daulat Ram College	Liaison officer	Working	2013 – till date (2023)	More than 10 years
Daulat Ram college	Member of Teaching Programme Committee (TPC)	done	2014-15	One year
Daulat Ram college	Convener in SC/ST grievance committee during admission	done	2013-14	At the time of admission
Daulat Ram college	Deputy Superintendent of theory examination of category A (morning/evening) in the year 2015-16.	done	2015-16	During exam
Daulat Ram college	Deputy Superintendent of theory examination of category B (morning/evening) in the year 2015-16.	done	2015-16	During exam
Daulat Ram College	Member of screening committee for the applications of candidates for the post of assistant professors in physics, botany	done	2015	-
Daulat Ram College	Deputy Superintendent for LLB, M.Com, BA(H) humanities and social sciences and B.tech entrance examinations of University of Delhi held in the month of June 2016	done	June 2016	One month
All over India	Observer in several competitive exams of CBSE	done	Since 2011	-

Daulat Ram college	Coordinator of environment science examination	done	May 2017	On rotation basis
Students advisory board, DU	Organizing member	done	2017-18	One year
Daulat Ram College	Teacher Incharge (TIC)	done	2018-2019	One year
MPhil-PhD Admission Interview – department of education 2018.	observer	done	23-27 July 2018	At the time of interview
National conference, NSHE2018	Member organizing committee	done	March 2018	-
M-Phil- Ph.D admission interview 2019 conducted by the department of Education, DU on 21 and 22 nd August 2019.	Observer	done	21-22 august 2019	At the time of interview
M Phil admission interview 2019 conducted by the department of Education on September, 2019.	Observer	done	Sept 2019	At the time of interview
preview of videos programs in consortium of education communication (CEC-UGC) in 2018	Subject expert of chemistry for the	Doing since 2018	Till 2021	At the time of need
Staff advisor for chemical society	Staff advisor	done	1 April 2020- March 2021	One year (rotation basis)
“Vidyarthi Vigyan Manthan 2019” India’s largest science talent search for new India using digital devices, state level examination held on 19 January 2020 in Deshbandu college, DU	As subject evaluator	done	19 Jan 2021	At the time of exam
College grievance committee during admission in the 2020-21.	Representative of SC/ST	Done	Sep 2020 to Nov 2020	During UG admission
Course of committee of department of chemistry from December OBE 2020	Member	done	Nov-Dec 2020	2 months
Course of committee of department of chemistry from May/June OBE 2020	Member	done	May/June 2021	2 months
SC/ST/OBC grievance committee of Daulat Ram College from July 2021.	Coordinator	Since Jul 2021	Till date	continuing
Fine arts Society	Convener	done	April 2019- May 2021	2 years
ECA, DU for allotment of UG admission under ECA quota for NCC in Nov 2021.	member	done	Nov 2021	Till allotment
ECA	Convener	May 2021	April 2022	One year
Disaster management committee	Co-Convener	Oct 2020	April 2022	One year
Azadi ka Amrut Mahotsav	Nodal Officer	May 2021	April 2022	One year
Daulat Ram College	Convener of screening committee for the applications of candidates for the post of assistant professors in sanskrit	done	2021-2022	-

Daulat Ram College	Member of screening committee for the applications of candidates for the post of assistant professors in maths	done	2021	-
ECA	Convener	May 2022	May 2023	One year
“Vidyarthi Vigyan Manthan 2023” India’s largest science talent search for new India using digital devices, state level examination held on 8 January 2023 in Daulat Ram College, DU	As Delhi Coordinator	done	8 Jan 2023	At the time of exam
Chemical society	Staff advisor	May 2022	May 2023	One year
Deputy superintendent chemistry practical exams	Deputy superintendent	April/May 2023	-	One sem
Deputy superintendent chemistry practical exams	Deputy superintendent	Nov/DEC 2023	-	One sem
Deputy superintendent annual theory exams (Regular, cat A)	Deputy superintendent	March 2023	-	Till exams were concluded
Deputy superintendent annual theory exams (Regular, cat A)	Deputy superintendent	May/June 2023	-	Till exams were concluded
Convener of academic auditing report NAAC in oct 2023 to 2024.	Convener	Last four years	2018-2023	
Admission Committee (UG and PG) DRC	Convener/Nodal officer	2024-25	2025	1 year
Purchase Committee Convener	Convener	2024-25	2025	1 year

Areas of Interest / Specialization

Organic chemistry

Subjects Taught (in the last three years)

B.Sc(prog) Ist yr Chemistry Practical, Basic Concepts of Organic Chemistry
B.S (PROG) IIIrd YR, Chemistry practical, Biomolecules II

B.S (PROG) IIIrd YR, Theory, molecules of Life
B.S (PROG) IIIrd YR, Practical, molecules of Life
B.S (PROG) Ird YR, Practical, molecules of Life
B.Sc. (H) Chemistry III year (Organic chemistry), Theory, Nucleic Acids, Amino Acids, Proteins and Enzymes (DSC-14, Organic Chemistry- V)
B.Sc. (H) Chemistry I year (organic chemistry) practical, Basic Concepts and Aliphatic Hydrocarbons (DSC-2: Organic Chemistry-I)
B.Sc. (H) Chemistry I year (organic chemistry) Theory, Basic Concepts and Aliphatic Hydrocarbons (DSC-2: Organic Chemistry-I)
B.Sc(H) 2 year, GE-3, Basic concepts of organic chemistry

Research Guidance

NA

Publications Profile (in the last three years)

- Mild steel corrosion inhibition by nicotinamide as a green inhibitor: An electrochemical, thermodynamic and theoretical insight** N. Dheer, 1 A.K. Kalra, 2 **Darshan Singh**, 3 S.K. Ujjain, 4 P. Ahuja, 4 R. Kumar, 5 P. Singh, 6 N.K. Johar, 7 M.R. Singh⁸ * and R. Kanojia⁹ **, INTERNATIONAL JOURNAL OF CORROSION AND SCALE INHIBITION., 2023, 12, no. 4, 1645–1667. (ISSN *ISSN 2305-6894*)
- Future perspectives on QDs embedded Nano-fibrous Materials as High Capacity Sustainable Anode for Na-ion Batteries Technology**", Sunil Kumar, R.N. Rai, **Darshan Singh**, Anees A Ansari, Youngil Lee, Laxman Singh, has been accepted for publication in MRS Energy & Sustainability, volume 10, Issue 2, p.238-246, 2023. doi:10.1557/s43581-023-00067-x. (ISSN- **2329-2237**)
- Bio-genic Synthesis of Calcium coated Zinc oxide Nanoparticles from Beetroot extract and their photodegradation study on Methylene Blue and Rhodamine B**, **Darshan Singh**, Anuradha, Divya Mathur, Surendra kumar, balaram pani, Amar Kumar, Rajni Kanojia and Laxman Singh, Plant Nano Biology, 2023, vol 4, p.no.100031. ISSN-2773-1111.
- Photodegradation of Methylene blue and Rhodamine B using potato starch mediated biological zinc oxide nanoparticles and its calcium nanocomposites: Greener approach**, **Darshan Singh**^{1*}, Anuradha¹, Surendra Kumar², Amar Kumar³, Neelu Dheer⁴, M. Ramananda Singh⁵, Rajni Kanojia⁶, Sangeeta Kaul⁷ and Ishwar Prasad Sahu⁸, Applied Chemical engineering, 2023, vol 6(1). P. no 94-103. ISSN-2578-2010. <https://doi.org/10.24294/ace.v6i1.1998>
- Formation and Characterization of leaf waste into organic compost**, Sophayo Mahongnao, Pooja Sharma, **Darshan Singh**, Arif Ahamad, Pavitra V. Kumar, Pankaj kumar and Sarita Nanda, Environmental Science and Pollution research, vol 30(30) 2023, ISSN-0944-1344, 1614-7499.
- Synergistic effect of 3-carboxypyridine and potassium iodide on mild steel corrosion in acid medium: an insight into electrochemical and surface analysis**, Neelu Dheer, Amarpreet K. Kalra, **Darshan Singh**, Sanjeev Kumar Ujjain, Preety Ahuja, Gurmeet Singh, M. Ramananda Singh and Rajni Kanojia*, Portugaliae Electrochimica Acta 42 (2024) 59-70. ISSN-0872-1904. <https://doi.org/10.4152/pea.2023420104>.
- Agro waste mediated biosynthesis of zinc oxide nanoparticles and their antibacterial properties: waste to treat**, **Darshan Singh**^{1*}, Deepti Rawat², Amar Kumar³, Preeti Rawat⁴, Rahul Singhal⁵ and Laxman Singh^{6*}, Current nanomaterials, 2023, 8, 291-299. ISSN- 2405-4615, 2405-4623.
- “Photocatalytic properties of biologically synthesized uncoated and calcium coated ZnO nanoparticles using cucumber juice”**, **Darshan Singh***, Anuradha, Divya Mathur, Amar Kumar, Surendra Kumar, Balaram Pani, Rajni Kanojia and Jyotsna Ratan, Rasayan journal of chemistry, 2022, special issue, 95-102. ISSN no 0974-1496.
- APPLICATION OF PHOTOSENSITIZER-INCORPORATED INDIUM OXIDE NANOPARTICLES IN PHOTODYNAMIC THERAPY**, Indrajit Roy, Raju Tiwari, Mahendra Nath, Surinder P Singh, Surendra Kumar, **Darshan Singh** and Anuradha, Rasayan journal of chemistry, 2022, ISSN no 0974-1496, vol 15 (4), 2266-2872. ISSN no 0974-1496

10. **“Beta vulgaris mediated Bio-Inspired Copper Nanoparticle and its Application as Antibacterial Agent”** Darshan Singh, Deepti Rawat and Meenam Bhatia, Rasayan Journal of Chemistry, 2022, vol 15 (4), 2287-2291. ISSN no 0974-1496
11. **Physico-chemical characterization of green synthesized nanoparticles by UV-Visible spectroscopy**, Amar Kumar, Meenakshi, Nisha Saxena, Kumari Seema, Anshuman Srivastava, Jitendra Rajak, Darshan Singh, Laxman Singh, Current nanomaterials, 2023, 8, 102-109. ISSN-2405-4615, 2405-4623.

Conference Organization / Presentation (in the last three years)

- Organized inter college Quiz competitions on **theme: “Indian constitution ”** for the students of University of Delhi as convener Chemical Society on Jan 31, 2021 via quiz app.
- Organized annual fest of fine arts society **“Metanoia 21”** from 8th-16th April 21 under which 3 events like quilling workshop conducted on 16th April 2021, freedom of canvas on 14th April 2021, lyrical painting on 14th April 2021 as convener Fine Arts Society.
- Organized 3 days annual music fest 2021 **“Syncopation”** from 25-27th April 21 as co-convener of western music society of Daulat Ram College.
- Organized a plantation drive on 22 July 21 at 2 pm in Daulat Ram College as Convener of ECA society of Daulat Ram College in collaboration with Indrapastha Shakti and Harela Foundation.
- Organized a talk 30th July 21 at 12 pm on **“Contribution of Indian women in freedom”** as a part of Azadi ka Amrut Mahotsav as Convener of ECA society and nodal officer of azadi ka amrut mahotsav. Dr Madhu Jha was the resource person from Laxmibai College.
- Organized a Debate 30th July 21 at 3 pm on **“Role of Indian women in India’s freedom struggle: passive citizen or torchbearer”** as a part of Azadi ka Amrut Mahotsav and Convener of ECA society.
- Organized an orientation program for the students of the College as a Convener of ECA society on 2 August 2021.
- Organized a **“Rasth Gaan”** as a part of Azadi ka Amrut Mahotsav in which staff and students of Daulat Ram College participated as Convener of ECA society. (Mail)
- Organized a **“Independence day celebration”** on 13 Aug 2021 with our academic partners govt college Chouten, Barmer and govt girls college, Mangra Punjala, Jodhpur Rajasthan as a part of Azadi ka Amrut Mahotsav as Convener of ECA society. (Mail) blended mode, zoom app.
- Organized a **“Just a Minute”, a short video speech competition on the theme “contribution of women freedom fighters in India’s independence struggle”** on 18 Aug 2021 in collaboration with WDC, Pragati, DRC as a part of Azadi ka Amrut Mahotsav and Convener of ECA society. platform- google Meet
- Organized a national webinar **“Footprints of Indian women in science”** on 25 Aug 2021 as a Convener of chemistry dept. Resource person- Senior Prof. Rita Kakkar(Dean of science). platform- google Meet
- Organized a webinar on **“Fit India Movement and Azaadi ka Amrut Mahotsav”** on 2 September 2021 by Dr Gopal Singh Latwal, IITM, Faculty of the art of living and a QCI certified yoga professional as Nodal Officer Azadi ka Amrut Mahotsav. (Mail) platform- google Meet

- Organized a webinar on “**Azadi ke Nayak**” on 28 Aug 2021 by Prof Dhananjay Joshi, Dean, GGS IPU, Dwarka as a part of Azadi ka Amrut Mahotsav and Convener of ECA society. (Mail) platform- google Meet
- Organized a National Symposium on “**Translation in India**” on 8 September 2021 at 10 am onwards as a part of Azadi ka Amrut Mahotsav and Convener of ECA society. Resource persons – Prof. GJV Prasad (JNU), shri Priyadarshan (NDTV India), Shri Jitendra Bhatia (Author). (Mail), platform- google Meet
- Organized a webinar on “**Reopening of Educational Institution- Ensuring safety of students**” on 8 September 2021 at 3 p.m. as Coordinator of Disaster Management committee, DRC in collaboration with NIDM, Ministry of Home Affair, Govt of India. Resource persons – Dr Kumar Raka, CCDRR, NIDM, Dr Pallav Kumar, project officer, BSDMA. Platform – Cisco webex
- Organized a “**Gandhi Jayanti celebration**” on 1 October 2021 with our academic partners govt college Chouten, Barmer and govt girls college, Mangra Punjala, Jodhpur Rajasthan as a part of Azadi ka Amrut Mahotsav as Convener of ECA society on Zoom platform. (Mail).
- Organized a “**Slogan and Poetry competition**” on 1 October 2021 in Collaboration with Gandhi study circle on Gandhi Jayanti as a part of Azadi ka Amrut Mahotsav as Convener of ECA society on Google meet platform. (Mail).
- Organized a talk to celebrate **Gandhi Jayanti** on 2 October 2021 in Collaboration with Gandhi study circle. Resource persons- Mr Arvind Mohan, journalist and Mr Rajneesh Raj, director sinhata academy in a blended mode. (Mail).
- Organized a **Republic Day prog on 26 January 2022** with our academic partners govt college Chouten, Barmer and govt girls college, Mangra Punjala, Jodhpur Rajasthan as a part of Azadi ka Amrut Mahotsav as Convener of ECA society on Zoom platform. Prof Jagmohan Singh, nephew of Shaheed Bhagat Singh was the guest of honor and speaker of the day(Online).
- Organized a **Slam poetry event in collaboration with Imagism** on 24 Jan 2022 at 4 PM on Amalgamation of Lives as a part of Azadi ka Amrut Mahotsav as Convener of ECA society on Google meet platform.
- Organized a Deshbhakti Geet competition on 26 Jan 2022 at 3 PM on the eve of republic day as a part of Azadi ka Amrut Mahotsav as Convener of ECA society on Google meet platform.
- Organized a **webinar on IPR- career and future perspectives in collaboration with** ministry of commerce and industries on 12 April 2022. (Online)
- Organized a one-week Yuva Shakti Abhiyaan for the college students in collaboration with Indraprastha Shakti from 16-23 June 2022. (Online)
- Member of organising committee in **international conference “contribution of acharya Chandra ray as a chemist and freedom fighter**, on 2-3 august 2022 at conference hall, University of Delhi.
- Organized a session on “understanding workplace ergonomics to prevent musculoskeletal disorder” on 4 august 2022. Prof Uma Kumar, head rheumatologist, AIIMS, Delhi and her team were resource persons.
- Organized film and documentary screening as a part of **Independence day celebration” in collaboration with Sepia** on 8 and 10 Aug 2022, as Convener of ECA society, conference hall, Daulat Ram College, DU, Movies shown were: Chittagong and partition horror (14 August).

- Organized a “**Independence day celebration**” on 13 Aug 2022 as Convener of ECA, Rangshala, Daulat Ram College, DU, and kite flying event in sports ground.
- Organized a “Foundation stone laying ceremony ” on 26 Aug 2022 as Convener of ECA, Sadhbhavna Bhawan, Daulat Ram College, DU, where Hon’ble vice chancellor, DU, Prof Yogesh Singh, Dean of colleges, Prof Balaram Pani, Director south campus, Prof Shri Prakash Singh and Registrar Dr Vikas Gupta were guest of honor
- Organized a “**Gandhi Jayanti celebration**” in collaboration with Gandhi Jayanti Circle as Convener of ECA, on 30 September 2022. Movie screening on “ Nine days to rama” and 2 competitions: face painting and Mandala were also organized.
- Navratri Celebration was organized by ECA committee on 3 oct 2022, Sports ground and Rangshala, Daulat Ram College, DU.
- Organized a “**Atmanirbhar Bharat**” under the aegis of IQAC as a part of centenary celebration of DU and azadi ka amrut mahostav as Convener of ECA, on 29 November 2022. **Resource persons** were Prafulla Ketkar, Editor, organizer weekly, Shri gopal krishna Agrawal, National spokesperson, BJP and Shri anant Vijay, Associate editor, Dainik Jagran
- Organized State level camp of Vidyarthi Vigyan Manthan 2023” India’s largest science talent search for new India using digital devices for the selected school students of Delhi as an academic coordinator in the Daulat Ram College on 8 Jan 2023. 125 students participated in this camp.
- Organized inaugural talk on “**Nanotechnology in energy and sensing application**” as Convener of chemical society on 21 November. Prof Rajkishor sharma, Dean research was the resource person.
- Organized Environment conclave in collaboration with students for development (SFD) “**Shrishti Manthan**” as a Convener of ECA as a part of centenary celebration of DU on 23 January 2023 at 2 pm in conference hall. Prof VS Negi Ji (DU), Prof P K Joshi ji (JNU), Shri Ashish Chauhan ji (National organizing secretary ABVP,) Shri Rahul Gaur (National convener SFD). Eco club of SSN, Hansraj, Hindu and DRC college were awarded best societies working in this direction.
- Organized Chemphoria “annual department fest “**Quanta 23**” as Convener of chemical society on 2 Feb 2023, Dr Deepak Handa, former head, CSFL, CBI was resource person and delivered a talk on “**Impact of white collar crime in society**” followed by students activities poster making, paper presentation, trash to treasure in conference hall and Rangshala.
- Organized a **webinar on Intellectual property awareness** prog in collaboration with ministry of commerce and industries on 25 February 2023. (Online)
- Organized SDP for students of DRC on “**Prevention of diseases by natural remedies and identification of active molecules**” from 20-27 Dec 2022 in collaboration with Botany Deptt.
- Resource person on “**diabetes and its natural treatment** ” in one week in house skill development prog organized by the department of chemistry and Botany , Daulat Ram College from 20-27 Dec 2022 Topic:- “**Prevention of diseases by natural remedies and identification of active molecules**”. (mail)

- Organized a talk on “Awareness session on workplace ergonomics, Conference hall, Daulat Ram College, 4 august 2022.

Research Projects (Major Grants/Research Collaboration)

- **Photocatalytic properties of metal and metal oxide nanoparticles and their efficacy in prevention of bacterial growth.** Navdhara Project DRC, 2023-24, Rs 75000/-.

Awards and Distinctions

NA

Association with Professional Bodies

VIBHA LIFE TIME MEMBER

Other Activities (in last three years)