




University of Delhi)



# Shyam Lal College

NAAC A++

## Faculty Profile

<b>Title</b>	Dr.	<b>First Name</b>	Ankit	<b>Last Name</b>	Mittal	<b>Photograph</b> 
<b>Designation</b>	Assistant Professor					
<b>Department</b>	Department of Chemistry					
<b>Address</b>	H.No. 230/2, W.No. 10, Civil Road, Meham Chowk, Gohana, Sonipat, Haryana-131301					
<b>Email</b>	<a href="mailto:ankit.mittal@shyamlal.du.ac.in">ankit.mittal@shyamlal.du.ac.in</a>					
<b>Web-Page</b>						

### Educational Qualification

Degree	Subject	University/ College/Institution	Year
B.Sc. (Honours)	Chemistry	Kirori Mal College, University of Delhi	2011-2014
M.Sc.	Physical Chemistry	Kirori Mal College, University of Delhi	2014-2016
Ph.D.	Computational Chemistry	Department of Chemistry, University of Delhi	2017-2022

### Experience

	Name of the University/College/ Institute/Organisation	Designation & Status (Permanent/Ad-hoc)	From	To	Effective time period
Teaching	Department of Chemistry, University of Delhi, Delhi	Guest Faculty	12-01-2022	21-03-2022	2 Months
	Department of Chemistry, GLA University, Mathura, Uttar Pradesh	Assistant Professor	23-03-2022	01-06-2023	1 Year 2 Months
	Department of Chemistry, Shyam Lal College, University of Delhi, Delhi	Assistant Professor	02-06-2023	At present	
Research/ Corporate					
Consultancy					

### Teaching-Learning Process (Academic Year 2022-23 Onwards)

Are You using ICT (LMS, E-Resources)?	If yes, please give the details below:	
	Name	Total Numbers
E-Resources		
Techniques and Platforms		

### Career Advancement and Contribution to College Corporate Life (2022-23 Onwards)

	Name of the Committee/ Centre/ Society/ Cell	Designation	From	To
Convenor/Member of Committees	Waste Management Committee in Swachhta Action Plan (SAP)	Convenor		
	Training and Placement Cell	Member		
	Website committee	Member		
	Student Union advisory committee	Member		
Any Other Administrative Responsibility (Bursar, Coordinator, Superintendent etc.)				

#### Areas of Interest/Specialisation

S.No.	Areas of Interest/ Specialisation
1	Physical Chemistry
2	Computational Chemistry

#### Subjects Taught

S.No.	Subject	S.No.	Subject
1	Quantum Chemistry	5	Surface Chemistry
2	Physical Spectroscopic Techniques	6	Chemical Thermodynamics
3	Electrochemistry	7	Solid State
4	Chemical Kinetics and Catalysis	8	Chemical and Ionic Equilibria

#### Publications: Citation Index in Scopus/Web of Science or Pub Med/ Indian Citation Index

Title of Paper	Name of the Author	Title of the Journal	Year of Publication	Citation Index	h-Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self-citations	Impact factor, if any
A DFT study of the conformational and electronic properties of echinatin, a retrochalcone, and its anion in the gas phase and aqueous solution	Ankit Mittal, S. Premila Devi & Rita Kakkar	Structural Chemistry	2020			Computational Chemistry Laboratory, Department of Chemistry, University of Delhi, Delhi, India		1.7
The effect of solvent polarity on the antioxidant potential of echinatin, a	Ankit Mittal & Rita Kakkar	Free Radical Research	2020			Computational Chemistry Laboratory, Department of Chemistry, University of		3.3

retrochalcone, toward various ROS: A DFT thermodynamic study						Delhi, Delhi, India		
Computational studies on reactions of some organic azides with C-H bonds	Shougaijam Premila Devi, Ankit Mittal & Rita Kakkar	ChemistrySelect	2021			Computational Chemistry Laboratory, Department of Chemistry, University of Delhi, Delhi, India		2.1
A theoretical assessment of the structural and electronic features of some retrochalcones	Ankit Mittal & Rita Kakkar	International Journal of Quantum Chemistry	2021			Computational Chemistry Laboratory, Department of Chemistry, University of Delhi, Delhi, India		2.2
The antioxidant potential of retrochalcones isolated from liquorice root: A comparative DFT study	Ankit Mittal & Rita Kakkar	Phytochemistry	2021			Computational Chemistry Laboratory, Department of Chemistry, University of Delhi, Delhi, India		3.8
Synthetic methods and biological applications of retrochalcones isolated from the root of Glycyrrhiza species: A review	Ankit Mittal & Rita Kakkar	Results in Chemistry	2021			Computational Chemistry Laboratory, Department of Chemistry, University of Delhi, Delhi, India		2.3
Recent advances in the antioxidant activity and mechanisms of chalcone derivatives: A computational review	Ankit Mittal*, Vinod Kumar Vashistha and Dipak Kumar Das	Free Radical Research	2022			Department of Chemistry, Institute of Applied Sciences and Humanities, GLA University, Mathura, India		3.3
Free radical scavenging activity of gallic acid	Ankit Mittal*, Vinod Kumar	Free Radical Research	2022			Department of Chemistry, Institute of Applied Sciences		3.3

toward various reactive oxygen, nitrogen, and sulfur species: A DFT approach	Vashistha and Dipak Kumar Das					and Humanities, GLA University, Mathura, India		
G4 ligands and their interaction diversity with G-quadruplex	Vinod Kumar Vashistha, Ankit Mittal, and et al.	Russian Journal of Bioorganic Chemistry	2023			Department of Chemistry, Shyam Lal College, University of Delhi, Delhi, India		1
Enantiomeric separation of ketoprofen using Frovatriptan as a chiral derivatizing reagent	Vinod Kumar Vashistha*, Renu Bala, Rajasekhar VSR Pullabhotla and Ankit Mittal	Separation Science Plus	2023			Department of Chemistry, Shyam Lal College, University of Delhi, Delhi, India		1.1
Development of a liquid chromatographic method for enantioseparation of Eflornithine using (S)- $\alpha$ -ethyl benzylamine as a chiral derivatizing agent	Vinod Kumar Vashistha*, Renu Bala, Rajasekhar VSR Pullabhotla and Ankit Mittal	Separation Science and Technology	2023			Department of Chemistry, Shyam Lal College, University of Delhi, Delhi, India		2.8
Synthesis, characterization and application of Cr <sub>2</sub> O <sub>3</sub> nanoparticles as an efficient antibacterial agent	Vinod Kumar Vashistha*, Renu Bala, Ankit Mittal, and et al.	Journal of the Indian Chemical Society	2023			Department of Chemistry, Shyam Lal College, University of Delhi, Delhi, India		1.3
Triazole Moieties as Potent Drug Molecules: Synthetic	Vinod Kumar Vashistha*, Ankit Mittal,	Russian Journal of Bioorganic	2023			Department of Chemistry, Shyam Lal College, University of		1

Approaches and Application as Promising Candidates as Anticancer Agents (A Review)	Renu Bala and Rajasekhar VSR Pullabhotla	Chemistry				Delhi, Delhi, India		
Nanocomposite based Electrochemical Sensors for Determination of Some Biologically Important Compounds: A Review	Vinod Kumar Vashistha*, Renu Bala, Ankit Mittal, and et al.	Analytical and Bioanalytical Electrochemistry	2023			Department of Chemistry, Institute of Applied Sciences and Humanities, GLA University, Mathura, India		1.35
Transition metal nanoparticles as promising antimicrobial agents	Vinod Kumar Vashistha*, Renu Bala, Dipak Kumar Das, Ankit Mittal and Rajasekhar VSR Pullabhotla	Surface Review and Letters	2023			Department of Chemistry, Shyam Lal College, University of Delhi, Delhi, India		1.1
Synthesis, characterization, electrochemical and antibacterial studies of MN4-type macrocyclic complexes of Ni(II)	Vinod Kumar Vashistha*, Ankit Mittal, Renu Bala, and et al.	Revue Roumaine de Chimie	2023			Department of Chemistry, Shyam Lal College, University of Delhi, Delhi, India		0.5
Stereoselective analysis and enantioseparation of isoproterenol in spiked human plasma	Vinod Kumar Vashistha*, Renu Bala, Ankit Mittal, and et al.	Chemical Papers	2023			Department of Chemistry, Shyam Lal College, University of Delhi, Delhi, India		2.2

Recent Advances in the Pharmacological Activities of Glycyrrhizin, Glycyrrhetic Acid and Their Analogues	Ankit Mittal*, Mudita Nagpal, Vinod Kumar Vashistha	Revista Brasileira de Farmacognosia	2023			Department of Chemistry, Shyam Lal College, University of Delhi, Delhi, India		1.6
Stereoselective analysis of chiral pesticides: a review	Vinod Kumar Vashistha*, Sonika Sethi, Ankit Mittal, and et al.	Environ Monit Assess	2024			Department of Chemistry, Shyam Lal College, University of Delhi, Delhi, India		3
Recent advances in the antioxidant activity of metal-curcumin complexes: A combined computational and experimental review	Ankit Mittal*, Mudita Nagpal, Vinod Kumar Vashistha, and et al.	Free Radical Research	2024			Department of Chemistry, Shyam Lal College, University of Delhi, Delhi, India		3.3
The electronic, structural and nonlinear optical properties of licochalcone L in the aqueous solution and gaseous phase: A DFT study	Ankit Mittal*, Mudita Nagpal, Varun Chahal and Vinod Kumar Vashistha	Turkish Computational and Theoretical Chemistry	2024			Department of Chemistry, Shyam Lal College, University of Delhi, Delhi, India		

**Books and Chapters in Edited Volumes/Books published, and papers in National /International conference Proceeding per teacher during the Year**

Title of Book/Paper/ Book Chapter	Publisher	National/International	Year

**Conference/ Seminar/ Symposium/ Workshop/ Presentation**

Sr. No.	National/ International/state	Topic	Presentation/Attended /Resource Person	Date	Duration	
1	International	"A Three Days International	Paper Presentation	03-03-	3 Days	Co nfe ren ces

		Conference on Recent Developments in Chemistry (RDC-2021)” organized by Department of Chemistry, National Institute of Technology Durgapur		2021 to 05-03-2021	
2	International	"57th Annual Convention of Chemists, 2020 & International Conference on Recent Trends in Chemical Sciences (RTCS-2020)” organized by Indian Chemical Society	Paper Presentation	26-12-2020 to 29-12-2020	4 Days
3	International	"Young Scientists’ Conference (YSC)”, as a part of India International Science Festival (IISF-2020), organized by the Ministry of Science and Technology; Ministry of Earth Sciences and Ministry of Health and Family Welfare, Govt. of India in collaboration with Vijnana Bharati (VIBHA)	Paper Presentation	22-12-2020 to 25-12-2020	4 Days
4	International	"JTA Multidisciplinary International Conference (JTACON-2020)” at Jamia Millia Islamia, New Delhi	Paper Presentation	16-02-2020 to 18-02-2020	3 Days
5	National	"National Conference on Relationship between Chemical Sciences and Society (RCSS-2020)” at Shivaji College, University of Delhi	Paper Presentation	16-01-2020 to 17-01-2020	2 Days
6	National	"2nd National Conference on Emerging Trends and Future Challenges in Chemical Sciences (ETFC-2020)”	Paper Presentation	10-01-2020 to 11-01-2020	2 Days

		organized by Department of Chemistry, Kirori Mal College, University of Delhi at Conference Centre, University of Delhi			
7	International	"Frontiers in Chemical Sciences" at IIT Guwahati	Paper Presentation	06-12-2018 to 08-12-2018	3 Days
8	National	One-week National e-Workshop on "Hands-On Training & Practices in Computational Chemistry" organized by J. C. Bose University of Science and Technology, YMCA, Faridabad	Attended	23-11-2020 to 27-11-2020	5 Days
9	National	One Week National Level Online Short-Term Training Program (E-STTP) on "Research Methodology" organized by the Faculty of Humanities and Science, Adayalampattu Phase II campus, Dr. MGR Educational and Research Institute, Tamilnadu	Attended	20-07-2020 to 27-07-2020	8 Days
10	National	National Workshop on Indian Contribution to Chemical Sciences (ICCS-2022) jointly organized by Department of Chemistry, University of Delhi, Vidya Bharti Uchcha Shiksha Sansthan & Samvit Research Foundation	Attended	06-05-2022 to 07-05-2022	2 Days
11	International	2nd International Conference on Nano-Architectures for Chemical, Biological	Attended	25-11-2022 to 27-11-	3 Days



		and Therapeutic Applications (NCBTA-2022)” organized by Department of Chemistry, GLA University, Mathura in collaboration with Jadavpur University, Kolkata and University of Zululand, South Africa		2022		
12	International	"7th International Conference on Nanoscience and Nanotechnology (ICONN-2023)” organized by Department of Physics and Nanotechnology, SRM Institute of Science and Technology (SRMIST)	Paper Presentation	27-03-2023 to 29-03-2023	3 Days	
13	International	3rd International Conference on Nano-Architectures for Chemical, Biological and Therapeutic Applications (NCBTA-2023)” organized by Department of Chemistry, GLA University, Mathura in collaboration with Jadavpur University, Kolkata and University of Zululand, South Africa, Pittsburg State University, USA	Paper Presentation	24-11-2023 to 26-11-2023	3 Days	
14	National	“Teachers Summit, National Education Policy (NEP) 2020: Role of a Teacher” organized by Vidya Bharati Uchcha Shiksha Sansthan held at AICTE Auditorium, New Delhi	Attended	04-11-2023	1 Day	<i>Workshops/Seminars/Webinars</i>
15	National	“Online Workshops on NEP-2020: Training/Orientation of Faculty on the Indian Knowledge System” organized by UGC–	Attended	04-01-2024	1 Day	

		Human Resource Development Centre, Gujarat University, Ahmedabad			
16	National	Webinar on “Wetland Restoration for Sustainability and Global Well-being” organized by Environmental Information, Awareness, Capacity Building, and Livelihood Programme (EIACP), ICMR-National Institute of Occupational Health (NIOH), sponsored by Ministry of Environment, Forests and Climate Change, Government of India	Attended	02-02-2024	1 Day
17	National	Webinar on National Education Policy 2020 on the theme “Internship/Apprenticeship Embedded Degree Program” organized by Centre for Professional Development in Higher Education (CPDHE), UGC - Malaviya Mission Teacher Training Centre (MMTTC), University of Delhi in collaboration with Daulat Ram College	Attended	03-02-2024	1 Day

**Research Projects/ Innovation Projects (Major Grants/Research Collaboration)**

S.No.	Title of the Project	Funding Agency	Status/Output

**Research Guidance (Ph. D./ M. Phil.)**

	No. of Ph.D. Students	No. of M.Phil. Students
Awarded		
Submitted		
Under Progress		

**Fellowships/Awards /Distinctions/Recognitions**

Year of Award	Name of the Fellowship/Award/	Designation	Name of the Academic	International /National/ State

	Distinction/ Recognition		Bodies /Association	
2017-2021	UGC NET-JRF	Junior Research Fellow and Senior Research Fellow	UGC	National
<b>Incentive to the teachers who receive recognition/awards</b>				
State		National		International
<b>Association with the Professional Bodies</b>				
	Name of the Organisation		Year	
Membership				
Any Other				
<b>Development of E-Learning Delivery Process/Material</b>				
S.No.	Title of the Module		Recognized by/Submitted at/ Delivered at any government setup	
<b>Refresher/ Orientation Programme/ FDP / Other Specialised Courses</b>				
S.No.	Topic	Name of the Organiser	Place	Duration and Year
1	Nanomaterials: Emerging Tools to Facilitate the World	Department of Chemistry, GLA University, Mathura	Virtual	17-10-2022 to 22-10-2022
2	Faculty Induction Programme- Prichay	Academic Success Centre, GLA University, Mathura	GLA University, Mathura	20-07-2022 to 13-08-2022
3	Faculty Induction/Orientation Programme	Teaching Learning Centre, Ramanujan College, University of Delhi	Virtual	22-06-2023 to 21-07-2023
4	Two-week Interdisciplinary Refresher Course on “Advanced Research Methodology”	Teaching Learning Centre, Ramanujan College, University of Delhi in collaboration with Gokul Das Hindu Girls' College (Affiliated to Agra University) Moradabad and Hindu College (M. J. P. Rohilkhand University, Bareilly) Moradabad	Virtual	22-08-2023 to 05-09-2023
5	“Pedagogical Imperatives for Creating Quality Learning Environment for All: Faculty Induction Programme for Teachers in Higher Education”	University of Delhi	University Sports Complex, Delhi	01-12-2023
6	One-week short term course on “Material Characterization Techniques”	Applied Science Department, National Institute of Technical Teachers' Training & Research (NITTTR), Chandigarh (Ministry of Education, Govt. of India)	NITTTR, Chandigarh	04-12-2023 to 08-12-2023
7	One Week Online Faculty	Internal Quality Assurance	Virtual	11-12-2023 to

	Development Programme on “Recent Advances in Basic and Applied Sciences”	Cell (IQAC – SLC) along with Department of Physics and Chemistry SLC (University of Delhi) Shyam Lal College in collaboration with Mahatma Hansraj Malaviya Mission Teacher Training Centre (MH-MMTTC), Hansraj College		16-12-2023
8	Online Faculty Development Programme on “NEP Orientation & Sensitization Programme”	Centre for Professional Development in Higher Education (CPDHE), UGC - Malaviya Mission Teacher Training Centre (MMTTC), University of Delhi	Virtual	19-12-2023 to 29-12-2023

### Declaration

I do hereby solemnly declare that the information given and the statements made by me are correct and true to the best of my knowledge.



Dr. Ankit Mittal

**Signature with Full Name**