


CURRICULUM VITAE

Name	Dr. Ritu Gupta	
Designation	ASSOCIATE PROFESSOR	
Address	Department of Chemistry Daulat Ram College, University of Delhi	
Residence Mobile		
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Educational Qualifications		
Degree	Institution	Year
Ph.D.	University of Delhi	2001
M.Sc Chemistry	Hindu College, University of Delhi	1996-97
B.Sc Chemistry	Hindu College, University of Delhi	1994-95
Career Profile		
<ul style="list-style-type: none"> • Worked as an Ad-hoc Lecturer in DDUC, University of Delhi from August 2000 to 2002. • Worked as an Ad-hoc lecturer in Department of Chemistry, University of Delhi from August 2002 to April 2004. • Worked as an Ad-hoc Lecturer in Department of Chemistry, University of Delhi from August 2002 to April 2004. • Worked as an Ad-hoc Lecturer in Hansraj College, University of Delhi from August 2004 to August 2005. • Assistant professor in the Chemistry department of Daulat Ram College, University of Delhi since August , 2005. 		
Administrative Assignments		
<ul style="list-style-type: none"> • Worked as Deputy Superintendent for Chemistry Practical Exam in the year 2010-2011. • Worked as Teacher In charge of Chemistry Deptt in year 2012-13. • Junior teacher representative member of Governing Body (2011-12). • Co-ordinator of Foundation Course / Applied Course (FYUP) evaluation work in Daulat Ram College (Dec 2013). • Worked as Co-ordinator for Environmental Science Course in year 2018-19 In Daulat Ram College • Worked as Teacher In charge of Chemistry Deptt in year 2019-20 & 2020-21. • Working as a member of NPS sub committee • Worked as Deputy Superintendent for Theory Exam in the year 2021-22 in Daulat Ram College 		
Areas of Interest / Specialization		
Physical Chemistry		
Subjects Taught		

Chemistry, science and life, Environmental studies

Research Guidance

1. Supervised a group of ten undergraduate students for innovation project DR-305: "Green method of defluoridation and estimation of fluoride ion from ground water and various other samples" in the year 2015.
2. Supervised a group of ten undergraduate students for innovation project DR-303 "Development of New Fluorescent Silica Nanoparticles for Rapid Detection of Clinical Pathogen" in the year 2015.

Publications

1. **Antibacterial properties of silver nanoparticles synthesized from Litchi Chinensis fruit peel extract**, Darshan Singh and **Ritugupta**, *International journal of biotechnology and biomedical science (IJBS)*, volume 1, pp 6-8 January-june 2016, eISSN: 2454-7808, pISSN: 2454-4582
2. **Fluoride ion in ground water of Delhi: a review on the status and solution to the problem**, **Ritugupta**, Darshan Singh, Saritasingh, *Journal of Basic and Applied Engineering Research (JBAER)*, vol.3 (issue 1) p.p. 48-50 2016 Online ISSN: (2350-0255); (Print ISSN: 2350-0077)
3. **An economical and ecofriendly regioselective bromination of acetanilides using potassium bromide and ceric ammonium nitrate in polyethylene glycol** **Ritu Gupta**; *Lata Heterocyclic Letters* (2012), 2(3), 297-300. Issn/eissn: 2231-3087 / 2230-9632,
4. **Theoretical studies on the mechanism of radioprotection by Hoechst 33258 derivatives** Kakkar, Rita; **Garg, Ritu**; Suruchi; *Journal of Molecular Structure: THEOCHEM* (2004), 668(2-3), 243-248.,
5. **C₃H₄: Kinetics of interconversion of isomers** By Kakkar, Rita; Padhi, Bhabani S.; **Garg, Ritu**, *Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry* (2003), 42B(5), 1123-1131.
6. **Theoretical study of the effect of radiation on thymine** Kakkar, Rita; **Garg, Ritu**, *Journal of Molecular Structure: THEOCHEM* (2003), 620(2-3), 139-147.
7. **C₃H₄: density functional (DFT) study of structures and stabilities of isomers** Kakkar, Rita; **Garg, Ritu**; Chadha, Preeti *Journal of Molecular Structure: THEOCHEM* (2002), 617, 141-147.
8. **Structures of some Hoechst analogues in gas phase and in aqueous solution** Kakkar, Rita; **Garg, Ritu**, *Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry* (2002), 41B(9), 1929- 1936.

9. **Towards understanding the molecular recognition process in Hoechst-DNA complexes** Kakkar, **Rita; Garg**, Ritu; Suruchi, *Journal of Molecular Structure: THEOCHEM* (2002), 584, 37-44.

10. **Theoretical study of tautomeric structures and fluorescence spectra of Hoechst 33258** Kakkar, Rita; **Garg, Ritu**; Suruchi, *Journal of Molecular Structure: THEOCHEM* (2002), 579, 109-113.

Books Published

- Published book on "Elements of environmental studies" in 2018 by Jeevan sons publication
- Published book on "Instrumental analysis for undergraduates" in 2007 by shree kala prakashan
- Published book on "Introduction to basic laboratory techniques" in 2009 by shree kala prakashan
- Published a book on foundation course (FYUP) entitled "Science and Life" in the year 2013.)

Conference Organization/ Presentations

- Webinar on Ayurgenomics (organized) Daulat Ram College 22st October 2021
 - Online master class on "python as an important tool for data analysis"(organized)1st -10th November2021
- E faculty development program (attended) Daulat Ram College 20 -23rd July 2020
 - In house SDP on Enhancing learning through ICT tools.(organized) Daulat Ram College 17-19th August 2020
 - National webinar on learning from the corona pandemic(attended) 24-25th September 2020 Miranda House University of Delhi
- In house SDP on Enhancing learning through ICT tools.(organized) Daulat Ram College 17-19th December 2020
- oral presentation in National conference on Innovation in sciences in emerging challenges in health and environment ,Daulat Ram College 20 March 2018
- oral presentation in National conference on Recent advances in chemical sciences towards green and sustainable environment ; Swachh Bharat Abhiyan Perspective ,Aditi Mahavidyalaya 10and 11 October 2017

- oral presentation in National conference on Environmental Sustainability in waste water remediation :Current status and future prospects , Venkateswara college ,D.U 19 & 20 January 2017
- Participated in Indo UK Scoping workshop on Development of Rural Biorefineries in India from waste to wealth , Deptt of chemistry D.U., 20 Feb2017
- Participated in National conference on Combating Industrial Pollution For Sustainable Environment –A Fusion of industrial and Scientific Efforts ,Gargi College D.U.September 22-23,2016
- Resource person in house skill development certificate course in Daulat Ram College,11 July 2016
- Oral presentation and poster presentation in National conference on Nanoscience Opportunities and Challenges,Maitreyi College, DU 19-20 Feb 2016
- Oral presentation and poster presentation in International conference on Public Health issues,Challenges,Opportunities,Prevention,Awareness,Daulat Ram College ,DU 15-16 Jan 2016
- Poster presentation in RSC workshop on chemistry for tomorrow's world ,GCNC,DU 2-3 December 2 015
- Oral presentation on “various test to find out adulteration in various food items”Skill development prog conducted by deptt. of Chemistry, Daulat Ram College in June 2015
- Participated in National seminar on Innovative ,Advance Research in Bio-Medical and Environmental Dynamics ,Dyal Singh College,DU 9-10 October 2015
- Participated in National symposium on chemistry and environment,DeenDayalUpadhyaya College,DU 22-23 March 2013
- Attended workshop on foundation course for Science and Life 21-22 June
- 2013
- Presented Paper on “green Chemistry” CPDHE, Delhi University.
- Refresher Course organized by CPDHE, Delhi University 2012 attended a workshop on Techniques in Genetics &Genoicsorganized by Zoology Department,Daulat Ram College in Feb 2012.
- Participated as Resource person in Workshop “Recent Trends in Green Chemistry organized by Chemistry department,Daulat Ram College in 2012.

- Attended a Workshop on Interface between Chemistry and Environment organized by Ramjas College in Dec 2012.
- Presented Paper on Chemicals in Cosmetics CPDHE, Delhi University.
- Refresher Course organized by CPDHE, Delhi University 2011.
- Presented Paper on “Neutraceuticals “CPDHE, Delhi University.
- Attended Training Work shop on “Green Chemistry organisedby Department of Chemistry, Delhi University, Dec 2011.
- Attended Workshop on “Computational chemistry for chemistry educators “organized by Miranda House in 2011.
- Attended ILLL workshop for Capacity building of Delhi University Faculty DRC2010.
- Participated in one day Seminar on Second year Chemistry course of the restructured B.Sc. programme held in Department of Chemistry, Delhi University Nov 2006.
- Orientation Course organized by CPDHE, Delhi University since 2006.
- Participated in the Symposium on “Emerging Areas in Chemistry” held in Hindu College in Dec 2005.
- Attended training Course on MS Excel 2004 organized by Computer Centre Delhi University.
- Participated in workshop on “Maintenance of Laboratory instruments held at ShaheedRajguru College of Applied Science for Women in Oct 2003.
- Attended Seminar on Environmental pollution & Public health held in DDUC in 2002.

Research Projects (Major Grants/Research Collaboration)

Title of the Project	Name of the funding Agency	Duration	Remarks
<ul style="list-style-type: none"> • Delhi University Innovation project DR-305 on “Green method of defluoridation and estimation of fluoride ion from ground water and various other samples” in the year 2015-16. • Delhi University Innovation project DR-303 on “Development of New Fluorescent Silica Nanoparticles for Rapid Detection of Clinical 	University Of Delhi	One year	

Pathogen” in the year 2015-16			
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Signature
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