



# Miranda House

## UNIVERSITY OF DELHI

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**Name:** Dr. Ritu Gupta

**Department:** Mathematics

**Current Designation:** Associate Professor

**Email id:** ritu.gupta@mirandahouse.ac.in

### **Academic Qualifications:**

- Ph.D. Department of Mathematics, 2009, University of Delhi.
- M.Phil Department of Mathematics, 1999, University of Delhi
- Qualified Joint CSIR-UGC National Eligibility test (NET) Examination for Junior Research Fellowship and Eligibility for Lecturership held in June 1997.
- M.Sc. Physics, 1996, Miranda House.
- B.Sc. (Honours) Mathematics, 1994, Miranda House.

### **Field of Specialization under the Subject/Discipline:**

Goal and Fuzzy Programming approach for Multi Objective and Multi Level Programming

**Total Teaching Experience:** ~ 22 Years

**Teaching at Miranda House since:** July 2001

S.No.	Name of the Institution	From	To	Position held
1.	Department of Mathematics, Miranda House, University of Delhi	02/04/2014	Present	Associate Professor AL-13A



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3.	Department of Mathematics, Miranda House, University of Delhi	02/04/2011	01/04/2014	Assistant Professor AL-12
4.	Department of Mathematics, Miranda House, University of Delhi	01/04/2006	01/04/2011	Assistant Professor AL-11
5.	Department of Mathematics, Miranda House, University of Delhi	27/07/2001	30/03/2006	Lecturer (Adhoc)

### Research Projects :

- DU Innovation Project “Reward Network as a Form of Experiential Marketing”
- Six week long Summer Camp- Flavor of Research (2017-2018)

### Membership Of Professional Bodies :

- Member of Operation Research Society of India
- Member of Miranda House Alumnae Association
- Member of Mathematical Programming Seminar Group University of Delhi

### Administrative Responsibilities:

- Nodal Officer of All India Survey on Higher Education (AISHE) since 2018
- Member of Miranda House Hostel Committee since 2021
- Faculty Adviser for Mathematics Society “Sankhya” since 2020
- Member of NIRF Task Force since 2016
- Member of NAAC Self Study Report (SSR) (2017)
- Member of Snapshot since 2019
- Nodal Officer of OBE (Open Book Exam) ( June 2020)



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- Deputy Superintendent, Semester-End Exams (July 2020)
- Convenor of Jigyasa: Quiz Society (2015-2019)
- Member of Snapshot Society (2019 – Till Now)
- Deputy Coordinator of Central Evaluation Cell (CEC), Miranda House (2017-2018)
- Deputy Coordinator of Central Evaluation Cell (CEC), SOL, DU (2017-2018)
- T-I-C Mathematics Department (2015-2017)
- Facilitator and Mentor of One week long DST INSPIRE Mentorship Programme
- Member of Admission Committee, Selection Committee, Attendance Committee, Time-Table Committee, Library Committee, Academic Committee
- Teacher Representative of Governing Body, Miranda House (2015-2016)
- Member of Leave Committee (2015-2017)
- Member of Syllabus committee for Algebra (2014-2015)
- Secretary of Miranda House Alumni Association (2009 – 2011)
- Member of Time-Table Committee of Mathematics Department (2011-2019)
- Member of Jigyasa: Quiz Society (2014-2015)
- Member of Organizing Team of Miranda House Alumni Association Excellence Awards
- Member of MH Vatavaran Society (2010-2014 )
- Member of NSS (2006-2009)
- Paper setting and evaluation of examination papers.
- External Examiner for Practical Examinations

### **Conferences Organised :**

- Workshop on Group Theory (27-29 January 2021)
- Lecture Series on Conceptual Introduction to Differential Calculus (18 Sept – 1 Oct 2020)
- Workshop on Probability & Statistics Using R (4-6 April 2018)
- Workshop on Real Vs Complex (4-5 April 2016)



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### Seminars/Workshops/Conferences/FDP attended :

S.No.	Details	Place	Period		Sponsoring/Organising Agency
			From	To	
1.	One Week Faculty Development Programme on "Open Source Tools for Research"	Ramanujan College University of Delhi (Online)	08 June 2020	14 June 2020	MHRD
2.	Two Weeks Faculty Development Programme on "Managing Online Classes and Co-Creating MOOCs: 2.0"	Ramanujan College University of Delhi (Online)	18 May 2020	3 June 2020	MHRD
3.	One week FDP on "Recent Trends in Research Methodology, E-content, Mathematical and Statistical Methods in Open Education World"	Kalindi College University of Delhi	17 October 2019	23 October 2019	MHRD
4.	3 Weeks UGC Sponsored Refresher Course in Mathematical Sciences	CPDHE University of Delhi	26 November 2015	16 December 2015	UGC-HRDC
5.	3 Weeks UGC Sponsored Refresher Course in Mathematical Sciences	CPDHE University of Delhi	14 December 2013	4 January 2014	UGC-ASC
6.	UGC Sponsored Orientation Course	Delhi	3 July 2008	30 July 2008	CPDHE
7.	ILLL Workshop Tier-II	Miranda House	5 April 2010	10 April 2010	Delhi University
8.	National Workshop : Art and Science of Paper Recycling	Miranda House	22 Jan 2010	23 Jan 2010	Miranda House



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9.	Student Awareness Programme	Pragati Maidaan Delhi	5 Feb 2009	6 Feb 2009	Plastindia
10.	Research Scholars' Seminar	Department of Mathematics University of Delhi	22 Jan 2009	23 Jan 2009	Department of Mathematics University of Delhi
11.	Pre-ICM ICMS-2008	Conference Centre University of Delhi	18 Dec 2008	20 Dec 2008	Delhi University
12.	Workshop on Mathematica	South Campus Delhi	21 Aug 2008	21 Aug 2008	Delhi University
13.	Civil Defence Awareness Generation Programme	Miranda House	8 January 2007	12 January 2007	Directorate General of Home Guards and Civil Defence Nishkam Sewa Bhawan

### List Of Publications:

- Gupta R. "An algorithm for multilevel fractional programming problem using goal programming" Journal of Emerging Technologies and Innovative Research 2 (2015) 1798-1819
- Gupta R., Rana M.K. "An interactive approach for integer bilevel programming problem with quadratic constraints" Journal of Emerging Technologies and Innovative Research 2 (2015) 110-122.
- Arora S.R., Gupta R. "Interactive fuzzy goal programming approach for bilevel programming problem" European Journal of Operational Research (2009) 368-376
- Arora S.R., Gupta R. "An Algorithm for multi-level programming problem using goal programming" Opsearch 45, No.1 (2008) 1-11
- Arora S.R., Gupta R. "A fuzzy goal programming approach for bilevel linear multiple objective decision making problem" International Journal of Management Science 13, No.2 (2007) 1-27.
- Arora S.R., Gupta R. "A hybrid fuzzy goal programming approach to multiple objective linear fractional programming problems" Opsearch 40, No. 3(2003) 202-218.