



Miranda House

UNIVERSITY OF DELHI

Name: Dr. Rekha Gupta

Department: Mathematics

Current Designation: Assistant Professor

Email id: rekha.gupta@mirandahouse.ac.in

Academic Qualifications (reverse chronological order):

- CSIR JRF Qualified
- Masters degree from Jamia Millia Islamia
- Graduation from Shivaji College (DU)

Research Degree(s) (reverse chronological order):

Ph.D. from University of Delhi

Field of Specialization under the Subject/Discipline: Optimization

Total Teaching Experience: 7 years

Teaching at Miranda House since: August 2015

List of Publications (reverse chronological order):

(Articles in referred/peer-reviewed/UGC Care journals/ Books/Book Chapters)

- Optimality and duality in multiobjective programming involving support functions, RAIRO Operations Research, 51, 433-446, 2017.
- Constraint qualifications in nonsmooth multiobjective optimization problem, Filomat, 31, 781-797, 2017.
- Weak efficiency of nonsmooth multiobjective programming via an eta approximation method, Maejo International Journal of science and Technology, 9, 82-92, 2015.



Miranda House

UNIVERSITY OF DELHI

- Optimality and duality for nonsmooth multiobjective programming using G-type I functions, Applied Mathematics and Computation, 240, 294-307, 2014.
- Optimality and duality in nondifferentiable multiobjective fractional programming using alpha univexity, Journal of Applied Mathematics and Informatics, 32, 359-375, 2014.

Research Guidance (reverse chronological order):

- Guided undergraduate students in a research project entitled “Assessment of financial cognizance of women in India” in 2021.
- Worked as a facilitator and mentor for 3 projects at summer experimental workshop for undergraduate science students, “Flavor of research, Investigative projects in multidisciplinary contexts” in 2020.

Conferences Organised (reverse chronological order): Coordinated in organising

- FDP on advanced linear algebra in 2021
- Four days lecture series by Prof. Amitabh Tripathi from IIT Delhi in 2019
- Talk by IPS officer Ms. Ilma Afroz in 2018
- Talk by IAS topper Ms. Ira Singhal, an open interaction in 2018
- Talk by Dr. K. V. Shantha on problem solving made easy in 2017

Seminars/Workshops/Conferences attended (reverse chronological order):

- One Week (Online) Interdisciplinary Faculty Development Programme on ‘Creation and development of MOOCs while managing online classes” from 24th – 31st August, 2021.
- Participated as a Mentor in MTTTS level 1 online course held in June 2021.
- One Week (Online) Interdisciplinary Faculty Development Programme on “Applications of Mathematics in Business and social sciences” from 18th – 24th March, 2021.
- Participated as a Mentor in 12 hour online lecture series on Conceptual introduction to Differential Calculus in September 2020.
- National Seminar for Research Scholars held at Department of Mathematics, University of Delhi, during September 20-21, 2013.
- International Symposium on Applied Optimization and Game-Theoretic Models held at Indian Statistical Institute Delhi during January 9-11, 2013.
- The Legacy of Srinivasa Ramanujan organized by the University of Delhi, during 17-22 December 2012.



Miranda House

UNIVERSITY OF DELHI

- International Conference on Optimization Modelling and Applications organized by Department of Operational Research University of Delhi during November 29-December 01, 2012.
- National Seminar for Research Scholars held at Department of Mathematics, University of Delhi, during March 24-25, 2012.
- 1st International Conference on Mathematical Sciences and Applications held at India International Centre, New Delhi, India on 18th December 2011.
- Training Programme on Nonlinear Analysis with Applications to Optimization and Game Theory held at Department of Mathematics, Aligarh Muslim University, Aligarh during November 16-19, 2011.
- International Conference on Analysis and its Applications organized by UGC-DRS Programme at the Department of Mathematics, Aligarh Muslim University, Aligarh during November 19-21, 2011.
- Training programme on Optimization Theory and Applications held at Department of Mathematics, University of Delhi, during February 10-14, 2010.