



# Kirori Mal College

(University of Delhi)

University of Delhi, Delhi-110007

(Phone No. - 011-7121 9084 : Email - principal@kmc.du.ac.in)



Print Date : 15-02-2026

## 1. Personal Profile

Title: Dr. First Name: **KAVITA** Last Name: **GUPTA**



Designation: **ASSISTANT PROFESSOR** Mobile No. -----

Phone No. (Office) ----- Phone No. (Residence): -----

Email: **gupta\_kavita31@kmc.du.ac.in** Webpage: -----

Facebook: ----- Twitter: -----

LinkedIn: ----- Instagram: -----

Youtube: ----- Research Gate Link: -----

Google Scholar Link: -----

Address: -----

## 2. Educational Qualifications

Degree/ Certification	Institution	Year
B.Sc. (H) Mathematics	Hansraj College, University of Delhi	1998
M.Sc. Mathematics	Hansraj College, University of Delhi	2000
Ph.D	Jagan Nath University, Jaipur	2013
B.Sc. (H) Mathematics	Hansraj College, University of Delhi	1998
M.Sc. Mathematics	Hansraj College, University of Delhi	2000

## 3. Career Profile & Administrative Assignments

Category	Role/ Designation	Department/ Committee	Date From - To	Remarks
CAREER PROFILE	ASSISTANT PROFESSOR	MATHEMATICS KIRORI MAL COLLEGE, DELHI	05.Jan.2015 - Till date	
CAREER PROFILE	ASSISTANT PROFESSOR	MATHEMATICS KESHAV MAHAVIDYALAYA, DELHI	13.Aug.2014 - 04.Jan.2015	

CAREER PROFILE	ASSISTANT PROFESSOR	MATHEMATICS INDRAPRASTHA COLLEGE FOR WOMEN, DELHI	21.Jul.2014 - 12.Aug.2014	
CAREER PROFILE	ASSISTANT PROFESSOR	MATHEMATICS RAMJAS COLLEGE, DELHI	23.Jul.2012 - 20.Jul.2014	
CAREER PROFILE	ASSISTANT PROFESSOR	MATHEMATICS INSTITUTE OF MANAGEMENT STUDIES, DELHI	20.Sep.2000 - 10.Jul.2011	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	STANDING COMMITTEE FOR MONITORING ADMISSIONS KIRORI MAL COLLEGE, DELHI	01.Jul.2016 - 30.Nov.2016	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	STANDING COMMITTEE FOR MONITORING ADMISSIONS KIRORI MAL COLLEGE, DELHI	01.Jul.2017 - 30.Nov.2017	
ADMINISTRATIVE ASSIGNMENTS	REPRESENTATIVE	LA-VOICE KIRORI MAL COLLEGE, DELHI	01.Jul.2020 - 30.Jun.2021	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	STANDING COMMITTEE FOR MONITORING ADMISSIONS KIRORI MAL COLLEGE, DELHI	01.Jul.2021 - 31.Dec.2021	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	STANDING COMMITTEE FOR MONITORING ADMISSIONS KIRORI MAL COLLEGE, DELHI	01.Jul.2022 - 31.Dec.2022	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	STANDING COMMITTEE FOR MONITORING ADMISSIONS KIRORI MAL COLLEGE, DELHI	01.Oct.2023 - 10.Aug.2023	
ADMINISTRATIVE ASSIGNMENTS	REPRESENTATIVE	LA-VOICE KIRORI MAL COLLEGE, DELHI	01.Jul.2021 - 30.Jun.2022	
ADMINISTRATIVE ASSIGNMENTS	REPRESENTATIVE	LA-VOICE KIRORI MAL COLLEGE, DELHI	01.Jul.2022 - 30.Jun.2023	
ADMINISTRATIVE ASSIGNMENTS	REPRESENTATIVE	LA-VOICE KIRORI MAL COLLEGE, DELHI	01.Jul.2023 - Till date	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	IQAC KIRORI MAL COLLEGE, DELHI	01.Jul.2020 - 20.Dec.2022	
ADMINISTRATIVE ASSIGNMENTS	IN-CHARGE	MATHEMATICS KIRORI MAL COLLEGE, DELHI	01.Jul.2017 - 10.Aug.2023	Staff advisor of Tensor's Mathematical Society
ADMINISTRATIVE ASSIGNMENTS	MEMBER	STANDING COMMITTEE FOR MONITORING ADMISSIONS Kirori Mal College	01.Aug.2023 - 20.Oct.2024	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	OTHERS Kirori Mal College	01.Jul.2023 - 20.Oct.2024	

ADMINISTRATIVE ASSIGNMENTS	IN-CHARGE	MATHEMATICS Kirori Mal College	01.Jul.2023 - 20.Oct.2024	Staff advisor of Tensors: The mathematics Society
ADMINISTRATIVE ASSIGNMENTS	MEMBER	G20 COMMITTEE Kirori Mal College	20.Oct.2024 - 20.Oct.2024	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	OTHERS Kirori Mal College	01.Oct.2023 - 20.Oct.2024	Organizing member of committee of Bharat Literature Festival
ADMINISTRATIVE ASSIGNMENTS	OTHERS	KIRORI MAL COLLEGE Kirori Mal College	03.Apr.2024 - 03.Apr.2024	Discipline committee member during Annual Fest Renaissance
ADMINISTRATIVE ASSIGNMENTS	OTHERS	KIRORI MAL COLLEGE Kirori Mal College	22.Sep.2023 - 22.Sep.2023	EVM committee member during Student Union Elections
ADMINISTRATIVE ASSIGNMENTS	OTHERS	ALUMNI COMMITTEE Kirori Mal College	06.Apr.2024 - 06.Apr.2024	Discipline committee member during Alumni Meet
ADMINISTRATIVE ASSIGNMENTS	OTHERS	KIRORI MAL COLLEGE Kirori Mal College	04.May.2024 - 04.May.2024	Staff honor committee member and Award and Prize distribution committee member on Annual Day
ADMINISTRATIVE ASSIGNMENTS	COORDINATOR	IQAC Kirori Mal College	01.Jul.2023 - 30.Jun.2024	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	STANDING COMMITTEE FOR MONITORING ADMISSIONS Kirori Mal College	15.Jun.2024 - 30.Oct.2024	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	GYM COMMITTEE Kirori Mal College	01.Jul.2024 - 30.Jun.2025	
ADMINISTRATIVE ASSIGNMENTS	REPRESENTATIVE	LA-VOICE KIRORI MAL COLLEGE, DELHI	01.Jul.2024 - 30.Jun.2025	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	ENACTUS SOCIETY Kirori Mal College	01.Jul.2024 - 30.Jun.2025	
ADMINISTRATIVE ASSIGNMENTS	IN-CHARGE	MATHEMATICS Kirori Mal College	01.Jul.2024 - 30.Jun.2025	Staff Advisor of Tensors Mathematics Society
ADMINISTRATIVE ASSIGNMENTS	MEMBER	OTHERS Kirori Mal College	01.Jul.2024 - 30.Jun.2025	Member of dog management committee.
ADMINISTRATIVE ASSIGNMENTS	MEMBER	OTHERS Kirori Mal College	01.Jul.2024 - 30.Jun.2025	Member of display and perception committee
ADMINISTRATIVE ASSIGNMENTS	MEMBER	OTHERS Kirori Mal College	01.Feb.2025 - 01.Feb.2025	Member of Award Committee on Founder's Day
ADMINISTRATIVE ASSIGNMENTS	MEMBER	OTHERS Kirori Mal College	27.Sep.2024 - 27.Sep.2024	Member of EVM installation committee at student union election in KMC
ADMINISTRATIVE ASSIGNMENTS	MEMBER	OTHERS KIRORI MAL COLLEGE, DELHI	16.Apr.2025 - 16.Apr.2025	Discipline committee member at Annual Fest Renaissance
ADMINISTRATIVE ASSIGNMENTS	MEMBER	OTHERS Kirori Mal College	12.Apr.2025 - 12.Apr.2025	Discipline committee member at Alumni Meet

ADMINISTRATIVE ASSIGNMENTS	MEMBER	OTHERS Kirori Mal College	03.May.2025 - 03.May.2025	1. Award and Prize distribution committee member at Annual day 2025. 2. Staff Honour Committee member at Annual day 2025.
ADMINISTRATIVE ASSIGNMENTS	COORDINATOR	MATHEMATICS Kirori Mal College	01.Jul.2024 - 30.Jun.2025	IQAC Coordinator of Department of Mathematics

#### 4. Other Profiles

##### Other Profile Name/ Description

##### SYLLABUS FORMATION

Prepared the syllabus for B.Sc. (Hons.) Mathematics, Sem-VI, DSE-4(i): Mathematical Finance (3L + 1P), GE-7 & 8 (ii), and B.A/B.Sc. (Prog.) DSE, Sem-VII: Financial Mathematics (3L + 1P) under NEP by Delhi University.

##### AREAS OF INTEREST/ SPECIALIZATION

Mathematical Programming

##### SUBJECTS TAUGHT

1. Linear Programming and game theory
2. Mathematical Finance
3. Multivariate Calculus
4. Transportation and network flow problems
5. Partial Differential Equations
6. Differential Equations
7. Algebra
8. Calculus
9. Probability and statistics
10. Calculus and Geometry

##### AWARDS AND DISTINCTIONS

Second rank in University of Delhi in B.Sc. (H) Mathematics

##### AWARDS AND DISTINCTIONS

Third rank in University of Delhi in M.Sc. Mathematics

**WORKSHOP/ SEMINAR/ CONFERENCE/ WEBINAR ORGANIZED**

- 1.Organized Qazi Zameeruddin lecture on “Seeing the unseen: Black Hole shadow” by inviting Prof. Sushant G. Ghosh, Director of the Centre for Theoretical Physics, Jamia Millia Islamia University, New Delhi, on 19.03.2025.
2. Organized seminar on “ Think Different, Think Actuarial” by Jyotsna Kaushik, President of the Indian Actuarial Network, U.K. on 28.08.2024.
3. Organized an Investor Awareness Program in collaboration with HDFC Bank under the aegis of IQAC, By Shweta Camma, a finance expert on 10.09.2024.
4. Organized a three-day Intra-departmental sports event between 10.02.2025 to 12.02.2025.
5. Organized a webinar on “Mathematical Foundations and Statistical Techniques in Data Science” by inviting Dr. Ashok Kumar Pathak, Senior Assistant Professor, Department of Mathematics and Statistics, Central University of Punjab on 28.03.2025.

**5. Research Guidance**

Year	Guide For	Title of the Dissertation/ Thesis	Scholar Name	Status
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**6. Research Projects**

Year	Title of Project	Sponsorship Agency	Duration	Amount Sanctioned	Date of Sanction
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**7. Publications**

Category	Publication Name	Title	Name of Author	Reference Link/ DOI Link	Publication (Month-Year)
JOURNAL PAPER (International)	Naïve Bayes Classifier model for detecting spam mails	Annals of data science	S.Kumar, Kavita Gupta,M.Gupta (Corresponding Author)	<a href="https://doi.org/10.1007/s40745-023-00479-z">https://doi.org/10.1007/s40745-023-00479-z</a>	June 2023
JOURNAL PAPER (International)	Fuzzy Programming for multi-choice bilevel transportation problem	Operations Research and Decisions	Ritu Arora and Kavita Gupta (Joint Author)	<a href="https://doi.org/10.37190/ord210301">https://doi.org/10.37190/ord210301</a>	August 2021
JOURNAL PAPER (International)	Three Dimensional Bounded Transportation Problem	Yugoslav Journal of Operations Research	Kavita Gupta and Ritu Arora (First Author, Corresponding Author)	<a href="https://doi.org/10.2298/YJOR191215013G">https://doi.org/10.2298/YJOR191215013G</a>	April 2021

JOURNAL PAPER (International)	Fuzzy goal programming technique for multi-objective indefinite quadratic bilevel programming problem	Archives of Control Sciences	Ritu Arora and Kavita Gupta (Joint Author)	10.24425/acs.2020.135847	August 2020
JOURNAL PAPER (International)	An algorithm for piece-wise indefinite quadratic programming problem	Croatian Operational Research Review CRORR	Ritu Arora and Kavita Gupta (Joint Author)	10.17535/crorr.2020.0004	July 2020
JOURNAL PAPER (International)	Optimum cost- time trade-off pairs in a fractional plus fractional Capacitated Transportation Problem with restricted flow	Revista Investigacion Operacional	Kavita Gupta and Ritu Arora (First Author, Corresponding Author)		September 2019
JOURNAL PAPER (International)	Multi-level integer programming problem with multiple objectives at each level	Revista Investigacion Operacional	Ritu Arora and Kavita Gupta (Joint Author)		August 2019
JOURNAL PAPER (International)	Branch and bound algorithm for a discrete multilevel linear fractional programming problem	Operations Research and Decisions	Ritu Arora and Kavita Gupta (Joint Author)	<a href="https://doi.org/10.5277/ord180201">https://doi.org/10.5277/ord180201</a>	July 2018
JOURNAL PAPER (International)	Solving the problem of industry by formulating it as a fractional capacitated transportation problem with bounds on rim conditions	International Journal of Systems Assurance , engineering and Management	Kavita Gupta (Sole Author, First Author, Corresponding Author)	<a href="https://doi.org/10.1007/s13198-018-0697-x">https://doi.org/10.1007/s13198-018-0697-x</a>	September 2018

JOURNAL PAPER (International)	Fractional plus fractional capacitated transportation problem with enhanced flow	TWMS: Journal of applied and engineering Mathematics	Kavita Gupta (Sole Author, First Author, Corresponding Author)		October 2018
JOURNAL PAPER (International)	Solving the problem of industry by formulating it as a capacitated transportation problem	International Journal of Procurement Management	Kavita Gupta (Sole Author, First Author, Corresponding Author)		November 2018
JOURNAL PAPER (International)	More for less method to minimize the unit transportation cost of a capacitated transportation problem with Bounds on Rim Conditions	Opsearch	Kavita Gupta and Ritu Arora (First Author, Corresponding Author)	<a href="https://doi.org/10.1007/s12597-016-0288-z">https://doi.org/10.1007/s12597-016-0288-z</a>	September 2017
JOURNAL PAPER (International)	Inventory and transportation cost minimization in the delivery logistic of swine flu vaccine	Yugoslav Journal of Operations Research	Kavita Gupta (Sole Author, First Author, Corresponding Author)	DOI: <a href="https://doi.org/10.2298/YJOR160617022G">https://doi.org/10.2298/YJOR160617022G</a>	October 2017
JOURNAL PAPER (International)	A Linear Fractional Bilevel Programming Problem with Multi-choice parameters	Croatian Operational Research Review CRORR	Ritu Arora and Kavita Gupta (Joint Author)	10.17535/corr.2017.0032	November 2017
JOURNAL PAPER (International)	An Algorithm For Solving A Capacitated Fixed Charge Indefinite Quadratic Transportation Problem With Enhanced Flow	Yugoslav Journal of Operations Research	Kavita Gupta and S.R. Arora (First Author, Corresponding Author)	<a href="https://doi.org/10.2298/YJOR208230439">https://doi.org/10.2298/YJOR208230439</a>	October 2014

JOURNAL PAPER (International)	Bottleneck Capacitated Transportation Problem with Bounds on Rim Conditions	Opsearch	Kavita Gupta and S.R. Arora (First Author, Corresponding Author)	10.1007/s 12597-013-0125-6	December 2013
CONFERENCE PAPER/ PROCEEDINGS (International)	Naïve Bayes Classifier Model for predicting Admission in Master's Program based on Academic grades.	Conference Proceedings of the 4th Virtual International Conference Path to a knowledge Society- Managing Risks and Innovations.	Kavita Gupta (Sole Author)		December 2022
CONFERENCE PAPER/ PROCEEDINGS (International)	A Note on Some Aspects of Capacitated Transportation Problem	Proceedings of 6th Virtual International Conference Path to a Knowledge Society- Managing Risks and Innovation, Serbia, Niš, October 21- 22, 2024 Published by: Complex System Research Centre, Niš, Serbia, and Mathematical Institute of the Serbian Academy of Sciences and Arts	Kavita Gupta (Sole Author)	<a href="https://paksom.cosrec.org/wp-content/uploads/2025/01/PaKSoM_2024.pdf">https://paksom.cosrec.org/wp-content/uploads/2025/01/PaKSoM_2024.pdf</a>	January 2025
CHAPTER (University)	First Order Differential Equations	ILLL, University of Delhi	Kavita Gupta (Sole Author, First Author)	<a href="http://www.vle.du.ac.in">www.vle.du.ac.in</a>	August 2013
CHAPTER (University)	Compartmental Models	ILLL, University of Delhi	Kavita Gupta (Sole Author, First Author)		September 2013

## 8. Books

Category	Book Name	Title	Name of Author	ISSN/ ISBN Number
BOOK (National)	Linear Programming and Game Theory	Ritu Arora and Kavita Gupta (Joint Author)	Narosa Publishing House	978-81-8487-725-0
BOOK (National)	Statistics and Quantitative Reasoning	S.R. Arora and Kavita Gupta (Joint Author)	Taxmann Publications	9789388983174
BOOK (National)	Calculus	Dinesh Khattar and Kavita Gupta (Joint Author)	Prentice Hall Of India	978-81-203-5360-2
BOOK (National)	Statistics and Quantitative Reasoning	S.R. Arora and Kavita Gupta (Joint Author)	Taxmann Publications	978-93-5071-936-7
BOOK (National)	Business Mathematics	S.R. Arora and Kavita Gupta (Joint Author)	Taxmann Publications	978-93-5071-734-9
BOOK (National)	Business Mathematics and Statistics	S.R. Arora and Kavita Gupta (Joint Author)	Taxmann Publications	978-93-5071-376-1
BOOK (National)	Business Statistics	Kavita Gupta (Sole Author, First Author)	Sun India Publications	978-93-80674-37-7

## 9. Faculty Achievements

Year	Category of Achievement	Role	National/ International etc.	Name	Date From-To
2016	INVITED LECTURES/ RESOURCE PERSON/ PAPER PRESENTATIONS ATTENDED	ASSISTANT PROFESSOR	International	International Conference on Recent Advances in Optimization Theory and Applications	30.Jan.2016 - 31.Jan.2016
2016	INVITED LECTURES/ RESOURCE PERSON/ PAPER PRESENTATIONS ATTENDED	ASSISTANT PROFESSOR	International	International Conference on Recent Advances in Optimization Theory and Applications	30.Jan.2016 - 31.Jan.2016
2016	INVITED LECTURES/ RESOURCE PERSON/ PAPER PRESENTATIONS ATTENDED	ASSISTANT PROFESSOR	National	National Conference on Algebra, Analysis, Coding and cryptography	14.Oct.2016 - 15.Oct.2016
2017	INVITED LECTURES/ RESOURCE PERSON/ PAPER PRESENTATIONS ATTENDED	ASSISTANT PROFESSOR	International	International Conference on MATHEMATICS and APPLICATIONS (ICMA-2017)	26.Apr.2017 - 28.Apr.2017

2018	INVITED LECTURES/ RESOURCE PERSON/ PAPER PRESENTATIONS ATTENDED	ASSISTANT PROFESSOR	International	33rd Annual Conference of the Ramanujan Mathematical Society	01.Jun.2018 - 03.Jun.2018
2022	INVITED LECTURES/ RESOURCE PERSON/ PAPER PRESENTATIONS ATTENDED	ASSISTANT PROFESSOR	International	THE 4TH VIRTUAL INTERNATIONAL CONFERENCE PATH TO A KNOWLEDGE SOCIETY-MANAGING RISKS AND INNOVATION	08.Dec.2022 - 09.Dec.2022
2012	SEMINAR ATTENDED	ASSISTANT PROFESSOR	International	International Seminar on History of Mathematics	19.Nov.2012 - 20.Dec.2012
2012	SEMINAR ATTENDED	ASSISTANT PROFESSOR	International	6th International Conference on Quality, Reliability, Infocom Technology and Industrial Technology Management (ICQRITM 2012)	26.Nov.2012 - 28.Dec.2012
2013	WORKSHOP/ SEMINAR/ CONFERENCE ATTENDED	ASSISTANT PROFESSOR	University	workshop on Information Technology	04.Jun.2013 - 06.Jun.2013
2013	WORKSHOP/ SEMINAR/ CONFERENCE ATTENDED	ASSISTANT PROFESSOR	University	Workshop on Building Mathematical Ability	20.May.2013 - 22.May.2013
2013	WORKSHOP/ SEMINAR/ CONFERENCE ATTENDED	ASSISTANT PROFESSOR	University	Workshop on Building Mathematical Ability	20.May.2013 - 22.May.2013
2013	WORKSHOP/ SEMINAR/ CONFERENCE ATTENDED	ASSISTANT PROFESSOR	University	MATLAB and Simulink Academic Tour 2013 of MathWorks	23.Sep.2013 - 23.Sep.2013
2016	SEMINAR ATTENDED	ASSISTANT PROFESSOR	College	seminar on MATHEMATICS AND ITS APPLICATIONS	04.Mar.2016 - 04.Mar.2016
2020	FACULTY DEVELOPMENT PROGRAM ATTENDED	ASSISTANT PROFESSOR	University	Evolution from offline to online teaching	30.May.2020 - 03.Jun.2020
2020	WORKSHOP/ SEMINAR/ CONFERENCE ATTENDED	ASSISTANT PROFESSOR	University	Application of ICT tools in higher education	11.Jun.2020 - 12.Jun.2020
2020	FACULTY DEVELOPMENT PROGRAM ATTENDED	ASSISTANT PROFESSOR	College	Fuzzy Mathematics and its Application	11.Jul.2020 - 13.Jul.2020
2021	FACULTY DEVELOPMENT PROGRAM ATTENDED	ASSISTANT PROFESSOR	University	Data Analysis Using R	15.Jun.2021 - 21.Jun.2021
2021	FACULTY INDUCTION PROGRAM ATTENDED	ASSISTANT PROFESSOR	University	Four Week Faculty Induction (Orientation) Programme	26.Jul.2021 - 24.Aug.2021

2022	FACULTY DEVELOPMENT PROGRAM ATTENDED	ASSISTANT PROFESSOR	University	Data Analysis using SPSS	15.Feb.2022 - 21.Feb.2022
2022	REFRESHER COURSE ATTENDED	ASSISTANT PROFESSOR	University	MATHEMATICAL SCIENCES	26.Sep.2022 - 10.Oct.2022
2022	FACULTY INDUCTION PROGRAM ATTENDED	ASSISTANT PROFESSOR	University	Faculty in Universities/Colleges/Institutes of Higher education	21.Dec.2022 - 19.Jan.2023
2023	REFRESHER COURSE ATTENDED	ASSISTANT PROFESSOR	University	Managing Online Classes & Co-creating MOOCS 23.0	07.Feb.2023 - 21.Feb.2023
2025	REFRESHER COURSE ATTENDED	ASSISTANT PROFESSOR	National	Training programme on “NEP 2020 orientation and sensitization programme”	03.Jul.2024 - 13.Jul.2024
2024	WORKSHOP/ SEMINAR/ CONFERENCE ATTENDED	PARTICIPANT	International	international conference HITA 2024 at Shobhit University, Gangoh, U.P.	18.Oct.2024 - 19.Oct.2024

**Dr. KAVITA GUPTA**