



# Kirori Mal College

(University of Delhi)

University of Delhi, Delhi-110007

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## 1. Personal Profile

Title: Dr. First Name: **NEHA** Last Name: **AGRAWAL**

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

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

Email: [neha@kmc.du.ac.in](mailto:neha@kmc.du.ac.in) Webpage: -----

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

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

Youtube: ----- Research Gate Link: <https://www.researchgate.net/profile/Neha-Agrawal-30>

Google Scholar Link: <https://scholar.google.com/citations?user=FINGQVMAAAAJ&hl=en>

Address: -----



## 2. Educational Qualifications

Degree/ Certification	Institution	Year
Ph.D.	University of Delhi	2020
M.Phil.	University of Delhi	2010
M.A. Mathematics	Kirori Mal College, University of Delhi	2008
B.A. (Hons.) Mathematics	Kirori Mal College, University of Delhi	2006

## 3. Career Profile & Administrative Assignments

Category	Role/ Designation	Department/ Committee	Date From - To	Remarks
CAREER PROFILE	ASSISTANT PROFESSOR	MATHEMATICS KIRORI MAL COLLEGE, DELHI	10.Oct.2012 - Till date	
CAREER PROFILE	ASSISTANT PROFESSOR	MATHEMATICS MIRANDA HOUSE, DELHI	02.Jan.2012 - 09.Oct.2012	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	IQAC KIRORI MAL COLLEGE, DELHI	04.Jul.2023 - 30.Jun.2025	

ADMINISTRATIVE ASSIGNMENTS	MEMBER	RESEARCH COUNCIL KIRORI MAL COLLEGE, DELHI	13.Jun.2023 - Till date	
ADMINISTRATIVE ASSIGNMENTS	DEPUTY SUPERINTENDENT	EXAMINATION COMMITTEE KIRORI MAL COLLEGE, DELHI	12.Oct.2023 - Till date	Deputy Superintendent in University Under- Graduate Semester Examinations Nov./ Dec., 2023 and May/June 2024.
ADMINISTRATIVE ASSIGNMENTS	CONVENER	QURIOSITY: THE QUIZ SOCIETY KIRORI MAL COLLEGE	12.Sep.2024 - Till date	Quriosity: The Quiz Society
ADMINISTRATIVE ASSIGNMENTS	MEMBER	PORTAL COMMITTEE KIRORI MAL COLLEGE, DELHI	03.Mar.2023 - 25.Jun.2025	
ADMINISTRATIVE ASSIGNMENTS	CO-CONVENER	PORTAL COMMITTEE KIRORI MAL COLLEGE	02.Aug.2024 - 25.Jun.2025	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	TIME TABLE COMMITTEE KIRORI MAL COLLEGE, DELHI	18.May.2023 - Till date	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	COORDINATING COMMITTEE FOR INFORMATION AND TECHNOLOGY Kirori Mal College	25.Jun.2025 - Till date	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	ALUMNI COMMITTEE KIRORI MAL COLLEGE, DELHI	16.Mar.2023 - 30.Jun.2024	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	FOREIGN LANGUAGE COURSES COMMITTEE Kirori Mal College	26.Jun.2024 - Till date	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	MEDIA COMMITTEE KIRORI MAL COLLEGE, DELHI	11.Aug.2023 - 25.Jun.2025	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	G20 COMMITTEE KIRORI MAL COLLEGE, DELHI	19.Jan.2023 - 26.Sep.2023	
ADMINISTRATIVE ASSIGNMENTS	COORDINATOR	EXAMINATION COMMITTEE Kirori Mal College	29.Jan.2025 - Till date	Coordinator, IA/CA, Kirori Mal College
ADMINISTRATIVE ASSIGNMENTS	MEMBER	MEDIA COMMITTEE KIRORI MAL COLLEGE, DELHI	02.Feb.2023 - 17.May.2023	
ADMINISTRATIVE ASSIGNMENTS	COORDINATOR	EDP CELL Kirori Mal College	12.Aug.2025 - Till date	Coordinator, EDP Cell, Kirori Mal College
ADMINISTRATIVE ASSIGNMENTS	MEMBER	STANDING COMMITTEE FOR MONITORING ADMISSIONS KIRORI MAL COLLEGE, DELHI	01.May.2016 - 30.Apr.2017	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	ERP ISSUES COMMITTEE Kirori Mal College	23.May.2025 - Till date	Member, ERP Issues Committee, Kirori Mal College

ADMINISTRATIVE ASSIGNMENTS	MEMBER	MATHEMATICS KIRORI MAL COLLEGE, DELHI	01.May.2022 - Till date	Time Table Committee, Department of Mathematics, Kirori Mal College
ADMINISTRATIVE ASSIGNMENTS	COORDINATOR	OTHERS Kirori Mal College	06.Dec.2024 - Till date	Evaluation of SEC/VAC/AEC answer scripts for Semester Examinations Nov-Dec 2024 and May-June 2025.

#### 4. Other Profiles

##### Other Profile Name/ Description

##### AREAS OF INTEREST/ SPECIALIZATION

Non Linear Dynamical Systems and Chaos Theory

##### SUBJECTS TAUGHT

Abstract Algebra  
 Linear Algebra  
 Differential Equations  
 Numerical Analysis  
 Mechanics  
 Discrete Mathematics  
 Analysis  
 Calculus  
 Probability and Statistics  
 Linear Programming and Applications  
 Computer Algebra Systems

##### AWARDS AND DISTINCTIONS

Secured Third position in M.A. Mathematics in University of Delhi in the year 2008.

##### WORKSHOP/ SEMINAR/ CONFERENCE/ WEBINAR ORGANIZED

Coordinator in Three day Workshop for educators on Vedic Mathematics organised by Value Addition Courses Committee (VACC), University of Delhi in collaboration with Kirori Mal College, University of Delhi from April 11 - April 13, 2023.

##### OTHERS

Co- coordinator, Aikyam under the aegis of G20 University Connect organised by Steering Committee, G20 University Connect in collaboration with Kirori Mal College, University of Delhi, on the occasion of celebrating India's Presidency of G20 on May 10- May 11, 2023.

#### 5. Research Guidance

Year	Guide For	Title of the Dissertation/ Thesis	Scholar Name	Status

#### 6. Research Projects

Year	Title of Project	Sponsorship Agency	Duration	Amount Sanctioned	Date of Sanction
2024	Synergy of Vision and Mission: Exploring the VACs in the NEP-UGC at the University of Delhi	KMC Research Projects	1 Year	8000	01.May.2024

## 7. Publications

Category	Publication Name	Title	Name of Author	Reference Link/ DOI Link	Publication (Month-Year)
JOURNAL PAPER (International)	Hybrid Projective Synchronization between different Dimensional Hyperchaotic Systems using Nonlinear Approach	Communications of the Korean Mathematical Society	Neha Agrawal, Renu Gupta, Dinesh Khattar, Govind Singh (First Author)	<a href="https://doi.org/10.4134/CKMS.C240166">https://doi.org/10.4134/CKMS.C240166</a>	July 2025
JOURNAL PAPER (International)	Chaotic Analysis of a New 3D System with Exponential Nonlinearity and its Dual Compound Combination Multiswitching Synchronization using Nonlinear Control	International Journal of Applied and Computational Mathematics	Dinesh Khattar, Neha Agrawal, Govind Singh (Joint Author)	<a href="https://doi.org/10.1007/s40819-025-01901-1">https://doi.org/10.1007/s40819-025-01901-1</a>	May 2025
JOURNAL PAPER (International)	Dual quadratic compound multiswitching anti-synchronization of Lorenz, Rössler, Lü and Chen chaotic systems	The European Physical Journal B	Govind Singh, Dinesh Khattar, Neha Agrawal (Joint Author, Corresponding Author)	<a href="https://doi.org/10.1140/epjb/s10051-024-00855-5">https://doi.org/10.1140/epjb/s10051-024-00855-5</a>	January 2025
JOURNAL PAPER (International)	Qualitative Analysis of a Novel 4D Hyperchaotic System and its Chaos Synchronisation via Active, Adaptive and Sliding Mode Control	Indian Journal of Physics	Neha Agrawal, Govind Singh (First Author)	<a href="https://doi.org/10.1007/s12648-024-03140-4">https://doi.org/10.1007/s12648-024-03140-4</a>	April 2024

JOURNAL PAPER (International)	Anti Difference Quadratic Compound Synchronization of Lorenz, Rossler, Modified Finance and Shimizu- Morioka Chaotic Systems	Indian Journal of Physics	Dinesh Khattar, Neha Agrawal, Govind Singh (Joint Author)	<a href="https://doi.org/10.1007/s12648-023-02893-8">https://doi.org/10.1007/s12648-023-02893-8</a>	September 2023
JOURNAL PAPER (International)	Qualitative analysis of a new 6D hyper-chaotic system via bifurcation, the Poincare notion, and its circuit implementation	Indian Journal of Physics	Dinesh Khattar, Neha Agrawal, Mukul Sirohi (Joint Author)	<a href="https://doi.org/10.1007/s12648-023-02796-8">https://doi.org/10.1007/s12648-023-02796-8</a>	June 2023
JOURNAL PAPER (International)	Dynamical Analysis of a 5D novel system based on Lorenz system and its hybrid projective synchronization using adaptive control	Pramana	Dinesh Khattar, Neha Agrawal, Mukul Sirohi (Joint Author)	<a href="https://doi.org/10.1007/s12043-023-02544-x">https://doi.org/10.1007/s12043-023-02544-x</a>	May 2023
JOURNAL PAPER (International)	Chaos synchronization of a new chaotic system having exponential term via adaptive and sliding mode control	Differential Equations and Dynamical Systems	Dinesh Khattar, Neha Agrawal, Govind Singh (Joint Author)	<a href="https://doi.org/10.1007/s12591-023-00635-0">https://doi.org/10.1007/s12591-023-00635-0</a>	April 2023
JOURNAL PAPER (International)	Triple compound combination synchronization of eleven n-dimensional chaotic systems	International Journal of Dynamics and control	Dinesh Khattar, Neha Agrawal, Govind Singh (Joint Author)	<a href="https://doi.org/10.1007/s40435-023-01140-6">https://doi.org/10.1007/s40435-023-01140-6</a>	February 2023
JOURNAL PAPER (International)	Dual combination-combination anti synchronization of eight fractional order chaotic systems	International Journal of Applied and Computational Mathematics	Ayub Khan, Dinesh Khattar, Neha Agrawal (Corresponding Author)	<a href="https://doi.org/10.1007/s40819-021-01237-6">https://doi.org/10.1007/s40819-021-01237-6</a>	January 2022

JOURNAL PAPER (International)	Anti difference Multiswitching compound-compound combination synchronization of seven chaotic systems	Differential Equations and Dynamical Systems	Ayub Khan, Dinesh Khattar, Neha Agrawal (Corresponding Author)	<a href="https://doi.org/10.1007/s12591-021-00583-7">https://doi.org/10.1007/s12591-021-00583-7</a>	September 2021
JOURNAL PAPER (International)	Dual combination - combination Multiswitching synchronization of eight fractional order hyperchaotic nonlinear dynamical systems	International Journal of Applied and Computational Mathematics	Ayub Khan, Dinesh Khattar, Neha Agrawal (Corresponding Author)	<a href="https://doi.org/10.1007/s40819-019-0722-z">https://doi.org/10.1007/s40819-019-0722-z</a>	September 2019
JOURNAL PAPER (International)	Synchronization of a new fractional order chaotic system	International Journal of Dynamics and Control	Ayub Khan, Dinesh Khattar, Neha Agrawal (Corresponding Author)	<a href="https://doi.org/10.1007/s40435-017-0389-4">https://doi.org/10.1007/s40435-017-0389-4</a>	December 2017
JOURNAL PAPER (International)	Synchronization between two non - identical fractional order hyperchaotic systems	Journal of Mathematical and Computational Science	Ayub Khan, Dinesh Khattar, Neha Agrawal (Corresponding Author)	<a href="https://doi.org/10.28919/jmcs/3601">https://doi.org/10.28919/jmcs/3601</a>	March 2018
JOURNAL PAPER (International)	Hybrid Projective Synchronization between the fractional order systems	Journal of Mathematical and Computational Science	Ayub Khan, Dinesh Khattar, Neha Agrawal (Corresponding Author)	<a href="https://doi.org/10.28919/jmcs/3591">https://doi.org/10.28919/jmcs/3591</a>	February 2018
JOURNAL PAPER (International)	Synchronization of Genesio and Lu chaotic dynamical systems via active control	International Journal of Applied Mathematics	Ayub Khan, Dinesh Khattar, Neha Agrawal (Corresponding Author)	10.12732/ijam.v29i2.1	April 2016

## 8. Books

Category	Book Name	Title	Name of Author	ISSN/ ISBN Number
BOOK (International)	Ring Theory	Dinesh Khattar, Neha Agrawal (Joint Author)	Springer Nature	978-3-031-29439-6
BOOK (International)	Group Theory	Dinesh Khattar, Neha Agrawal (Joint Author)	Springer Nature	978-3-031-21306-9

BOOK (National)	Elementary Linear Algebra	Dinesh Khattar, Neha Agrawal, Prempal Singh (Joint Author)	Ane Books Pvt. Ltd.	978-81-19160-65-5
BOOK (National)	Linear Algebra	Dinesh Khattar, Abhishek Tandon, Neha Agrawal (Joint Author)	Ane Books Pvt. Ltd.	978-93-94883-35-2
BOOK (National)	Ring Theory	Dinesh Khattar, Neha Agrawal (Joint Author)	Ane Books Pvt. Ltd.	978-93-90658-48-0
BOOK (National)	Group Theory	Dinesh Khattar, Neha Agrawal (Joint Author)	Ane Books Pvt. Ltd.	978-93-90658-94-7

## 9. Faculty Achievements

Year	Category of Achievement	Role	National/ International etc.	Name	Date From- To
2024	ONLINE CERTIFICATE COURSE/ TRAINING PROGRAMS ATTENDED	PARTICIPANT	National	NEP 2020 Orientation and Sensitization Programme under Malaviya Mission Teacher Training Programme (MM-TTP) of UGC	07.May.2024 - 16.May.2024
2024	WORKSHOP/ SEMINAR/ CONFERENCE ATTENDED	PARTICIPANT	National	Collecting Stories under Digital District Repository Project of Azadi ka Amrit Mahotsav	06.May.2024 - 07.May.2024
2022	FACULTY DEVELOPMENT PROGRAM ATTENDED	PARTICIPANT	National	Significance of Vedic Mathematics in Modern Era	05.Dec.2022 - 10.Dec.2022
2022	FACULTY INDUCTION PROGRAM ATTENDED	PARTICIPANT	National	Four Week Faculty Induction/ Orientation Programme for Faculty in Universities/ Colleges/ Institutes of Higher Education	20.Sep.2022 - 19.Oct.2022
2022	REFRESHER COURSE ATTENDED	PARTICIPANT	National	Two Week Interdisciplinary Refresher course in Advanced Research Methodology	27.Oct.2022 - 10.Nov.2022
2020	FACULTY DEVELOPMENT PROGRAM ATTENDED	PARTICIPANT	National	Faculty Development Programme on R	11.May.2020 - 15.May.2020
2020	FACULTY DEVELOPMENT PROGRAM ATTENDED	PARTICIPANT	National	Role of LaTeX in Scientific Writing	19.Jun.2020 - 21.Jun.2020
2020	FACULTY DEVELOPMENT PROGRAM ATTENDED	PARTICIPANT	National	Twelve Day Faculty Development Programme on SCILAB	22.May.2020 - 02.Jun.2020
2020	FACULTY DEVELOPMENT PROGRAM ATTENDED	PARTICIPANT	National	Ten Day Faculty Development Programme on R Programming	08.Jun.2020 - 17.Jun.2020
2020	FACULTY DEVELOPMENT PROGRAM ATTENDED	PARTICIPANT	National	Seven Days Online FDP on ICT: Instructional Design, Development and Learning Analytics	24.Jul.2020 - 30.Jul.2020

2020	WEBINAR ATTENDED	PARTICIPANT	National	Role of ICC and Prevention, Prohibition and Redressal of Sexual harassment of Workmen at Workplace	22.May.2020 - 22.May.2020
2020	WEBINAR ATTENDED	PARTICIPANT	National	Breast Cancer Awareness Webinar	24.Oct.2020 - 24.Oct.2020
2020	WORKSHOP/ SEMINAR/ CONFERENCE ATTENDED	PARTICIPANT	International	International Workshop on Numerical Methods in Scientific Computing (IWNMSC- 2020)	21.Feb.2020 - 22.Feb.2020
2019	INVITED LECTURES/ RESOURCE PERSON/ PAPER PRESENTATIONS ATTENDED	PARTICIPANT	International	International Conference on Physics, Society and Technology - 2019	17.Jan.2019 - 19.Jan.2019
2019	INVITED LECTURES/ RESOURCE PERSON/ PAPER PRESENTATIONS ATTENDED	PARTICIPANT	National	National Conference on Advances in Mathematical Analysis and its Applications	08.Nov.2019 - 10.Nov.2019
2018	INVITED LECTURES/ RESOURCE PERSON/ PAPER PRESENTATIONS ATTENDED	PARTICIPANT	National	National Research Scholars' Seminar	28.Dec.2018 - 28.Dec.2018
2017	SEMINAR ATTENDED	PARTICIPANT	National	National Seminar on Recent Developments in Mathematics	12.Jan.2017 - 13.Jan.2017
2020	ONLINE CERTIFICATE COURSE/ TRAINING PROGRAMS ATTENDED	PARTICIPANT	National	Introduction to Computer Algebra System: Maxima (An open source software)	27.Jun.2020 - 18.Jul.2020
2013	ONLINE CERTIFICATE COURSE/ TRAINING PROGRAMS ATTENDED	PARTICIPANT	National	Instructional School for Teachers in Group Theory	03.Jun.2013 - 15.Jun.2013
2015	ONLINE CERTIFICATE COURSE/ TRAINING PROGRAMS ATTENDED	PARTICIPANT	National	MATLAB Fundamentals	07.May.2015 - 09.May.2015
2010	WORKSHOP/ SEMINAR/ CONFERENCE ATTENDED	PARTICIPANT	National	Workshop on Information Literacy and Competency	23.Feb.2010 - 23.Feb.2010
2016	WORKSHOP/ SEMINAR/ CONFERENCE ATTENDED	PARTICIPANT	National	Workshop on LaTeX and HTML	27.Aug.2016 - 27.Aug.2016
2014	WORKSHOP/ SEMINAR/ CONFERENCE ATTENDED	PARTICIPANT	National	Workshop on Teaching Methodology for Maths for Visual Impairment	12.Mar.2014 - 13.Mar.2014

**Dr. NEHA AGRAWAL**