

Rajni Gupta

Assistant Professor in Mathematics

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PROFESSIONAL SUMMARY:

Experienced Assistant Professor of Mathematics with over 15 years of teaching and research expertise, including a Ph.D. in Queueing Theory. Known for simplifying complex concepts and fostering critical thinking, I am committed to mentoring students and contributing to the academic community through impactful research, publications, and presentations.

EDUCATIONAL QUALIFICATION:

Degree	University	Year of passing	Percentage
PhD	Baba Mastnath University, Asthal bohar, Rohtak	April, 2023	NA
NET	CSIR, New Delhi	2011	Qualified
M.Sc	MDU, Rohtak	2009	85.2%
B.Sc	MDU, Rohtak	2007	88.06%
12 th	HBSE, Bhiwani	2004	90%
10 th	HBSE, Bhiwani	2002	89.33%

ACADEMIC POSITIONS:

- Secured first position in M.D.U, Rohtak in M.Sc.
- Secured first position in M.D.U, Rohtak in B.Sc.

TEACHING EXPERIENCE:

Institution	Designation	Duration
Hindu Girls College, Sonipat	Assistant Professor	Jul 2009 – Sep 2013
Hindu College, Sonipat	Assistant Professor	Sep 2013 – till date

RESEARCH EXPERIENCE:

My research specializes in Queueing Theory, focusing on mathematical modeling and analysis of complex systems. I have published five research papers in peer-reviewed journals, including one in a prestigious SCI journal. My research work contributes to advancing the understanding of queueing models, with applications in optimizing system performance in various fields.

PUBLICATIONS:

- ESCI Journal Articles:

- Analysis of Feedback Queueing Model with Differentiated Vacations under Classical Retrial Policy.
- Impatient Customers in Queueing System with Optional Vacation Policies and Power Saving Mode.

- UGC Care Listed Journal Articles:

- Cost optimization of Queueing System with Working Vacation, Setup, Feedback, Reneging and Retention of Reneged customers
- Study of feedback queueing system with unreliable waiting server under multiple differentiated vacation policy

- Peer Reviewed Journal Articles:

- Analysis of Finite Capacity Queueing System with Multiple Vacations and Encouraged Customers

- Books and Book Chapters:

- Author of the Book “Introductory Mathematics (MDC)” by Jeevansons Publications
- Author of the Book “Programming in C and Numerical Methods” by SAAD Publications

PERSONAL ATTRIBUTES:

- Good communication skills.
- Committed to the assignment given to me.
- Matured enough to handle sensitive information professionally.
- Fast and self-learning ability.

PRESENTATIONS:

- Conference presentations
 - 16 research papers presented in Various National and International conferences.

PROFESSIONAL SERVICES:

- Peer review activities

Paper reviewed for ESCI Journal, **Contemporary Mathematics**.

PROFESSIONAL DEVELOPMENT:

- Workshops and training attended

- Attended 4 week orientation program from 19-05-2014 to 17-06-2014, organized by UGC HRDC, BPS MV, Khanpur Kalan, Sonipat.
- Participated in 3 week refresher course in ‘Teachers educator program’ from 19-11-2016 to 10-12-2016 organized by UGC HRDC, BPS MV, Khanpur Kalan, Sonipat.
- Participated in FDP national webinar entitled ‘Challenges and Opportunities in Higher Education in India for the 21st century’ organized by Guru Angad Dev Teaching Learning center SGTB Khalsa college, University of Delhi, Under the PMMMNMTT of MIRD and IQAC, Hindu College, University of Delhi held on 8 May, 2020.
- Participated in 2 week online refresher course in ‘Mathematics and Statistics’ from 23-10-2020 to 06-11-2020 organized by UGC HRDC, BPS MV, Khanpur Kalan, Sonipat.
- Participated in 14 days E-Refresher program on ‘Research and Publication Ethics’ from 22-06-2021 to 05-07-2021 organized by Baba Mast Nath University, Rohtak.
- Participated in 2 week online refresher course in ‘Yoga and lifestyle’ from 19-01-2022 to 01-02-2022 organized by UGC HRDC, BPS MV, Khanpur Kalan, Sonipat.
- Attended NEP 2020, orientation and sensitization program under Malaviya Mission Teacher Training Program of UGC organized by Kurukshetra University, Kurukshetra from 22-01-2024 to 03-02-2024.

I hereby declare that the above-mentioned information is true to the best of my knowledge.

Place: Sonipat

(Dr. Rajni Gupta)