



## Dr. Manu Rohilla

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### Current Position

Assistant Professor (April 2021-till date)  
Department of Mathematics  
J.C. Bose University of Science and Technology, YMCA  
Faridabad, Haryana-121006, India

### Academic Qualifications

- **Secondary:** Passed in 2009 with 94.33% marks (CBSE) from M.D.N. Public School, Rohtak, Haryana, India.
- **Senior Secondary:** Passed in 2011 with 93.8% marks (CBSE) from M.D.N. Public School, Rohtak, Haryana, India.
- **B. Sc. (Hons.) Mathematics:** Passed in 2014 with 95.96% marks from Kirori Mal College, University of Delhi, Delhi, India.
- **M. Sc. Mathematics:** Passed in 2016 with 85.31% marks from Hindu College, University of Delhi, Delhi, India.
- **Ph. D.** Completed in September 2021 from Department of Mathematics, University of Delhi, Delhi.

*Thesis title:* Fixed Point Theorems for Contractive Mappings in Generalized Metric Spaces.

*Supervisor:* Prof. Anuradha Gupta, Professor, Department of Mathematics, Delhi College of Arts and Commerce, University of Delhi, Netaji Nagar, New Delhi-110023, India.

### Research Interests

- Fixed point theory and operator theory

### Research papers

1. Anuradha Gupta and Manu Rohilla, Coincidence point results in b-metric spaces via  $C_F$ -s-simulation function, Miskolc Mathematical Notes, 20(2019), no.2, 911-924.
2. Anuradha Gupta and Manu Rohilla, Fixed point theorems of  $(\alpha, \psi)$  G-contractive mappings in quasi-partial b-metric-like spaces endowed with a graph, Asian European Journal of Mathematics, 14(2021), no. 2, 2150014.
3. Anuradha Gupta and Manu Rohilla, On coupled best proximity point and Ulam-Hyers

stability, Journal of Fixed Point Theory and Applications, 22(2020), no. 2, Paper No. 28, 21pp.

4. Anuradha Gupta and Manu Rohilla, Inexact infinite products of weak quasi-contraction mappings in b-metric spaces, Numerical Functional Analysis and Optimization, 41(2020), no. 12, 1528-1547.
5. A. Gupta, A. Kumar and M. Rohilla, A new approach to coincidence points and common fixed points under a homotopy of families of mappings in b-metric spaces, Asian-European Journal of Mathematics, Vol. 17, No. 3 (2024), 2450029 (14 pages).
6. A. Kumar, M. Rohilla and R. Lal, A note on Browder's theorem and a Cline's formula for generalized Drazin-g-meromorphic inverses, Filomat, Vol. 38, No. 25 (2024), 8849-8860.

#### **Conferences/ Workshops/ Value Added Courses/ FDPs/ STCs/ Refresher Courses Attended**

1. Attended International Meet on Analysis organized by the Department of Mathematics, University of Delhi on November 24, 2018.
2. Attended 84th Annual Conference of Indian Mathematical Society: An International Meet organized by School of Mathematics, Shri Mata Vaishno Devi University, Katra, Jammu and Kashmir during November 27-30, 2018.
3. Attended National Research Scholar's Seminar organized by Department of Mathematics, University of Delhi on December 28, 2018.
4. Presented a paper in International Workshop on Fixed Point Theory and its Applications (IWFPTA2019) organized by Department of Mathematics, Jamia Millia Islamia, New Delhi during March 15-17, 2019.
5. Presented a paper in the 85th Annual Conference of Indian Mathematical Society: An International Meet organized by Department of Mathematics, IIT Kharagpur, West Bengal during November 22-25, 2019.
6. Attended One Week Professional Development Program organized by J.C. Bose University of Science and Technology, YMCA, Faridabad during June 28- July 3, 2021.
7. Attended Two Day Workshop on Applications of Mathematics organized by Department of Mathematics, J.C. Bose University of Science and Technology, YMCA, Faridabad during August 9-10, 2021.
8. Attended Ten Days National Workshop on Vedic Mathematics organized by Department of Mathematics, Chaudhary Bansi Lal University, Bhiwani in collaboration with Shiksha Sanskriti Utthan Nyas, New Delhi during August 31-September 9, 2021.
9. Attended One week International Faculty Development Programme on Advanced Linear Algebra organized by Miranda House, University of Delhi in collaboration with Mahatma Hansraj Faculty Development Centre, Hansraj College, University of Delhi, New Delhi during September 27-October 1, 2021.
10. Attended Ten Days Value Added Course on Vedic Mathematics organized by Department of Mathematics and Department of Computer Engineering, J.C. Bose University of Science and Technology, YMCA, Faridabad in collaboration with Shiksha Sanskriti Utthan Nyas, New Delhi during October 18-28, 2021.
11. Attended two-week Interdisciplinary Refresher Course on Advanced Research Methodology organized by Teaching Learning Centre, Ramanujan College, University of Delhi in collaboration with Academia International College, Nepal under the aegis of

Ministry of Education, Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching from January 22-February 05, 2022.

12. Attended International Conference on “Integrated Approaches in Science and Technology for Sustainable Future” IASTSF-2022 organized by J.C. Bose University of Science and Technology, YMCA, Faridabad in collaboration with American Chemical Society during February 28-March 1, 2022.
13. Attended 4-week Induction/Orientation Programme for Faculty in Universities/Colleges/Institutes of Higher Education organized by Teaching Learning Centre, Ramanujan College, University of Delhi under the aegis of Ministry of Education, Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching from May 20-June 18, 2022.
14. Attended Annual Training Camp of NCC organized at NCC Academy, Ropar during October 12-19, 2022.
15. Attended 5-Day Online FDP on “Inculcating Universal Human Values in Technical Education” organized by All India Council for Technical Education (AICTE) during June 5-9, 2023.
16. Delivered an invited talk on “Best Proximity Point Results and Applications” in International Conference on Advances in Pure and Applied Mathematics organized by Shyam Lal College, University of Delhi during February 8-10, 2024.
17. Presented a paper in 4<sup>th</sup> International Conference on Nonlinear Applied Analysis and Optimization organized by National Institute of Technology, Hamirpur, Himachal Pradesh during October 17-19, 2024.
18. Delivered a contributory talk in 39<sup>th</sup> Annual Conference of the Ramanujan Mathematical Society (RMS-2024) organized by Christ (Deemed to be University), Bengaluru, Karnataka during December 27-29, 2024.

### **Workshop/ Conferences Organized**

1. Acted as Co-Coordinator of Ten-Day Value Added Course on “Vedic Mathematics” held from October 18-28, 2021.
2. Acted as Coordinator of Two Days Workshop on “Recent Trends in Complex Analysis” held from February 9-10, 2022.

### **Academic Bodies Membership**

1. Lifetime member (Membership No.: (L41296) of ISCA (Indian Science Congress Association).

### **Contact Information**

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