



Dr Seema Mehra
Assistant Professor
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Name: Dr Seema Mehra
Husband's Name: Mr Chandra Pal
Current Position: Assistant Professor
Department of Mathematics
Maharshi Dayanand University
Rohtak-124001
Date of Birth and Nationality: (02.10.1980) Indian
Permanent Address: H.No. 1147/21, Prem Nagar, Rohtak

Educational Background:

Ph.D	Mathematics	MDU, Rohtak	2010
M.Sc.	Mathematics	MDU, Rohtak	2003
B.Ed	Mathematics, Science	MDU, Rohtak	2001
B.Sc	Physics, Chemistry, Mathematics	MDU, Rohtak	2000

Date of Joining: 11-07-2006.

Fellowship Awarded: JRF awarded by UGC-CSIR, New Delhi.

Language Proficiency : English, Hindi

Positions held in Department of Mathematics:

Assistant Professor(AGP 6000)	Department of Mathematics (11.07.2006- 06.12. 2011) Maharshi Dayanand University Rohtak-124001
Assistant Professor(AGP 7000)	Department of Mathematics (07.12.2011- 06.12.2015) Maharshi Dayanand University Rohtak-124001
Assistant Professor(AGP 8000)	Department of Mathematics (07.12.2015-continuing) Maharshi Dayanand University Rohtak-124001

Research Project:

- Minor research project on Fuzzy Sets and Fuzzy Logic: Theory and Applications from **University Grants Commission, New Delhi. 2012-2014**(Rs. 1,60,000).

Research Experience and Theme of Research (10 Years: 2006 to 2016 continuing):

a) Common Fixed Point Theorems in Intuitionistic Fuzzy Metric and Normed Spaces (2006-2012):

21 papers are published in this field in national and international journals.

b) Graph Labeling, Set Indexers of Graphs, Labeling of Fuzzy Graphs(2012 continuing):

10 papers are published in this field in national and international journals.

Academic Teaching & Research at Department of Mathematics, New Delhi(2006-2016 continuing):

Teaching Experience : 11 years

Post Graduate Supervision :

- Teaching two courses at M.Sc. Level- **Subjects Taught**
Functional Analysis
Real Analysis
Advanced Discrete Mathematics
- 14 M.Phil students and Ph.D students(currently supervising 4 Ph.D students in 2012-18)
- Topics of Ph.D. Students under my supervision
 1. On Labeling of Graphs with Certain Conditions
 2. Labeling of Fuzzy and Intuitionistic Fuzzy Graphs
 3. Advanced Studies on Set Indexers of Graphs- Topological Approach
 4. Existence Of Fixed Points For Mappings In Various Spaces Endowed With Graphs

LIST OF Ph.D. STUDENTS

S.No.	Title of the Thesis	Name of the Candidates	Registered and Awarded
1	On Labeling of Graphs with Certain Conditions	Neelam Kumari	Registered-12-12-2012
2	Labeling of Fuzzy and Intuitionistic Fuzzy Graphs	Manjeet Singh	Registered-16-12-2013
3	Advanced Studies on Set Indexers	Puneet	Registered-16-05-2014

	of Graphs- Topological Approach		
4	Existence Of Fixed Points For Mappings In Various Spaces Endowed With Graphs	Anuradha	Registered- 01-03-2017

LIST OF M.PHIL STUDENTS

S.NO	TITLE OF THE DISSERTATION	NAME OF THE CANDIDATES	Degree Awarded
1.	On Stability of Some Fixed Point Iteration Procedures	Jagjeet	2011
2.	Studies On Iteration Procedures And Their Convergence	Ritika	2011
3.	Fixed Point Theorems And Convergence Theorems For Various Mappings In Cat(0) Spaces	Sonu Mehla	2013
4.	A Study On Coupled And Tripled Common Fixed Point heorems For Pair Of Various Mappings In G-Metric Spaces	Suman	2013
5.	A Study Of Magic Graphs	Balraj	2013
6.	Coupled Fixed Point Theorems In Partially Ordered Metric And Partially Ordered Cone Metric Spaces	Sonu	2013
7.	Fixed Point And Coupled Fixed Point Theorems In b- Metric Spaces	Menka	2014
8.	A Study of Some Results On Tripled Fixed Points For Mappings	Jyoti	2014
9.	A Study on Set-Indexers Of Graphs	Pinki	2014
10.	On Coupled Fixed Point Theorems in Fuzzy Metric Spaces	Udaibhan	2016
11.	Quadruple Fixed Point Theorems in Metric and Partially Ordered Metric Spaces	Sukanya	2017

12.	Some Results on Fixed Points and Coupled Fixed Points in Dislocated Metric Spaces	Chandni	2017
13.	Fixed Point Theorems for Mappings in Metric Spaces Endowed With a Graph	Anita	2017
14.	A Study On Fuzzy Graphs And Bipolar Fuzzy Graphs	Umesh Kumari	2017

Contribution in Departmental Committees:

- Convenor, Committee for Maintenance & Updation of Records related to Students and Research Activities of the Department
- Member of Committee for Framing and Updation of Syllabi
- Member, Departmental NAAC Committee, Department of Mathematics, MDU, Rohtak.
- Member of Committee of Cultural Programme on the occasion of Welcome / Farewell Party of the students.
- Convenor, Committee of Parent-Teacher's Meet (2011-12).
- Time Table Incharge of Department of Mathematics, MDU, Rohtak(2006-09)
- Member of Committee of Parent – Teacher's Meet (Students' support Activity).
- Member of Time Table Committee from 2015-2016.
- Member of Admission Committee for M.Sc. Mathematics/M.Sc. Mathematics with Computer Science/ 5-Year Integrated M.Sc. Maths (Hons.).
- Member of Merit list preparation Committee for M.Sc. Mathematics/M.Sc. Mathematics with Computer Science/ 5-Year Integrated M.Sc. Maths (Hons.)
- Member of Merit Preparation Committee for M.Phil Mathematics
- Teacher In-charge for M.Sc. Mathematics
- Member of one day trip organized by the Department (Session 2015-2016).
- Member of Committee to Provide Information under RTI Act.
- Convenor, Committee to prepare Annual Report of Department of Mathematics, M.D.U.Rohtak.
- Member, Departmental NAAC Committee, Department of Mathematics, M.D.University, Rohtak.
- Member, Departmental NIRF Committee, Department of Mathematics, M.D.University, Rohtak.
- Member, Departmental Annual Report of Department Committee, Department of Mathematics, M.D.University, Rohtak.
- Member, Departmental SAP Committee, Department of Mathematics, M.D.University, Rohtak.
- Member, University NAAC Committee, Criterion III, M.D.University, Rohtak.

Professional Recognition and Membership :

- Member of U.G. Board of Studies(11.12.2009-10.12.2011)
- Member of Academic Council of MDU, Rohtak (28.6.2010-27.6.2012)
- Member of Departmental Research Committee for completed year(2013)
- Member of P.G. Board of Studies(26.3.2009- 25.3.2011) and (22.4.13-21.4.15)(2017-19)
- Member of Faculty of Physical Sciences (29.11. 2010-28.11. 2011) and (2016-17)
- Life Member, Indian Society of Information Theory & Applications

Refresher/ Orientation Courses/Conferences/Seminars/Workshops Attended

- Refresher/ Orientation Courses: 03
- Workshop: 08
- Seminars : 05
- International Conferences : 08
- National Conferences : 04
- One Week Short Term Course : 01

Sr. No.	Programme	Duration	Organized by
1	Refresher Course	18.12.2013-09.1.2014	B.P.S. Mahila Vishwavidyalaya, Khanpur, Sonapat
2	Refresher Course	22.12.2010-12.1.2011	B.P.S. Mahila Vishwavidyalaya, Khanpur, Sonapat
3	Orientation Course	7.12.2009-3.1.2010	B.P.S. Mahila Vishwavidyalaya, Khanpur, Sonapat
4	One Week Short Term Course	15.01.2018-20.01.2018	NIT, Kurukshetra

Forthcoming Papers:

- ❖ Seema Mehra and Puneet, A Characterization for Topologically Integer Additive Set-Indexer of Graphs II, Asian European Journal of Mathematics.
- ❖ Seema Mehra and Puneet, On Topogenic Integer Additive Set- Labeling of Some Graphs, Journal of Mathematical and Fundamental Sciences.
- ❖ Seema Mehra and Puneet, Topogenic Integer Additive Set- Labeling of Signed Graphs.
- ❖ Seema Mehra and Anuradha Jangra, New Approach for Common Fixed Point Theorems Via ϵ -Compatible Map in Partial Metric Space Endowed with Graph, Journal of Fixed Point Theory and Applications.

Published Papers in Journals:

International Journal -17, National Journal- 18

1. Seema Mehra And Manjeet Singh, Single Valued Neutrosophic Signed Graphs, International Journal Of Computer Applications,2017, 157(9),31-34.
2. Seema Mehra and Puneet, On Topological Integer Additive Set- Graceful Graphs, Interational Journal of Mathematical Sciences, 2015, 35(2), 1780-1784. ISSN-2051-5995.
3. Seema Mehra and Manjeet Singh, Some Results on Intuitionistic Fuzzy Magic Labeling Graphs, Aryabhatta Journal of Mathematics and Informatics Vol.09 Issue-01, (January - June, 2017) ISSN: 2394-9309 (E) / 0975-7139 (P) Impact Factor-5.856, 931-938.
4. Seema Mehra and Puneet “A Characterization of Topogenic Integer Additive Set-indexers of Graphs”, Far East Journal of Mathematical Sciences”10(11), 2017,2349-2370. (Indexed: Scopus) Impact Factor=0.56, H-index=12, ISSN:0972-0871.
5. Seema Mehra and Puneet,” On Topological Strong Integer Additive Set-Indexers of Graphs,” International Journal of Mathematical Sciences, 16(2), 2017. (UGC-Listed) ISSN-0972-754X.
6. Seema Mehra and Puneet, A Characterization for Topologically Integer Additive Set-Indexer of Graphs, Discrete Mathematics, Algorithms and Applications , 2016, 8 (1), 165001201- 165001210.
7. Seema Mehra and Manjeet Singh, Complementary Nil Domination in Intervalvalued Intuitionistic Fuzzy Graph, Gen. Math. Notes, 2015, 31 (1), 61-71.
8. Seema Mehra, Neelam Kumari, Some New Families of Total Vertex Product Cordial Labeling Of Graphs, International Journal of Scientific & Engineering Research, 2014, 5(10), 119-124, ISSN 2229-5518.
9. Seema Mehra, Anju Panwar and Renu Chugh, Common Fixed Point Theorems in Cone G- Metric Space with W- Distance, International Journal of Mathematical Archive, 2014, 5(3), 283-289. ISSN: 2229-5046.
10. Neelam Kumari and Seema Mehra, New Construction on Complementary Super Edge Magicness of Graphs, International Journal of Advances In Engineering & Technology, 2014, 6 (6),2791-2794. ISSN: 2231-1963.
11. Neelam Kumari and Seema Mehra, E-Super Vertex Magic Labeling and V-Super Vertex Magic Labeling, International Journal of Scientific & Engineering Research, 2014, 5 (1), 210-213. ISSN: 2229-5518.
12. Savita Rathee, Seema Mehra and Anju Panwar, Fixed Points of Mappings in Fuzzy Normed Spaces, International Journal of Computer Applications , 2013, 62(21), 8-10. ISSN: 0975 -8887.
13. Neelam Kumari and Seema Mehra, 1-Edge Magic Labeling for Some Class of Graphs, International Journal of Computer Engineering & Science, 2013, 3(2), 87-90. ISSN: 2231-6590.
14. Anju Panwar , Renu Chugh and Seema Mehra, Some Fixed Point Theorems For T-Kannan Contractions and Weakly Compatible Pairs of mappings in G-cone Metric

- Spaces, Scientific Studies and Research Series Mathematics and Information , 2013, 23(2), 87-114. ISSN: 2067-3566.
15. Seema Mehra and Neelam Kumari, Complementary Super Edge Magic Labeling of Some Graphs, International Journal of Applied Science and Technology Research excellence, 2013, 3(4), 20-24. ISSN: 2250-2718.
 16. Neelam Kumari and Seema Mehra, Further Results on Complementary Super Edge Magic Graph Labeling, International Journal of Innovative Research in Science, Engineering and Technology, 2013, 2(9), 4596-4601. ISSN: 2319-8753.
 17. Neelam Kumari and Seema Mehra, Some Graphs with n- Edge Magic Labeling, International Journal of Innovative Research in Science, Engineering and Technology, 2013, 2(10),5633-5640. ISSN: 2319-8753.
 18. Renu Chugh, Anju Rani*, and Seema Mehra, On Some Fixed Point Iteration Procedures with Errors for Quasi Non Expansive Mappings, Asian Journal of Current Engineering And Maths, 2012, 64 – 68. **ISSN:** 2277-4920.
 19. Seema Mehra, Common Coupled Fixed Point Theorems of Contractive Mappings in Q-Fuzzy Metric Spaces , International Journal of Mathematical Archive, 2012, 3(10), 3826-3835. ISSN: 2229-5046.
 20. Seema Mehra, Fixed Point Theorems in Non-Archimedean Fuzzy Metric Spaces, International Journal of Applied Mathematical Research, 2012, 1 (2), 220-233. ISSN: 2227-4324.
 21. Seema Mehra, Common Fixed Points of Weakly Compatible Mappings in ϵ - Chainable Intuitionistic Fuzzy Metric Spaces, International Journal of Engineering and Technology, 2012, 1 (1) , 14-25. **ISSN:** 2227-524X.
 22. Seema Mehra, Common Fixed Point Theorem in Sequentially Compact Intuitionistic Fuzzy Metric Spaces under Implicit Relations, International Journal of Computer Applications , 2012,55(15), 18-25. **ISSN:**0975 – 8887.
 23. Seema Mehra, Renu Chugh and Anju Rani, Generalized E-metric Spaces and Fixed Points, Global Journal of Theoretical and Applied Mathematics Sciences, 2012, 2(3), 151-156. ISSN : 2248-9916.
 24. Seema Mehra and Renu Chugh, Semi-compatibility in Non-Archimedean Fuzzy Metric spaces, International Journal of Computer Applications (0975 – 8887), 2012, 41(8), 12-17.
 25. Seema Mehra and Renu Chugh, Fixed point theorems in fuzzy metric spaces through weakcompatibility, Scientific studies and Research series and informatics, 2012, 22(1), 31-40.
 26. Renu Chugh and Seema Mehra, On the Theory of Intuitionistic Fuzzy N-Inner Product Spaces with Applications, Journal of Mathematics and Statistics, 2012, 8 (2), 198-210.
 27. Anju Rani and Seema Mehra, Common Fixed Point Theorem for Compatible Mappings Satisfying General Contractive Type Conditions in Intuitionistic Fuzzy Metric Spaces, International Review of Applied Engineering Research (IRAER), 2011, 1(3), 201-209.
 28. Anju Rani , Seema Mehra, Savita Rathee, Common fixed point theorem for R-weakly commutativity of type (Ag) satisfying general contractive type condition, International Journal of Applied Engineering Research, Dindigul,2011,1(4), 830-839.

29. Seema Mehra and Renu Chugh, Semi-Compatible Maps in a Non-Archimedean Generalized Fuzzy Metric Space, *Global Journal of Mathematical Sciences: Theory and Practical (GJMS)*,2010,2(1-2), 75-82.
30. Anju Rani , Renu Chugh and Seema Mehra, Fixed Points of Absorbing Maps in Fuzzy Metric Space, *International Mathematical Forum*, 4, 2009, no. 32, 1591 - 1601.
31. Seema Mehra and Meenakshi Gugnani, A common fixed point for six mappings in an intuitionistic M-fuzzy metric space. *Indian Journal of Mathematics*, Vol. 51 No. 1, (2009) 23-47.
32. Renu Chugh and Seema Mehra, Fixed points in intuitionistic generalized fuzzy metric spaces, *Journal of Fuzzy Mathematics*,2009,15(4),931.
33. Seema Mehra and Renu Chugh, Fixed Points in Intuitionistic Generalized Fuzzy Metric Space Through Semi-compatibility, *Journal of the Indian Math. Soc. ,* 2008,75(1 - 4), 105-124.
34. Renu Chugh, Seema Mehra and Meenakshi Gugnani, Round Intuitionistic Fuzzy Metric Spaces, *Advances in Fuzzy Mathematics (AFM)*,2007,2(1-2).
35. Renu Chugh and Seema Mehra, On the Existence of a Fixed Point for Mutually Contractive Self-Mappings in Intuitionistic Generalized Fuzzy Metric Spaces, *International Mathematical Forum*,2007,2(58), 2875 - 2888.

Conference/Seminar/ Workshop Attended:

1. Attended and presented a paper entitled “Development in Fuzzy Set Theory-A Historical Review” in National Conference on History of Mathematics and Recent Developments, Department of Mathematics, M. D. University, Rohtak during December 20-22, 2006.
2. Attended International Conference Operator Theory and Related Areas, Department of Mathematics, University of Delhi, Delhi during January 9-12,2008.
3. Attended and presented a Paper entitled “ Absorbing maps in Intuitionistic fuzzy metric spaces” in International Conference on Recent Trends in Mathematics and its Applications(ICRTMA-09) on March 30-31, 2009 held at Jamia Millia Islamia
4. Attended and presented a paper entitled “ An Extension of Banach Contraction Principle Intuitionistic Fuzzy Normed spaces” in **International Conference on Mathematics and Soft Computing (Applications in Engineering)** NC College of Engineering , Israna (Panipat), 4-5 December 2010.
5. Attended and presented a paper entitled “On Fixed and Coincidence Points under Contractive Mappings in Non-Archimedean Fuzzy Metric Spaces” in International Colloquium on History of Mathematical Sciences and Symposium on Nonlinear Analysis from May 16-19,2011.
6. Attended and presented a paper entitled “Common Fixed Point Theorem in Fuzzy Metric Space” in National Seminar on Recent developments in Mathematics and its Applications held on Feb 3, 2012 in Govt. Post Graduate College, sector 9, Gurgron(HR).
7. Attended and presented a paper entitled “Coupled Fixed Point of Weakly Compatible Mappings in Fuzzy Metric Spaces” in National Conference on Spectrum of Information Technology Developments at India’s Perspective SIT@IP-2012 held on Feb 17-18, 2012 in Baba Budha College, Bir Sahib, Tarntaran.

8. Attended and presented a paper entitled “The Quadruple Fixed Point in Fuzzy Metric Spaces” in National Seminar on Applications of Mathematics in Engineering Sciences held on March 17, 2012 in NC College of Engineering , Israna (Panipat).
9. Attended and presented a paper entitled “Fixed Points of Weakly Compatible Maps in Intuitionistic Generalized Fuzzy Metric Spaces” in National Seminar on Mathematics and its Applications held on March 27-28, 2012 in Vaish College, Rohtak.
10. Attended and presented a paper entitled “Fuzzy Metric Spaces and Common Coupled Fixed Point Theorems of Contractive Mappings” in International Conference on History and Development of Mathematical Sciences and Symposium of Nonlinear Analysis, Department of Mathematics, M.D.U. Rohtak during Nov. 21-24, 2012
11. Attended and presented a paper entitled “New Construction of 1-Edge Magic Labeling for Some Classes of Graphs” in National Conference on Advances in Mathematical Sciences & their Applications, Department of Mathematics, Hindu Girls College, Sonipat & The Global Society of Mathematical & Allied Sciences during Mar. 28-30, 2014.
12. Attended and presented a paper entitled “Forth Domination Numbers as Regular Graphs” in National Seminar on Application & Role of Mathematics in Engineering & Social Sciences, BLJS College, Tosham during Mar. 26-27, 2014.
13. Attended and presented a paper entitled “Survey on Intuitionistic Fuzzy Graph” in International Conference on Innovative Trends in Computing Technology & Mathematica, Delhi Institute of Technology & Management Sonipat ,Haryana during Mar. 14, 2015.
14. Acted as a **member of the organising team** of the Blood Donation Camp & Eye Donation Pledge Camp organized by the Department of Mathematics, Maharshi Dayanand University, Rohtak on Sept. 16, 2015 in Department of Mathematics, Maharshi Dayanand University, Rohtak.
15. Acted as **secretary** in the National workshop on “Communication and Soft Skills”, financed out of Dr Radha Krishnan Foundation Fund, Maharshi Dayanand University, Rohtak, Oct 16 , 2015.
16. Attended National workshop as **member of organization team** on “All India Survey on Higher Education Cell”, Maharshi Dayanand University, Rohtak, Nov 20 , 2015.
17. Attended a workshop on “Sexual Harassment and Violence against Women at Workplace” held on Feb. 10, 2016 Maharshi Dayanand University, Rohtak.
18. Acted as **secretary** a one day workshop on "Mathematics : Recent Developments and Scope" in the Department of Mathematics, M.D.U., Rohtak on October 21, 2016 out of Radha Krishnan fund of University.
19. Acted as **secretary** in a national seminar on Recent Developments in Mathematical Sciences (NRDMS-2017) from March 07-08, 2017 sponsored by UGC (SAP).
20. Awarded as **Guest of Honour in the** workshop on “Gender Sensitization and Women Safety at Workplace” organized by SCSHVW, Maharshi Dayanand University, Rohtak, Feb. 09-10, 2016.
21. Attended and presented a paper entitled, “Common Fixed Point of Semi Weakly Compatible Mappings in Generalized M-Fuzzy 2 Metric Space” in international

- conference on Mathematics and Applications, at Ramjas College, University of Delhi, April 26-28, 2017.
22. Attended a national workshop on “E-Governance in India: Issues and Challenges”, conducted by Department of Public Administration, Maharshi Dayanand University, Rohtak, October 05, 2016.
 23. Attended a “One-day Author Workshop” conducted by Vivekaanda Library in association with Elsevier at Radhakrishnan Auditorium, Maharshi Dayanand University, Rohtak, November 18, 2016.
 24. Attended a workshop on “All India Survey on Higher Education”, conducted by AISHE cell of Maharshi Dayanand University, Rohtak, March 17, 2017.
 25. Attended and presented a paper entitled “Fixed Point Theorem in Intuitionistic Fuzzy 3- Metric Space Through Weak Compatibility” in National Conference on "Mathematics and its Applications in Science & Technology" organized by Department of Mathematics, GJUS & T, Hisar, Nov., 09-10, 2016.
 26. Attended and presented a paper entitled, "Intuitionistic Fuzzy Signed Graphs of Second Type" in 21st International Conference of International Academy of Physical Sciences (CONIAPS XXI) on “Symbiotic Development of Mathematical, Physical, Chemical & Computational Sciences” & Symposium on “Recent Advances and Future Directions on Mathematics in Bio-Sciences” organized by Department of Mathematics, GJUS & T, Hisar , on October 28-30, 2017.
 27. Attended and presented a paper entitled, “
”, **International Conference** on Recent Advances in Mathematics (ICRAM-2018) at Aggarwal College, Ballabgarh (Faridabad) Haryana, during February 17-18, 2018.