CURRICULUM VITAE

PROF. DR. ISMAT BEG, CMath.
HEC Distinguished National Professor
Fellow Pakistan Academy of Sciences
Fellow Institute of Mathematics and Its Applications
Fellow International Artificial Intelligent Industry Alliance
Fellow The International Core Academy of Sciences and Humanities

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Web Pages; School, ResearchGate, Mathscinet, zbMATH, Orcid, Publon, Scopus, GoogleScholar

DISTINCTIONS /SCHOLARSHIPS:

1. Distinguished National Professor, Higher Education Commission, Pakistan.
2. Fellow, Pakistan Academy of Sciences, Pakistan.
3. Fellow, Institute of Mathematics and Its Applications (IMA) - England.
4. Fellow, International Artificial Intelligent Industry Alliance, Hong Kong.
5. Fellow, The International Core Academy of Sciences and Humanities – Hong Kong
6. Senior Member, London Mathematical Society.
7. Honorary Full Professor, Institute for Basic Research, Florida, USA.
8. Chartered Scientist, The Science Council, UK.
9. Chartered Mathematician, UK.
10. Research Productivity Award for the years 2010, 2011 & 2012 from Ministry of Science and Technology, Government of Pakistan for the published research work.
11. Pakistan Academy of Sciences Gold Medal 2008 in the field of Mathematics in recognition of outstanding research work.
12. First prize for published work in Mathematics, Lahore University of Management Sciences, Lahore, Pakistan 2005-6 & 2006-7.
13. First prize from National Book Council of Pakistan, Government of Pakistan, for best published research work in mathematics during the year 1986.

14. Academic Roll of Honor, from Government College, Lahore, Pakistan for the year 1972.
15. Scholarship for Doctorate in Mathematics 1978-1981.

RESEARCH APPOINTMENTS:

1. Higher Education Commission (HEC) Approved Supervisor in Mathematics 1988-now.
2. Fellowship (TWAS, Italy)/Visiting Faculty Member Nankai University, People's Republic of China and Chinese Academy of Sciences (P. R. China) June 27 - August 1, 1987.
3. Visiting Mathematician, International Centre for Theoretical Physics, Trieste (Italy) June 6 - August 1, 1990
4. Group Associate Member, International Centre for Theoretical Physics, Trieste (Italy) 1992-1998.
5. Senior Mathematician, International Centre for Theoretical Physics, Trieste (Italy) Jan. 23 - Feb.3, 1997.
6. Senior Guest Scientist, International Centre for Theoretical Physics, Trieste (Italy) July 26 – Aug 4, 2002.
7. Senior Guest Scientist, International Centre for Theoretical Physics, Trieste (Italy) June 18-26, 2006
8. Member, Institute of Advanced Scientific Research, Irvine, CA, (USA) 2009 – now.

AREAS OF INTEREST:

1. Preference modelling, order, lattices, order algebraic structure
2. Fixed point theory and its applications.
3. Multi-criteria decision making problems.
4. Artificial intelligence, big data analysis
5. Best approximations and expansions.
6. Fuzzy sets and systems

EDUCATION:

1.	PhD (Mathematics)	1982	Bucharest University, Bucharest, Romania.
2.	MSc (Mathematics)	1972	Punjab University, Lahore, Pakistan.
3.	BSc	1970	Punjab University, Lahore, Pakistan.

EXPERIENCE:

1. At Department of Mathematics, Quaid-i-Azam University, Islamabad, Pakistan.
   (i) Associate Professor; *Sept. 29, 1991 to Oct.7, 1996*.
   (ii) Assistant Professor; *Feb. 1, 1984 to Sept. 28, 1991*.
   (iii) Lecturer; *Jan. 28, 1982 to Jan. 27, 1983*.
2. Associate Professor, Department of Mathematics, Pakistan Naval Engineering College, Karachi (now part of NUST), Pakistan; *Feb. 1, 1983 to Jan. 31, 1984*.
3. At Department of Mathematics, Kuwait University, Kuwait.
   (i) Professor; *Jan. 18, 1998 to Aug. 31, 2001*.
   (ii) Associate Professor; *Oct. 9, 1993 to Jan. 17, 1998*.
4. At Lahore University of Management Sciences (LUMS), Lahore, Pakistan.
   (i). Scientific Director, Centre for Advanced Studies in Mathematics (*CASM*), School of Science and Engineering, *July 1, 2004 – May 31, 2011*.
   (ii). Head, Department of Mathematics, School of Science and Engineering, *Aug. 21, 2001 – June 30, 2004*.
   (iii). Professor, Department of Mathematics, School of Science and Engineering, *Aug. 21, 2001 – May 31, 2011*.
5. Professor & Director, Centre for Applicable Mathematics and Statistics, UCP Business School, University of Central Punjab, Lahore, Pakistan. *July 11, 2011 – April 15, 2013*.
6. Professor, Centre for Mathematics and Statistical Sciences, Lahore School of Economics, Lahore, Pakistan; *April 17, 2013 – Now.*

RESEARCH PROJECTS (completed as Principal Investigator):

1. Fixed point theory and applications, sponsored by Quaid-i-Azam University, research grant No. DFNS /23-2 / 86-860 (1986-87).
2. Fixed point theory and applications, sponsored by Quaid-i-Azam University research grant No. DFNS / 23 - 2/87-1502 (1987-88).
3. Fixed point theory and applications, sponsored by National Scientific Research and Development Board of Pakistan research grant No. M.SC.(5)/QAU/90 (1991-94).
4. Random fixed point theory and its applications, sponsored by Kuwait University research grant No. SM-108 (1994-95).
5. Some random approximation theorems with applications in fixed point theory, sponsored by Kuwait University research grant No. SM-119 (1995-96).

6. Fuzzy ordered relations, sponsored by Kuwait University research grant No. SM-130 (1996-97).
7. Fuzzy multifunctions, sponsored by Kuwait University research grant No. SM-156 (1997-98).
8. Continuous fuzzy multifunctions, sponsored by Kuwait University research grant No. SM - 169 (1998-99).
9. Random multivalued functions, sponsored by Kuwait University research grant No. SM – 03/00 (2000-01).
10. Study of random fixed points, 9 months project grant sponsored by Lahore University of Management Sciences, (2004-05).
11. Fixed point theory and its applications, sponsored by Higher Education Commission, Islamabad (2008-2011) research grant No. 20-918/R&D/07.
12. Judgement aggregation and belief merging in fuzzy setting, sponsored by Higher Education Commission, Islamabad research grant No. 20-1709/NRPU/R&D/HEC/11 (Grant approved in 2011, but not able to avail it as I moved to UCP which was at that time not in HEC approved list).

EDITORSHIP OF JOURNALS:

1. Member, Editorial Board, Gulf Journal of Mathematics (2024-now)
2. Member, Editorial Board, Proceedings of the Pakistan Academy of Sciences - A (2021 – now).
3. Member, Editorial Advisory Board, Topological Algebra and its Applications (2021 – 2023).
4. Associate Editor, Journal of Function Spaces (2020 – now).
5. Member, Editorial Board, Mathematics and Computational Sciences (2020 – now).
6. Member, Editorial Board, Journal of Mathematical Sciences and Modelling (2018 – now).
7. Member, Editorial Board, Journal of Universal Mathematics (2018 – now).
8. Member, Editorial Board, Journal Vojnotehnicki Glasnik (2017 –2020).
9. Member, Editorial Advisory Board, Proceedings of the Pakistan Academy of Sciences (2015 – 2020).
10. Member, Editorial Board, Punjab University Journal of Mathematics (2015 – now).
11. Member, Editorial Board, Frontiers in Applied Mathematics and Statistics: Fixed Point Theory (2015 – 2020).

12. Member, Editorial Board, Journal of Function Spaces (2013 – now).
13. Member, Editorial Board, International Scholarly Research Notices - Probability and Statistics (2012 – 2017).
14. Member, Editorial Board, Financial Mathematics and Applications (2010 – now).
15. Member, Editorial Board, Journal of Advanced Research in Fuzzy and Uncertain Systems (2009 –2019).
16. Member, Editorial Board, Journal of Advanced Research in Pure Mathematics (2009 – 2019).
17. Member, Editorial Board, Scientific World Journal - Mathematical Analysis (2013 – 2016).
18. Member, Editorial Board, Journal of Nonlinear Sciences and its Applications (2008 – 2015).
19. Member, Editorial Board, Journal of Nonlinear Analysis and its Applications (2008 – 2015).
20. Member, Editorial Board, Set-Valued Mathematics and Applications (2007 – now).
21. Member, Editorial Board, International Journal of Mathematics Sciences (2007 –now).
22. Member, Editorial Board, Advances in Fuzzy Mathematics (2006 – now).
23. Member, Editorial Board, Indian Journal of Mathematics (2006 – 2018).
24. Member, Editorial Board, International Journal of Computational Intelligence (2006 – now).
25. Member, Editorial Board, Applied and Computational Mathematics (2010 – 2012)
26. Member, Editorial Board, Journal Applied Mathematics and Stochastic Analysis (2001 – 2005).

SEMINARS/CONFERENCE TALKS/INVITED LECTURES DELIVERED (repeated seminars are excluded):

1. Spaces of Continuous Functions, Faculty of Mathematics, University of Bucharest (Romania) - 1979.
2. Linear Operators on Locally Convex Spaces, Faculty of Mathematics, University of Bucharest (Romania) -1980.
3. Regular Operators on Banach Lattices, Faculty of Mathematics, University of Bucharest (Romania) -1980.
4. Riesz Spaces, Mathematics Department, Quaid-i-Azam University, Islamabad, (Pakistan)- 1982.

5. An Isomorphism Type Theorem, Mathematics Department, Quaid-i-Azam University, Islamabad, (Pakistan)- 1984.
6. Integral Representation of Linear Operators, International Conference on Banach spaces and Classical Analysis, Kent State University (USA) - 1985.
7. Fixed Point Theorems and Their Applications, Mathematics Department, Quaid-i-Azam University, Islamabad, (Pakistan) - 1986.
8. Dual of a Locally Convex Space, All Pakistan Mathematical Conference, Sind University, Hyderabad, (Pakistan) - 1987.
9. Normal Subspaces of Directed Vector Spaces, Mathematics Department, Quaid-i-Azam University, Islamabad, (Pakistan) - 1987.
10. Ultraproduct and Finite Representability of Banach Lattices, Mathematics Department, Quaid-i-Azam University, Islamabad, (Pakistan)-1988.
11. Coincidence Point of Multivalued Mappings, International Conference on Fixed Point Theory, CIRM, Marseille (France) - 1989.
12. Banach Lattices Isometric with AL-spaces, Mathematics Department, Quaid-i-Azam University, Islamabad, (Pakistan) - 1989.
13. Fixed Points and Coincidence Points of Compatible Multivalued Mappings, International Centre for Theoretical Physics / SISSA, Trieste (Italy) - 1990.
14. Banach Type Fixed Point Theorems for Multivalued Mappings, Mathematics Department, Quaid-i-Azam University, Islamabad, (Pakistan) - 1990.
15. Application of Riesz Spaces in Economics, Second Chittagong Conference on Mathematical Economics and its Relevance for Development, Chittagong (Bangladesh) -1990.
16. Application of Functional Analysis in Economics, Second Regional Workshop on Applications of Mathematics, Bahawalpur (Pakistan) - 1992.
17. Mean Value Inequalities, International Centre for Theoretical Physics, Trieste (Italy) - 1993.
18. Random Fixed Points of Random Multivalued Operators, Department of Mathematics and Computer Science, Kuwait University, (Kuwait) - 1993.
19. Extension of Random Operators, Department of Mathematics and Computer Science, Kuwait University, (Kuwait)-1994.
20. Measurable Selections: In Random Approximations and Fixed Point Theory, 47th British Mathematical Colloquium, Edinburgh (UK) - 1995.

21. On Random Best Approximations, Department of Mathematics and Computer Science, Kuwait University, (Kuwait) - 1996.
22. Fuzzy Ordered Relations, International Centre for Theoretical Physics, Trieste (Italy) - 1997.
23. Random Fixed Point Theory, Department of Mathematics and Computer Science, Kuwait University, (Kuwait) - 1998.
24. Fuzzy Multifunctions, Al-Bairuni Forum 99, Kuwait University (Kuwait) - 1999.
25. Some Random Approximation Theorems with Applications, 4th International Conference on Functional Analysis and Approximation Theory, Acquafredda di Maratea, (Italy) - 2000.
26. Convex Structure in Metric Spaces, Department of Mathematics, Lahore University of Management Sciences, Lahore, (Pakistan) - 2001.
27. Convolution of Fuzzy Multifunctions and Applications, Conference in Mathematical Analysis and Applications, American University of Sharjah, (UAE) - 2001.
28. Some Applications of Fuzzy Ordered Relations, Summer Workshop and Colloquium on Mathematics, Government College University, Lahore, (Pakistan) - 2002.
29. Fuzzy Set Theory, Department of Mathematics, Government College University, Lahore, (Pakistan) - 2003.
30. Minimal Displacement of Random Variables under Lipschitz Random Maps,The 2003 UAE Mathematics Day, University of Sharjah, (UAE) - 2003.
31. Some Open Problems in Fixed Point Theory, LUMS Mathematics Day - 2003, Lahore University of Management Sciences, Lahore, (Pakistan) – 2003.
32. Impact Factors; Use and Abuse, Department of Mathematics, Lahore University of Management Sciences, Lahore, (Pakistan) – 2003.
33. Three Functions of Prices in an Economy, Mathematics Department, Lahore University of Management Sciences, Lahore, (Pakistan) – 2004.
34. Convergence of Iterative Algorithms to Common Random Fixed Points of Random Operators, International Workshop on Operator Theory and its Applications (IWOTA), Newcastle (UK) 2004.
35. Fuzzy and Rough Sets, Summer Workshop in Mathematics, Lahore University of Management Sciences, Lahore, (Pakistan) 2004.
36. Fuzzy Relations, Summer Conference in Mathematics, Lahore University of Management Sciences, Lahore, (Pakistan) 2005.

37. Fixed Point Theory in Fuzzy Setting, Summer School in Fixed Point Theory, Lahore University of Management Sciences, Lahore, (Pakistan) 2005.
38. Fuzzy Transitive Relations, 27th Linz Seminar on Fuzzy Set Theory, Johannes Kepler University, Linz, (Austria) 2006.
39. Some Open Problems in Fixed Point Theory, International Conference on Mathematics, Quaid-i-Azam University, Islamabad, (Pakistan) 2006.
40. Averaging Operators, Workshop on Fuzzy Sets and Systems, Lahore University of Management Sciences, Lahore, (Pakistan) 2006.
41. Belief Functions and Belief Merging, Workshop on Fuzzy Sets and Systems, Lahore University of Management Sciences, Lahore, (Pakistan) 2006.
42. The Contraction Mapping Principle, Weekly Seminar, Centre for Advanced Studies in Mathematics, Lahore University of Management Sciences, Lahore, (Pakistan) 2007.
43. Belief Merging and Belief Conversion, Winter Conference in Mathematics, Lahore University of Management Sciences, Lahore, (Pakistan) 2008
44. Fuzzy Mathematics; Methods, Models and Applications, Conference on Recent Advances in Mathematical Methods, Models and Applications, Lahore University of Management Sciences, Lahore, (Pakistan) 2009.
45. Fuzzy Logic: the concept of fuzziness, Summer Conference in Mathematics, Lahore University of Management Sciences, Lahore, (Pakistan) 2009.
46. Fuzzy Relational Calculus; Summer Undergraduate Research Program'10, Lahore University of Management Sciences, Lahore, (Pakistan) 2010.
47. Set-theoretic aspects of fixed point theory of multivalued operators: open problems, Weekly Seminar, Centre for Advanced Studies in Mathematics, Lahore University of Management Sciences, Lahore, (Pakistan) 2010.
48. Nonlinear Operators; Six Selected Problems, Summer Conference in Mathematics, Lahore University of Management Sciences, Lahore, (Pakistan) 2010.
49. Three fixed point theorems: Some open problems, International Workshop on Nonlinear Problems in Mathematics, COMSTECH, Islamabad, (Pakistan) 2012.
50. Multi criteria group decision making with Choquet integral based TOPSIS, Second Conference on Mathematical Sciences, International Islamic University, Islamabad (Pakistan) 2013.
51. Intermediate value property and its applications, One Day International Symposia on Pure and Applied Mathematics, University of Sargodha, Sargodha (Pakistan) 2014.

52. Fixed points of multivalued mappings, Conference on Recent Advances in Mathematical Methods, Models and Applications, Lahore School of Economics, Lahore, (Pakistan) 2014.
53. Preference modeling in decision making, 1st UMT National Conference on Pure and Applied Mathematics, UMT, Lahore, (Pakistan) 2015.
54. Fuzzy logic in multi-criteria decision analysis, 1st UMT International Conference on Pure and Applied Science, University of Management and Technology, Lahore (Pakistan) 2016.
55. A fuzzy similarity measure, Conference on Recent Advances in Mathematical Methods, Models and Applications, Lahore School of Economics, Lahore, (Pakistan) 2017.
56. Beyond happiness: Optimum strategy, National Conference on Mathematical Sciences, International Islamic University, Islamabad, (Pakistan) 2017.
57. Decision making, Weekly Seminar, Department of Mathematics, Government College University, Lahore (Pakistan) 2017.
58. Fixed point, 2017 International Conference on Mathematics and its Applications, Government College University, Lahore (Pakistan) 2017.
59. Nadler's theorem on weak partial metric spaces, One Day Workshop on Nonlinear Analysis and its Application, Government College University, Lahore (Pakistan) 2018
60. Similarity measures for fuzzy sets, 2018 International Conference on Mathematics and its Applications, Government College University, Lahore (Pakistan) 2018.
61. $S^{JS}-$ Metric and topological spaces, the Second International Sharjah Spring School in Mathematics, University of Sharjah, Sharjah (UAE), 2019.
62. LOVE: Human attitude analysis, Seminar, Centre for Mathematics and Statistical Sciences, Lahore School of Economics, Lahore, (Pakistan) 2019.
63. Generalized metric spaces, Workshop on Solution of Mathematical, Computational and Financial Problem for Scientists and Engineers, National College of Business Administration and Economics, Lahore, (Pakistan), 2019.
64. Fixed point, Conference on Recent Advances in Mathematical Methods, Models and Applications, Lahore School of Economics, Lahore, (Pakistan) 2019.
65. Analytic hierarchy process, Seminar, Centre for Mathematics and Statistical Sciences, Lahore School of Economics, Lahore, (Pakistan) 2019
66. Dissilient interpersonal influences, 3rd UMT Symposium on Fuzzy Analysis, Decision Making and Soft Sets, University of Management and Technology, Lahore, (Pakistan) 2020.

67. Capricious interpersonal influence theory, International Web Conference on Emerging Areas of Mathematics and Mathematical Sciences (IWCEAMMS-2020), Annual Conference of Calcutta Mathematical Society. Calcutta, (India) 2020.
68. Picking of social networking site, Seminar, Department of Mathematics and Statistical Sciences, Lahore School of Economics, Lahore, (Pakistan) 2021.
69. A discussion on innovative research methodology, Pi-Day Celebrations, Abdus Salam School of Mathematical Sciences, GC University, Lahore (Pakistan) 2022.
70. Modelling interpersonal influences, Zoom Seminar, Department of Mathematics, Yildiz Technical University, Istanbul (Turkey) 2022
71. Polytopic fuzzy sets and their applications, A workshop on Recent trends in Mathematical Analysis, Abdus Salam School of Mathematical Sciences, GC University, Lahore (Pakistan) 2022.
72. Fixed point theory of multivalued mappings, International Conference on Algebra, Mathematical Analysis & Simulation (ICAMAS 2022), Calcutta Mathematical Society, (India) 2022.
73. Core of a convex mixture set and convex functions, Conference on Recent Advances in Mathematical Methods, Models and Applications, Lahore School of Economics, Lahore, (Pakistan) 2023.
74. The fractional derivatives, Seminar, Department of Mathematics and Statistical Sciences, Lahore School of Economics, Lahore, (Pakistan) 2023.
75. Beyond happiness: Optimum strategy, Invited talk for Salam Session by LUMS Students' Mathematics Society, Lahore University of Management Sciences, Lahore (Pakistan) 2024
76. Fixed points on partially ordered quasi-metric spaces, Conference on Recent Advances in Mathematical Methods, Models and Applications, Lahore School of Economics, Lahore, (Pakistan) 2024.
77. Effective decision making, Mathematics Departments "'Echoes of Excellence'', NAMAL University, Namal (Pakistan) 2025

REVIEWING and REFEREEING:

1. Reviewer, Mathematical Reviews (USA).
2. Reviewer, Zentralblatt Fur Mathematik (Germany)..
3. Refereed, research projects submitted to Kuwait University, Kuwait.

4. Refereed, books submitted for publication to the Executive Bureau of Authorship, Translation and Publications, Kuwait University, Kuwait.
5. Reviewer for The Natural Sciences and Engineering Research Council of Canada (2007-12).
6. Reviewer for the research projects submitted to the Ministry of Science and Technology Development, Serbia (2010).
7. Reviewer for Post Doctoral Fellowship Program Phase-III (Mathematics), Higher Education Commission of Pakistan, Islamabad (2019).
8. Reviewer for National Research Program for Universities (NRPU), Higher Education Commission of Pakistan, Islamabad (2020).
9. Reviewer for grant applications submitted to the Deanship of Scientific Research at King Saud University, Saudi Arabia (2021)
10. *Refereed papers for the following journals*: (i). J. Fuzzy Sets & Systems (The Netherlands) (ii). J. Applied Mathematics & Stochastic Analysis (USA). (iii) J. Mathematical Analysis & Applications (USA). (iv). J. Nonlinear Analysis: Theory Methods & Applications (UK). (v). J. of Positivity (The Netherlands) (vi). J. Information Sciences (USA). (vii). Indian J. Pure & Applied Mathematics (India). (viii). Kuwait J. Science & Engineering (Kuwait). (ix). J. Natural Sciences & Mathematics (Pakistan) (x). Indian J. Mathematics (India). (xi). Revista Tecnica, Maracaibo (Vinezuela). (xii). Publicationes Mathematicae Debrecen (Hungary). (xiii). Soochow J. of Mathematics (Taiwan). (xiv). Int. J. of Mathematics & Mathematical Sciences (U.S.A.). (xv). Science in China (P.R.China). (xvi) Italian J. of Pure & Applied Mathematics (Italy). (xvii) Radovi Matematicki. (xviii) Punjab University J. Mathematics (Pakistan). (xix) J. Computational & Applied Mathematics (UK). (xx) Fixed Point Theory (Romania). (xxi) Applied Mathematics Letters (USA). (xxii). Mathematics & Computer with Applications (USA). (xxiii). Fixed Point theory and Applications (USA). (xxiv) Int. J. Math. & Math. Sci. (USA) (xxv) Applications & Applied Mathematics: An Int. J. (USA). (xxvi) Mathematical & Computer Modelling (USA). (xxvii) Mathematical Communications (Czech Republic). (xxviii) Proceedings of the Pakistan Academy of Sciences (Pakistan) (xxix). Applied and Computational Mathematics (Azerbaijan) (xxx). ESAIM Probability & Statistics (xxxi). Advances in Operations Research (xxxii). Soft Computing (xxxiii). Applied Soft Computing

MEMBERSHIP OF PROFESSIONAL SOCIETIES:

1. Senior Member, London Mathematical Society.
2. Member, American Mathematical Society.
3. Member, European Mathematical Society.
4. Member, Asian Council of Science Editors (ACSE)
5. Member, International Federation of Nonlinear Analysts.
6. Member, International Rough Set Society.
7. Chartered Member, Society for Mathematics of Uncertainty.
8. Member, The Creative Decisions Foundation.
9. Member, Belief Functions and Applications Society
10. Member, International Society on Multiple Criteria Decision Making
11. Life Member, Punjab Mathematical Society.
12. Life Member, All Pakistan Mathematical Association.
13. Life Member, Allahabad Mathematical Society.
14. Member, International Computational Intelligence Society.
15. Member, Research Group in Mathematical Inequalities and Applications.
16. Member, EUSFLAT Working group "Intuitionistic Fuzzy Sets: Theory, Applications and Related Topics".

CONFERENCES ATTENDED:

1. Romanian 1st National Symposium on 'Ordered Vector Spaces', Craiova University, (Romania) 1979.
2. Romanian 2nd National Symposium on 'Ordered Vector Spaces', Brasov University, (Romania) 1980.
3. International Conference on Banach Spaces and Classical Analysis, Kent State University, Kent, Ohio, (USA) 1985.
4. All Pakistan Mathematical Conference, Quaid-i-Azam University, Islamabad, (Pakistan) 1985.
5. All Pakistan Mathematical Conference, Sind University, Hyderabad, (Pakistan) 1987.
6. College on Global, Geometric and Topological Methods in Analysis, International Centre for Theoretical Physics, Trieste, (Italy) 1988.
7. International Conference on Fixed Point Theory and its Applications, International Centre for Mathematical Meetings (CIRM), Marseille (France) 1989.

8. Second Chittagong Conference on Mathematical Economics and its Relevance for Development, Chittagong University, (Bangladesh) 1990.
9. Second Regional Workshop on Application of Mathematics, Islamia University, Bahawalpur, (Pakistan) 1992.
10. Workshop on Representation Theory of Lie Groups, International Centre for Theoretical Physics, Trieste, (Italy) 1993.
11. 47th British Mathematical Colloquium, Edinburgh University, (UK) 1995.
12. Recent Advances in Applied Mathematics, Kuwait University, (Kuwait) 1996.
13. Spring School on Functional Analysis - 1996, Paseky, (Czech Republic) 1996.
14. School on the Mathematics in Economics, International Centre for Theoretical Physics, Trieste, (Italy) 1998.
15. Al-Bairuni Forum 99, Kuwait University, (Kuwait) 1999.
16. 4th International Conference on Functional Analysis and Approximation Theory, Acquafredda di Maratea, (Italy) 2000.
17. Conference in Mathematical Analysis and Applications, American University of Sharjah, (UAE) 2001.
18. LUMS Functional Analysis Day, Lahore University of Management Sciences, Lahore, (Pakistan) 2002.
19. Summer Workshop and Colloquium on Mathematics, Government College, Lahore, (Pakistan) 2002.
20. Negotiation Skills Programme, Rausing Executive Development Centre, Lahore University of Management Sciences, Lahore, (Pakistan) 2002.
21. 2002 South and Southeast Asia Regional meeting of Econometric Society, Lahore University of Management Sciences, Lahore, (Pakistan) 2002.
22. The 2003 UAE Mathematics Day, University of Sharjah, (UAE) 2003.
23. LUMS Mathematics Day-2003, Lahore University of Management Sciences, Lahore, (Pakistan) 2003.
24. LUMS Mathematics Day-2004, Lahore University of Management Sciences, Lahore, (Pakistan) 2004.
25. International Workshop on Operator Theory and its Applications (IWOTA), Newcastle (UK) 2004.
26. Summer Workshop in Mathematics, Lahore University of Management Sciences, Lahore, (Pakistan) 2004.

27. Winter Conference in Mathematics, Lahore University of Management Sciences, Lahore, (Pakistan) 2004.
28. Workshop on Stochastic Calculus, Lahore University of Management Sciences, Lahore, (Pakistan) 2004.
29. Workshop on Particle Physics and The Early Universe, Lahore University of Management Sciences, Lahore, (Pakistan) 2005.
30. Workshop on Computational Number Theory and Cryptography, Lahore University of Management Sciences, Lahore, (Pakistan) 2005.
31. Workshop on Data Mining, Lahore University of Management Sciences, Lahore, (Pakistan) 2005.
32. Summer Conference in Mathematics, Lahore University of Management Sciences, Lahore, (Pakistan) 2005.
33. Summer School in Fixed Point Theory, Lahore University of Management Sciences, Lahore, (Pakistan) 2005.
34. Workshop on Leading a Doctoral Mathematics Department in 21st Century, Lahore University of Management Sciences, Lahore, (Pakistan) 2005.
35. LUMS International Conference on Mathematics and its Applications, Lahore University of Management Sciences, Lahore, (Pakistan) 2005.
36. 27th Linz Seminar on Fuzzy Set Theory: Preferences, Games and Decisions, Johannes Kepler University, Linz, (Austria) 2006.
37. Summer Conference in Mathematics, Centre for Advanced Studies in Mathematics, Lahore University of Management Sciences, Lahore, (Pakistan) 2006.
38. Workshop on Fuzzy Sets and Systems, Centre for Advanced Studies in Mathematics, Lahore University of Management Sciences, Lahore, (Pakistan) 2006.
39. International Conference in Mathematics, Quaid-i-Azam University, Islamabad, (Pakistan) 2006.
40. Winter Conference in Mathematics, Centre for Advanced Studies in Mathematics, Lahore University of Management Sciences, Lahore, (Pakistan) 2006.
41. Learning Technologies and Mathematics Middle East Conference, Sultan Qaboos University, Muscat, (Oman) 2007.
42. Conference on Recent Advances in Mathematical Methods, Models and Applications, Lahore University of Management Sciences, Lahore, (Pakistan) 2007.
43. Summer Conference in Mathematics, Lahore University of Management Sciences, Lahore, (Pakistan) 2007.

44. All Pakistan Mathematical Conference, Pakistan Academy of Sciences, (Pakistan) 2007.
45. Conference on What Counts as an Educated Individual in This Day and Age, Lahore University of Management Sciences, Lahore, (Pakistan) 2008.
46. Conference on Recent Advances in Mathematical Methods, Models and Applications, Lahore University of Management Sciences, Lahore, (Pakistan) 2008.
47. Summer Conference in Mathematics, Lahore University of Management Sciences, Lahore, (Pakistan) 2008.
48. Winter Conference in Mathematics, Lahore University of Management Sciences, Lahore, (Pakistan) 2008.
49. Conference on Recent Advances in Mathematical Methods, Models and Applications, Lahore University of Management Sciences, Lahore, (Pakistan) 2009.
50. Summer Conference in Mathematics, Lahore University of Management Sciences, Lahore, (Pakistan) 2009.
51. Winter Conference in Mathematics, Lahore University of Management Sciences, Lahore, (Pakistan) 2010.
52. Conference on Recent Advances in Mathematical Methods, Models and Applications Lahore University of Management Sciences, Lahore, (Pakistan) 2010.
53. Summer Conference in Mathematics, Lahore University of Management Sciences, Lahore, (Pakistan) 2010.
54. Conference on Recent Advances in Mathematical Methods, Models and Applications Lahore University of Management Sciences, Lahore, (Pakistan) 2011.
55. Eighth Annual Conference on Management of Pakistan Economy, Lahore School of Economics, Lahore, (Pakistan) 2012.
56. International Workshop on Nonlinear Problems in Mathematics, COMSTECH, Islamabad, (Pakistan) 2012
57. Conference on Recent Advances in Mathematical Methods, Models and Applications University of Central Punjab, Lahore, (Pakistan) 2013.
58. Second Conference on Mathematical Sciences, International Islamic University, Islamabad (Pakistan) 2013.
59. One Day International Symposia on Pure and Applied Mathematics, University of Sargodha, Sargodha (Pakistan) 2014.
60. Conference on Recent Advances in Mathematical Methods, Models and Applications Lahore School of Economics, Lahore, (Pakistan) 2014.

61. National Science Conference, International Centre for Chemical and Biological Sciences, University of Karachi, Karachi (Pakistan) 2014.
62. Cross-Disciplinary Research Conference: Emerging Perspective for Research in Social Sciences, Management and ICT, Global Institute, Lahore (Pakistan) 2014.
63. First Annual Conference of Centre for Mathematics and Statistical Sciences, Lahore School of Economics, Lahore, (Pakistan) 2015.
64. 1st UMT National Conference on Pure and Applied Mathematics, U M T, Lahore, (Pakistan) 2015.
65. Conference on Recent Advances in Mathematical Methods, Models and Applications Lahore School of Economics, Lahore, (Pakistan) 2015.
66. International Conference on Recent Advances in Applied Mathematics, C I I T , Lahore (Pakistan) 2015.
67. Ist UMT International Conference on Pure and Applied Science, U M T, Lahore (Pakistan) 2016.
68. Conference on Recent Advances in Mathematical Methods, Models and Applications Lahore School of Economics, Lahore, (Pakistan) 2016
69. Understanding Salam, Abdus Salam School of Mathematical Sciences, G C University, Lahore, (Pakistan) 2017.
70. Conference on Recent Advances in Mathematical Methods, Models and Applications Lahore School of Economics, Lahore, (Pakistan) 2017.
71. National Conference on Mathematical Sciences, International Islamic University, Islamabad, (Pakistan) 2017.
72. International Conference on Mathematics and its Applications, Government College University, Lahore (Pakistan) 2017.
73. Conference on Recent Advances in Mathematical Methods, Models and Applications Lahore School of Economics, Lahore, (Pakistan) 2018.
74. One Day Workshop on Nonlinear Analysis and its Application, Government College University, Lahore (Pakistan) 2018.
75. 2018 International Conference on Mathematics and its Applications, Government College University, Lahore (Pakistan) 2018.
76. The Second International Sharjah Spring School in Mathematics, University of Sharjah, Sharjah (UAE), 2019

77. Workshop on Solution of Mathematical, Computational and Financial Problem for Scientists and Engineers,, National College of Business Administration and Economics, Lahore, (Pakistan), 2019.
78. Conference on Recent Advances in Mathematical Methods, Models and Applications, Lahore School of Economics, Lahore, (Pakistan) 2019
79. 3rd UMT Symposium on Fuzzy Analysis, Decision Making and Soft Sets, University of Management and Technology, Lahore, (Pakistan) 2020.
80. International Online Workshop on "New Trends in Fuzzy and Rough Set Theory and its Applications", Department of Mathematics and Statistics, Manipal University Jaipur, (India) 2020.
81. Black Heroes of Mathematics Conference, British Society for The History of Mathematics, (UK) 2020
82. A workshop on Recent trends in Mathematical Analysis, Abdus Salam School of Mathematical Sciences, GC University, Lahore (Pakistan) 2022.
83. Conference on Recent Advances in Mathematical Methods, Models and Applications, Lahore School of Economics, Lahore, (Pakistan) 2023
84. Conference on Recent Advances in Mathematical Methods, Models and Applications, Lahore School of Economics, Lahore, (Pakistan) 2024
85. 11th Annual Conference of the Asian Council of Science Editors (ACSE), (UAE) 2025

CONFERENCES / WORKSHOPS / SCHOOLS ORGANIZED:

1. Member, Conference Committee, All Pakistan Mathematical Conference, Islamabad, Pakistan 1985.
2. Member, Organizing Committee, International Conference on Probability and Statistics, Islamabad, Pakistan 1991.
3. Member (i) International Scientific Committee and (ii) International Finance Committee, Fourth Islamic Countries Conference on Statistical Sciences (August 27-31, 1994) Lahore, Pakistan.
4. Member, International Program Committee of 8th Fuzzy Theory and Technology Conference (March 8-14, 2002), Durham, North Carolina, USA.
5. Organized, LUMS Functional Analysis Day, March 9, 2002, Lahore University of Management Sciences, Lahore, Pakistan.

6. Member, International Program Committee, the International Conference on Computational Intelligence (ICCI '2004) February 11-13, 2004, Canakale Onsekiz Mart University, Canakkale, Turkey.
7. Convener, Organizing Committee, Summer Workshop in Mathematics (August 16-20, 2004), Lahore University of Management Sciences, Lahore, Pakistan.
8. Member, International Program Committee of 10th International Conference on Fuzzy Theory and Technology (July 21-26, 2005), Salt Lake City, Utah, USA.
9. Convener, Organizing Committee, Winter Conference in Mathematics (December 3-4, 2004), Lahore University of Management Sciences, Lahore, Pakistan.
10. Organized Workshop on Particle Physics and the Early Universe (April 2-3, 2005), Lahore University of Management Sciences, Lahore, Pakistan.
11. Organized Summer School in Fixed Point Theory (Aug. 1-7, 2005), Lahore University of Management Sciences, Lahore, Pakistan.
12. Member, Organizing Committee, Workshop on Leading a Doctoral Mathematics Department in 21st Century" (September 24-25, 2005), Lahore University of Management Sciences, Lahore, Pakistan.
13. Member, Organizing Committee, LUMS International Conference on Mathematics (Nov. 27-30, 2005), Lahore University of Management Sciences, Lahore, Pakistan.
14. Organized Workshop on Financial Mathematics (Dec. 24-25, 2005), Lahore University of Management Sciences, Lahore, Pakistan.
15. Member, Program Committee, 11th International Conference on Fuzzy Theory and Technology (FTT) (Oct 8-11, 2006), Taiwan, China.
16. Organized Workshop on Randomness and Cryptography (April 29-30, 2006), Lahore University of Management Sciences, Lahore, Pakistan.
17. Organized Workshop on Mathematics of Risk Management (Nov. 28-29, 2006), Lahore University of Management Sciences, Lahore, Pakistan.
18. Organized Workshop on Fuzzy Sets and Systems (June 10-11, 2006), Lahore University of Management Sciences, Lahore, Pakistan.
19. Organized Workshop on Data Analysis (March 10-11, 2007), Lahore University of Management Sciences, Lahore, Pakistan.
20. Organized Workshop on Intelligent Data Analysis Methods in Functional Genomics (March 17-18, 2007), Lahore University of Management Sciences, Lahore, Pakistan.

21. Member Organizing Committee, Conference on Recent Advances in Mathematical Methods, Models and Applications (April 28-29, 2007), Lahore University of Management Sciences, Lahore, Pakistan.
22. Member, Scientific Committee, 3rd National Conference on Statistical Sciences (May 28-29, 2007), NUES-FAST, Lahore, Pakistan.
23. Member Organizing Committee, All Pakistan Mathematical Conference (June 7-9, 2007), Pakistan Academy of Sciences, Islamabad, Pakistan.
24. Organized a workshop on Innovative Teaching Methodologies for Mathematics and Science Teachers (August 20-21, 2007), Lahore University of Management Sciences, Lahore, Pakistan.
25. Member Organizing Committee, Conference on What Counts as an Educated Individual in This Day and Age (April 18-19, 2008), Lahore University of Management Sciences, Lahore, Pakistan.
26. Member Organizing Committee, Conference on Recent Advances in Mathematical Methods, Models and Applications (April 26-27, 2008), Lahore University of Management Sciences, Lahore, Pakistan.
27. Member, Program Committee, 13th International Conference on Fuzzy Theory and Technology (FT&T) (Dec. 15-20, 2008), Harbin Institute of Technology, Shenzhen, China
28. Member, Advisory Committee Fifth International Conference on Statistical Sciences, (Jan. 23-25, 2009), NCBA&E, Lahore, Pakistan
29. Member Organizing Committee, Conference on Recent Advances in Mathematical Methods, Models and Applications (April 18-19, 2009), Lahore University of Management Sciences, Lahore, Pakistan.
30. Member Organizing Committee, Conference on Recent Advances in Mathematical Methods, Models and Applications (April 17-18, 2010), Lahore University of Management Sciences, Lahore, Pakistan.
31. Member Organizing Committee, Conference on Recent Advances in Mathematical Methods, Models and Applications (April 16-17, 2011), Lahore University of Management Sciences, Lahore, Pakistan.
32. Member Conference Executive Committee, 2nd International Conference on Contemporary Issue in Business Management (July 4-6, 2012), University of Central Punjab, Lahore, Pakistan.

33. Member Scientific Committee, International Conference on Nonlinear Modeling & Optimization (August 28-29, 2012), Shomal University, Amol, Iran.
34. Member Organizing Committee, Conference on Recent Advances in Mathematical Methods, Models and Applications (April 13-14, 2013), University of Central Punjab, Lahore, Pakistan.
35. Member Organizing Committee, Conference on Recent Advances in Mathematical Methods, Models and Applications (April 19-20, 2014), Lahore School of Economics, Lahore, Pakistan.
36. Member Organizing Committee, Conference on Recent Advances in Mathematical Methods, Models and Applications (April 11-12, 2015), Lahore School of Economics, Lahore, Pakistan
37. Member Scientific Committee, 2nd International Intuitionistic Fuzzy Sets Conference (October 14-18, 2015), Mersin, Turkey.
38. Member, International Advisory Board, Ist UMT International Conference on Pure and Applied Science (March 05-07, 2016), UMT Lahore (Pakistan) 2016.
39. Member Organizing Committee, Conference on Recent Advances in Mathematical Methods, Models and Applications (April 09-10, 2016), Lahore School of Economics, Lahore, Pakistan.
40. Member Scientific Committee, 3th International Intuitionistic Fuzzy Sets Conference (August 29 – September 01, 2016), Mersin, Turkey.
41. Member Technical Committee, SAI Intelligent Systems Conference 2016, (September 21-22, 2016), London, UK.
42. Member Organizing Committee, Conference on Recent Advances in Mathematical Methods, Models and Applications (April 08-09, 2017), Lahore School of Economics, Lahore, Pakistan.
43. Member Organizing Committee, Conference on Recent Advances in Mathematical Methods, Models and Applications (April 07-08, 2018), Lahore School of Economics, Lahore, Pakistan
44. Member Scientific Committee, 5th International IFS and Contemporary Mathematics Conference (IFSCOM2018) (September 05–09, 2018), Kahramanmaraş, Turkey.
45. Member Organizing Committee, Conference on Recent Advances in Mathematical Methods, Models and Applications, Lahore School of Economics, (April 13-14, 2019), Lahore, (Pakistan) .

46. Member International Scientific Advisory Committee, Twenty-Eight International Conference of FIM on Interdisciplinary Mathematics, Statistics and Computational Intelligence Techniques (IMSCIT-2019), University of Chile, Santiago, Chile (19-21 November 2019).
47. Member Advisory Committee, 1st International Conference on Mathematical Modeling, Computational Intelligence Techniques and Renewable Energy, Pandit Deendayal Petroleum University, India (February 21-23rd, 2020).
48. Member Organizing Committee, Conference on Recent Advances in Mathematical Methods, Models and Applications (April 11-12, 2020), Lahore School of Economics, Lahore, Pakistan
49. Member Scientific Committee, International Conference of Analysis and Its Applications (ICAA_Nepal_2020), Kathmandu University, Nepal (May 29 –31, 2020).
50. Member Organizing Committee, Conference on Recent Advances in Mathematical Methods, Models and Applications, Lahore School of Economics, (March 4-5, 2023), Lahore, (Pakistan) .
51. Member Organizing Committee, Conference on Recent Advances in Mathematical Methods, Models and Applications, Lahore School of Economics, (March 2-3, 2024), Lahore, (Pakistan) .

TEACHING and SUPERVISION:

A. Taught the following courses

Undergraduate

(i) Calculus, (ii) Linear Algebra, (iii) Set Theory, (iv) Foundation of Modern Mathematics, (v) Finite Mathematics, (vi) Fuzzy Mathematics, (vii) Real Analysis, (viii) General Topology, (ix) Functional Analysis, (x) Ordinary Differential Equations, (xi) Complex Variables, (xii) Statistics.

Graduate

(i) Real Analysis, (ii) Functional Analysis, (iii) General Topology, (iv) Measure Theory, (v) Topological Vector Spaces, (vi) Ordered Vector Spaces, (vii) Banach Lattices, (viii) Fixed Point Theory, (ix) Set Valued Analysis, (x) Best Approximations.

B. Graduate Students Supervised

HEC APPROVED PhD supervisor

Advisees

1. Ayesha Syed, Fuzzy Judgement Aggregation: Methods Based on Distance – 2016 MPhil
2. Tabasam Rashid, Multi-criteria Decision Making with Choquet Integral , 2015 PhD
3. Dr. Shams-ur-Rehman, Fixed Point on Fuzzy Metric/Normed Spaces, 2013, PhD
4. Dr. Asif Jamshed, 2010-11, Post Doc.
5. Dr. Asma Rashid Butt, 2010-11, Post Doc.
6. Asma Rashid Butt, Fixed Point of Set Valued Maps, 2010, PhD
7. Dr. Osinuga Idowu Ademola, 2010, Post Doc.
8. Dr. Khalid Mahmood Aamir, 2009-10, Post Doc.
9. Dr. Memudu Olaposi Olatinwo, 2009-10, Post Doc.
10. Dr. Samina Ashraf, 2009-10, Post Doc.
11. Dr. Kunle Oladeji Babalola, 2008-09, Post Doc.
12. Dr. Sarmad Abbasi, 2008-09, Post Doc.
13. Samina Ashraf, Fuzzy Relations, 2008, PhD
14. Dr. Tirivanhu Chinyoka, 2007-08, Post Doc.
15. Dr. Raouf Ghomrasni, 2006-07, Post Doc.
16. Mujahid Abbas, Solution of Random Operator Equations and Inclusions, 2005, PhD
17. Misbah-ul-Islam, Fuzzy Riesz Spaces, 1994, MPhil
18. Rashid Ali, Study of Probabilistic Spaces, 1994, MPhil
19. Naseer Shahzad, Random Fixed Points and Approximations, 1995, PhD
20. Muhammad Arshad, Fuzzy Almost Linear Sapces, 1993, MPhil
21. Farhat Bashir, Approximation in Probabilistic Normed Spaces, 1993, MPhil
22. Akbar Azam, Fixed Points of Mutivalued Maps, 1992, PhD
23. Muhammad Iqbal, Hahn-Banach Type Theorems for 2-Normed Spaces, 1992, MPhil
24. Naseer Shahzad, On Random Fixed Point Theorems and Applications , 1992, MPhil
25. Shafiq-ur-Rehaman, Fixed Point Theorems in Probabilistic Metric Spaces, 1991, MPhil
26. Tahira Yasmeen Minhas, Fixed Point Theorems for Generalized Contractions, 1989, MPhil
27. Faryad Ali, Fixed Point Theorems in Vector Lattices, 1989, MPhil.

28. Nadeem Raza, Integral Representation of Linear Operators, 1987, MPhil.
29. Akbar Azam, Fixed Point Theorems, 1986, MPhil.

MEMBERSHIP OF COMMITTEES and HONORARY POSITIONS:

1. Member, Executive Council, Academic Staff Association, Quaid-i-Azam University, Islamabad, Pakistan (1982-83 & 1984-85).
2. Coordinator, Pre-print Series, Department of Mathematics, Quaid-i-Azam University, Islamabad, Pakistan (1985-1987).
3. Professor Chuan-Gan Hu, Nankai University (PR China) visited me in (1988) on TWAS-fellowship.
4. Coordinator, Seminar Series, Department of Mathematics, Quaid-i-Azam University, Islamabad, Pakistan (1988-1990).
5. Professor Gong Weibang, Chairman, Mathematics Department, Qufu Normal University (PR China) visited me in 1989 on TWAS-fellowship.
6. Associate Member, Third World Organization of Women in Sciences, Trieste, Italy (1990-2000).
7. Member, Graduate Committee, Department of Mathematics, Quaid-i-Azam University, Islamabad, Pakistan (1990-1992).
8. Student Advisor (Academic), Department of Mathematics, Quaid-i-Azam University, Islamabad, Pakistan (1990-1993).
9. Member, Board of Studies, Department of Mathematics, Quaid-i-Azam University, Islamabad, Pakistan (1991-1993).
10. Member, Board of Faculty of Natural Sciences, Quaid-i-Azam University, Islamabad, Pakistan (1991-1993).
11. Acting Chairman, Department of Mathematics, Quaid-i-Azam University, Islamabad, Pakistan (June - September 1992).
12. Member Curriculum Committee, Department of Mathematics and Computer Science, Kuwait University, Kuwait (1993-1997).
13. My biography is included in (i). Marquis Who's Who in the world [15th Edition] for 1998. (ii). International Who's Who of Contemporary Achievement (Fourth Edition) [ABI]. (iii). International Directory of Distinguished Leadership (6) (1996).
14. Member Library & Text Books Committee, Department of Mathematics and Computer Science, Kuwait University, Kuwait (1998-1999).

15. Member Seminar Committee, Department of Mathematics and Computer Science, Kuwait University, Kuwait (1999-2000).
16. Member, Committee to study the possibility of starting double major in Mathematics and Economics, Department of Mathematics and Computer Science, Kuwait University, Kuwait (1999 – 2000).
17. Member, Committee to study the possibility of opening a new Master Program in Financial Mathematics, Department of Mathematics and Computer Science, Kuwait University, Kuwait (1999-2000).
18. Member, Comprehensive Exam Committee for graduate class, Department of Mathematics and Computer Science, Kuwait University, Kuwait (2000-2001).
19. Member, Faculty Appointment and Promotion Committee, Lahore University of Management Sciences, Lahore, Pakistan (2001 – 2004).
20. Member, BSc (Honors) Admission Committee, Lahore University of Management Sciences, Lahore, Pakistan (2001 – 2004).
21. Member, Steering Committee, School of Arts and Sciences, Lahore University of Management Sciences, Lahore, Pakistan (2001 – 2004).
22. Member, Academic Planning and Co-ordination Forum, Lahore University of Management Sciences, Lahore, Pakistan (2001 – 2004).
23. Member, Research Committee, Lahore University of Management Sciences, Lahore, Pakistan (2001 – 2003).
24. Participated in workshop on establishment of "School of Mathematical Sciences" (Sept. 22, 2001), Government College, Lahore, Pakistan.
25. Member, Committee for establishment of School of Mathematical Sciences, Government of Punjab, Lahore, Pakistan (2001 – 2002).
26. Convener, subcommittee on LUMS Press, Lahore University of Management Sciences, Lahore, Pakistan (2002).
27. Member, Board of Studies (Department of Mathematics), COMSATS Institute of Information Technology, Islamabad, Pakistan (2002 - 2008).
28. Member, Board of Governors, School of Mathematical Sciences, Lahore, Pakistan (2002 – 2004).
29. Member (expert), Selection Board, Government College, Lahore, Pakistan (2002).
30. Member, Administrative Planning Committee, Lahore University of Management Sciences, Lahore, Pakistan (2002 – 2004).

31. Member, Committee on Research and Teaching Model, Lahore University of Management Sciences, Lahore, Pakistan (2002 - 2003).
32. Member, Search Committee for Head Economics Department, Lahore University of Management Sciences, Lahore, Pakistan (2003).
33. Convener, Mathematics Graduate Committee, Lahore University of Management Sciences, Lahore, Pakistan (2003 – 2006).
34. Convener/member, PhD (Mathematics) Interview Committee, Lahore University of Management Sciences, Lahore, Pakistan (Convener 2003, 2004, 2006; member 2005, 2007, 2008, 2009).
35. Member, Pakistan Academy of Sciences Committee for Pakistan's membership in International Mathematical Union (IMU) (2004- 2005).
36. Focal Person, for federation agreement between International Centre for Theoretical Physics, Trieste, Italy and LUMS (2004 - 2011).
37. Member, Board of Studies for Mathematics, Balochistan University of Information Technology and Management Sciences, Quetta, Pakistan (2004- 2005).
38. Convener, LUMS Research Culture Committee to study initiative to develop research culture at Lahore University of Management Sciences, Lahore, Pakistan (2004).
39. Member, Scientific Council, Centre for Advanced Studies in Mathematics, Lahore University of Management Sciences, Lahore, Pakistan (2004 – 2011).
40. Member, Friends of Centre for Advanced Studies in Mathematics, Lahore University of Management Sciences, Lahore, Pakistan (2004 – 2011).
41. Member, Postgraduate Research Committee, Department of Mathematics, University of Engineering and Technology, Lahore, Pakistan (2004 – 2006).
42. Member, Disciplinary Appeals Committee (DAC), Lahore University of Management Sciences, Lahore, Pakistan (2004-2006).
43. Acting Dean, School of Arts and Sciences, Lahore University of Management Sciences, Lahore, Pakistan (July 2005).
44. Convener, Disciplinary Appeals Committee (DAC), Lahore University of Management Sciences, Lahore, Pakistan (2006).
45. Member, Dean's Council, School of Science and Engineering, Lahore University of Management Sciences, Lahore, Pakistan (2006 - 07).
46. Acting Head, Mathematics Department, Lahore University of Management Sciences, Lahore, Pakistan (July-August, 2006).

47. Member, Adhering Committee for Mathematics, Pakistan Academy of Sciences which represents Pakistan in International Mathematical Union (2006 - 2012).
48. Member, Faculty Search Committee, Mathematics Department, Lahore University of Management Sciences, Lahore, Pakistan (2006 - 2011).
49. Member, Mathematics Graduate Committee, Lahore University of Management Sciences, Lahore, Pakistan (2006 – 2011).
50. Member, Founding Steering Committee, Consortium of Universities for Research and Graduate Education (COURAGE), Kent State University, Ohio, USA (2007- now)
51. Vice President, All Pakistan Mathematical Association 2007-08.
52. Focal Person, for TWAS-UNESCO fellowship agreement between Academy of Sciences for Developing Countries, Trieste, Italy and LUMS (2007 - 2011).
53. Member, Graduate Committee, National University of Emerging Sciences - FAST, Lahore, Pakistan (2007-09).
54. Member, Board of Advanced Studies and Research, Department of Mathematics, Lahore University of Management Sciences, Lahore, Pakistan (2008).
55. Member, Undergraduate Admissions Committee, Lahore University of Management Sciences, Lahore, Pakistan (2009)
56. Member, Chairman Mathematics Search Committee, Lahore University of Management Sciences, Lahore, Pakistan (2009).
57. Member, Committee on the Status of Mathematics Major (BA/BSc), Lahore University of Management Sciences, Lahore, Pakistan (2010).
58. Knight, WWF - Pakistan (2010 - now).
59. Member, Convocation Committee, Lahore University of Management Sciences, Lahore, Pakistan (2011).
60. Subject Expert, Board of Studies in Mathematics, International Islamic University, Islamabad, Pakistan (2010 - now).
61. Member, Expert Committee (Mathematics), Pakistan Academy of Sciences, Islamabad, Pakistan (Biennium 2011- 2112 & 2113-2114).
62. Member, Academic Council, University of Central Punjab, Lahore, Pakistan (2011-2013).
63. Member, Selection Committee, Faculty of Management Studies, University of Central Punjab, Lahore, Pakistan (2012 - 2013).
64. Member, Graduate Research Committee, Faculty of Management Studies, University of Central Punjab, Lahore, Pakistan (2012 - 2013).

65. Member, Assessment and Evaluation Committee, Faculty of Management Studies, University of Central Punjab, Lahore, Pakistan (2012 - 2013).
66. Member, Academic Committee, Lahore School of Economics, Lahore, Pakistan (2013 – now).
67. Member, Board of Studies of Center of Mathematics and Statistics, Lahore School of Economics, Lahore, Pakistan (2016 – now).
68. Member, Board of Faculty of Basic Sciences, Lahore School of Economics, Lahore, Pakistan (2018 – now).
69. Member, Tenure Review Committee, Department of Mathematics, Government College University, Lahore, Pakistan (2018 – now).
70. Reviewer for Post Doctoral Fellowship Program Phase-III (Mathematics), Higher Education Commission of Pakistan, Islamabad (2019).
71. Subject Member Selection Board, Government College University, Lahore (2019).
72. Domain Expert for Selection Board, Virtual University of Pakistan, (2019).
73. Member, Tenure Review Committee, Department of Mathematics, Lahore College for Women University, Lahore, Pakistan 2020 – 2021).
74. Reviewer for National Research Program for Universities (NRPU), Higher Education Commission of Pakistan, Islamabad (2020).
75. Reviewer for grant applications submitted to the Deanship of Scientific Research at King Saud University, Saudi Arabia (2021)
76. Reviewer for Post Doctoral Fellowship Program Phase-III (Batch 2) (Mathematics), Higher Education Commission of Pakistan, Islamabad (2021).
77. Reviewer for National Research Program for Universities (NRPU), Higher Education Commission of Pakistan, Islamabad (2021).
78. Reviewer for the Full Project Proposal Stage under the National Research Program for Universities (NRPU), Higher Education Commission of Pakistan, Islamabad (2022).

BOOKS/CHAPTERS:

1. *Book chapter;* Cubic Analytic Hierarchy Process with application in decision making. Book Chapter in *Decision Making under Uncertainty via Optimization, Modelling and Analysis.* (Edited by Laxminarayan Sahoo, Tapan Senapati and Ronald R. Yager) Studies in Systems, Decision and Control, book series 558 . Publisher Springer

2025 (co-authors M. Gulistan and M. Asif). https://doi.org/10.1007/978-981-96-0085-4_10

2. *Book chapter*; Interval-valued intuitionistic hesitant uncertain linguistic set and Choquet integral based TOPSIS method to MCGDM problems, Book Chapter in *Decision Making and Decision Support in the Information and AI Era - Dedicated to Academician Florin Gheorghe Filip* (Edited by Valentina Emilia Balas, Gintautas Dzemyda, Smaranda Belciug and Janusz Kacprzyk) Studies in Systems, Decision and Control, book series 534. Publisher Springer **2024** (co-authors D.K. Joshi and S. Kumar) https://doi.org/10.1007/978-3-031-62158-1_18.
3. *Book chapter*; Bilevel Approach for E-Bidding auction with Regret Theory, Book Chapter in *Real Life Applications of Multiple Criteria Decision-Making Techniques in Fuzzy Domain* (Edited by Laxminarayan Sahoo, Tapan Senapati and Ronald R. Yager) ISBN 978-981-19-4928-9 Studies in Fuzziness and Soft Computing Series. Publisher Springer Nature Singapore Pte Ltd. **2023** (co-authors T. Rashid and A. Mehboob). https://doi.org/10.1007/978-981-19-4929-6_15
4. *Book chapter*; A study of neutrosophic cubic finite state machines, subsystems and applications, Book Chapter in *Neutrosophic Operational Research: Methods and Applications*. (Edited by Florentin Smarandache and Mohamed A. Baset) ISBN 978-3-030-57197-9 (Chapter 24, 519-558) Publisher: Springer Nature Switzerland **2021** (co-authors M. Gulistan and M.J. Abbasi).
5. *Book;* Solution of Random Operator Equations and Inclusions (ISBN 978-3-8443-1013-9), Lambert Academic Publisher, Germany **2011** (co author M. Abbas).
6. *Book;* Fixed Points of Set Valued Maps (ISBN 978-3-8433-6652-6), Lambert Academic Publisher, Germany **2010** (co author A.R. Butt).
7. *Book;* Fuzzy Relations (ISBN 978-3-8383-2069-4), Lambert Academic Publisher, Germany **2009** (co author S. Ashraf).
8. *Book chapter*; Inequalities and fixed points in Menger convex metric spaces, Book Chapter in *Fixed Point Theory and Applications* Vol. 7 (ISBN 13 978-1-59454-877-2) (chapter II, pp. 5-15) (editors: Yeol Je Cho, Jong Kyu Kim and Shin Min Kang), Nova Science Publishers, Inc., New York, **2007** (co author M. Abbas).

RESEARCH PUBLICATIONS (in refereed professional journals):

1. I. Beg: Representation of (*no*)-continuous linear operators on the space L_μ *(T, X)*, Annal. Univ. Bucuresti, (Mat)., 32**(1983)**, 3-8.
2. I. Beg and A. Azam: A fixed point theorem for nonlinear mappings on convex metric spaces, Math. Stud., 51(1-4) (**1983**), 246-248.
3. I. Beg and G. Grigore: Representation of (no)-bounded linear operators on a measure space. Bull. Math. Soc. Sci. Math. Roumanie, 28 (76) (3) (**1984**), 227-234.
4. I. Beg: Representation of bounded operators by Hellinger integral, Honam Math. J., 7(1) (**1985**), 1-6.
5. I. Beg: Integral representation of bounded operators on the space $L_\mu^2(T, X)$, Indian J. Math., 28(1) (**1986**), 9-17.
6. I. Beg and A. Azam: Fixed point theorems for Kannan mappings, Indian J. Pure Appl. Math., 17(11) (**1986**), 1270-1275.
7. I. Beg and G. Grigore: A theorem of isomorphism type, Boll. Unione Mathematica Italiana,(6) 5-A (3) (**1986**), 331-334.
8. I. Beg and A. Azam: On Kannan mappings, J. Natur. Sci. Math., 27(2) (**1987**), 17-21.
9. I. Beg and A. Azam: Fixed points on star-shaped subsets of convex metric spaces, Indian J. Pure Appl. Math., 18(7) (**1987**), 594-596.
10. D. Vuza, I. Beg and I. M. Popovici: Normal subspaces of directed vector spaces, Punjab Univ. J. Math., 21(**1988**), 65-69.
11. I. Beg and A. Azam: Existence of fixed points of nonlinear mappings, J. Natur. Sci. Math., 29(2) (**1989**), 149-158.
12. I. Beg and I. M. Popovici: Ultraproduct and finite representability of Banach lattices, Math. Japonica, 34(2) (**1989**), 163-167.
13. I. Beg and A. Azam: Fixed point theorems in normed spaces, Annal. Soc. Sci. Bruxelles, 104(I) (**1990**), 25-30.
14. I. Beg and A. Azam: Fixed points of multivalued locally contractive mappings. Boll Unione Matematica Italiana, (7) 4-A (**1990**), 227-233.
15. C. G. Hu and I. Beg: Cauchy-Stieltjes integral in locally convex spaces, Complex Variables: Theory and Application, 15(3) (**1990**), 233-239.
16. I. Beg and T.Y. Minhas: A convexity in 2-metric spaces and nonexpansive mappings, Math Japonica, 36(1) (**1991**), 105-112.
17. I. Beg, A. Azam, F. Ali and T. Minhas: Some fixed point theorems in convex metric spaces, Rendiconti, Circolo Mathematico Di Palermo, XL (2) (**1991**), 307-315.

18. I. Beg and A. Azam: Fixed points of asymptotically regular multivalued mappings, J. Austral. Math. Soc., (Series-A) 53(3) (**1992**), 313-326.
19. I. Beg, S. Rehman and N. Shahzad: Fixed Points of generalized contraction mappings on probabilistics metric spaces, Pak. J. Stat., 8(2) (**1992**), 35 – 52.
20. I. Beg, F. Ali and T.Y. Minhas: Fixed points theorems for 2-metric spaces, "Research Seminar" of Babes-Bolyai University "Seminar on Fixed Point Theory" (ed. I.A. Rus) 3(**1992**), 7-17.
21. I. Beg, N. Shahzad and M. Iqbal: Fixed point theorems and best approximation in convex metric spaces, Approx. Theory and its Appl., 8(4) (**1992**), 97-105.
22. I. Beg and N. Shahzad: Random fixed point theorems on product spaces, J. App. Math. Stochastic Anal., 6(2) (**1993**), 95-106.
23. I. Beg and A. Azam: Coincidence points of multivalued mappings, Punjab Univ. J. Math., (XXVI) (**1993**), 49-53.
24. I. Beg and M. Iqbal: Extension of linear 2-operators, J. Mathematica Montisnigri, 2(**1993**), 1-10.
25. I. Beg and F. Ali: Fixed points in vector lattices for generalized contractions, Punjab Univ. J. Math., XXVI (**1993**), 63-74.
26. I. Beg and N. Shahzad: Random fixed points of random multivalued operators on Polish spaces, Nonlinear Analysis: Theory, Methods & Applications, 20(7) (**1993**), 835 - 847.
27. I. Beg and A. Azam: Mean value inequalities and some fundamental results of calculus, Austral. Math. Soc., Gazette, 20(3) (**1993**), 73-79.
28. I. Beg and N. Shahzad: Random fixed points and approximations in random convex metric spaces, J. App. Math. Stochastic Anal., 6(3) (**1993**), 237-246.
29. I. Beg and N. Shahzad: An application of a fixed point theorem to best simultaneous approximation, Approx. Theory and its Appl., 10(3) (**1994**), 1-4.
30. I. Beg and M. Islam: Fuzzy Riesz spaces, J. Fuzzy Math., 2(1) (**1994**), 211-229.
31. I. Beg and N. Shahzad: Random approximations and random fixed point theorems, J. App. Math. Stochastic Anal., 7(2) (**1994**), 145-150.
32. I. Beg and N. Shahzad: Random fixed point theorems for nonexpansive and contractive type random operators on Banach spaces, J. App. Math. Stochastic Anal., 7(4) (**1994**), 569-580.
33. I. Beg and A. Azam: On iteration methods for multivalued mappings, Demonstratio Mathematica, 27(2) (**1994**), 493 - 499.

34. O. Sandru, I. Beg and I. M. Popovici: Banach lattices λ-lattice isometric with abstract Lp-spaces, Boll.Unione Matematica Italiana, (7) 8-A(2) (**1994**),153-155.
35. A. Latif, T. Husain and I. Beg: Fixed point of nonexpansive type and K-multivalued maps, Internat J. Math. & Math. Sci., 17(3) (**1994**), 429-436.
36. I. Beg and N. Shahzad: Random fixed points for random multivalued operators defined on unbounded sets in Banach spaces, Stochastic Anal. Appl., 13(3) (**1995**), 269-277.
37. I. Beg and N. Shahzad: Random fixed point theorems for multivalued inward random operators on Banach spaces, Adv. Math. Sci. Appl., 5(1) (**1995**), 31-37.
38. I. Beg and A. Azam: Fixed points of multivalued mappings in convex metric spaces, PanAmerica Math. J., 5(3) (**1995**), 63-70.
39. I. Beg and N. Shahzad: Random extension theorems, J. Math. Anal. Appl., 196(1), (**1995**), 43-52.
40. I. Beg and N. Shahzad: Common random fixed points of random multivalued operators on metric spaces, Boll. Unione Mathematica Italiana, (7) 9-A (**1995**), 493-503.
41. I. Beg and M. Islam: Fuzzy ordered linear spaces, J. Fuzzy Math., 3(3) (**1995**), 659-670.
42. I. Beg and N. Shahzad: Random fixed point of weakly inward operators in conical shells, J. App. Math. Stochastic Anal., 8(3) (**1995**), 261-264.
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