

# CURRICULUM VITÆ



## PERSONAL

**Name:** Muhammad Sarwar  
**Designation** Professor (Associate)  
**Date of Birth:** 2 April 1982  
**Place of Birth:** Swat, Pakistan  
**Nationality:** Pakistani  
**Address:** Department of Mathematics, University of Malakand, Chakdara Dir(L), Khyber Pakhtunkhwa, Paksitan.  
**Tel.:** +92-334-9360858, +92-344-4043268, +92-945-761625.  
**E-Mail Address 1:** [sarwarwati@gmail.com](mailto:sarwarwati@gmail.com)  
**E-Mail Address 2:** [sarwar@uom.edu.pk](mailto:sarwar@uom.edu.pk)

## EDUCATION

- PhD (Mathematics ) -Government College University Lahore ( 2006-2011)
- M.Sc ( Mathematics)-University of Peshawar (2003-2004), 1<sup>st</sup> division
- BED (Education )-University of Peshawar (2005) , 1<sup>st</sup> division
- B.Sc (Mathematics) -University of Peshawar (2001-2002), 1<sup>st</sup> division
- F.Sc (Pre-Engineering) -BISE(Swat) (1999-2000), 1<sup>st</sup> division
- S.Sc (Science ) -BISE (Swat) (1997-1998), 1<sup>st</sup> division

## **DISTINCTION**

- Recommended for Presidential Award I.E. Izazi Sabqat(For Pakistani National for the Independence Day 14 August 2005)
- Received young speaker award in International Conference on Mathematical Inequalities and Applications 2010.
- Received 1<sup>st</sup> position award from Govt. Post Graduate Jahanzeb College Swat in B.Sc.

## **TEACHING EXPERIENCE**

- Associate Professor in Mathematics in Department of Mathematics University of Malakand (Since 10 January 2020 to Present.
- Assistant Professor in Mathematics in Department of Mathematics University of Malakand (Since 11 May 2012 -9 January 2020)
- Assistant Professor in Mathematics in Department of Mathematics Islamia College University Peshawar (16 December 2011 - 11 May 2012)
- Lecture in Govt. Degree College Mingora Swat(20 September 2005 - 31 May 2006)
- Lecturer in Swat City College of Information Technology(18 October 2004 - 6 September 2005)

## **SUBJECTS TAUGHT TO MASTER AND BS LEVEL**

- |                          |                          |
|--------------------------|--------------------------|
| • Advanced Calculus      | • Functional Analysis-II |
| • Algebra                | • Number Theory          |
| • Abstract Algebra       | • Basic Topology         |
| • Linear Algebra         | • General Topology       |
| • Real Analysis-I        | • Calculus               |
| • Real Analysis-II       | • Measure & Integration  |
| • Functional Analysis -I |                          |

## **SUBJECTS TAUGHT TO MPHIL AND PHD LEVEL**

- Advanced Real Analysis
- Metric Fixed Point Theory
- Advanced Measure Theory

## ADMINISTRATIVE EXPERIENCE

- MPhil/Ph.D Coordinator, Department of Mathematics since May 2012-2015
- Member of Departmental admission committee ( For MPhil/Ph.D , MSC and BS Programs , Department of Mathematics, University of Malakand.
- Member of the Students conduct and Discipline committee. University of Malakand, November, 2013 - November 2015.
- Member of the GSC committee, Department of Mathematics, University of Malakand, since December 2014-2016.
- Member of Board of Studies in BS, MSC& M.Phil Mathematics, University of Science & Technology, Banu, Since August , 29 , 2016.
- Member of the EDC committee, University of Malakand, since December 2016-2019.
- Member of the Proctorial Board , University of Malakand, Since 15-05-2017 to date
- Member of the scholarship Committee , University of Malakand Since , December, 2018

## REVIEWER EXPERIENCE

### ➤ JOURNALS REVIEWER

- Journal of Inequalities and Applications (Springer)
- Fixed Point Theory and Applications(Springer)
- Eurasian Mathematical Journal
- International Journal of Nonlinear Analysis and Applications
- Applied Mathematics E-Notes
- Hacettepe Journal of Mathematics and Statistics
- Asian Journal of Mathematics and Computer Research
- Ghazi University Research Journal
- Journal of Non-linear Sciences and Application
- Boletim da Sociedade Paranaense de Matemática.
- Iee Access

### ➤ THESIS REVIEWER

- University of Peshawar
- Islamia College University Peshawar
- Qurtaba University of Science and Technalogy, Peshawar

- Hazara University Mansehra

## RESAERCH FIELDS

- Fixed Point Theory and Applications
- Non-Linear Analysis and Applications

## PROJECTS

Applications of Fixed Point Results in the Setting of Metric and b-Metric Spaces

## SUPERVISOR EXPEREINCE

### ➤ MPHIL SUPERVISION

- |                      |                       |                 |
|----------------------|-----------------------|-----------------|
| 1. Arshad Iqbal      | (Secession: 2011-2013 | Completed)      |
| 2. Abid Khan         | (Secession: 2012-2014 | Completed)      |
| 3. Mazhar Ali Khan   | (Secession: 2012-2014 | Completed)      |
| 4. Mujeeb Ur Rahaman | (Secession: 2013-2015 | Completed )     |
| 5. Mian Bahadur Zada | (Secession: 2013-2015 | Completed)      |
| 6. Badshah-e-Rome    | (Secession: 2013-2015 | Completed)      |
| 7. Muhammad Shoaib   | (Secession: 2013-2015 | Completed)      |
| 8. Saddam Hussain    | (Secession: 2014-2016 | Completed)      |
| 9. Noor Jamal        | (Secession: 2014-2016 | Completed)      |
| 10. Abdullah         | (Secession: 2014-2016 | Completed)      |
| 11. Humaira          | (Secession: 2015-2017 | Completed)      |
| 12. Abdus Salam      | (Secession: 2015-2017 | Completed )     |
| 13. Sadiqullah       | (Secession: 2016-2018 | Thesis writing) |
| 14. Ziaull Islam     | (Secession: 2017-2019 | In Progress)    |
| 15. Misbah Ull Haq   | (Secession: 2017-2019 | In Progress)    |
| 16. Farhan Khan      | (Secession: 2018-2020 | In Progress)    |
| 17. Rozi Gul         | (Secession: 2018-2020 | In Progress)    |
| 18. Waseem Ahmad     | (Secession: 2018-2020 | In Progress)    |
| 19. Anwar Ali        | (Secession: 2018-2020 | In Progress)    |

### ➤ PHD SUPERVISION

- |                      |                       |              |
|----------------------|-----------------------|--------------|
| 1. Mian Bahadur Zada | (Secession: 2016-2019 | In Progress) |
| 2. Muhammad Shoaib   | (Secession: 2016-2019 | In Progress) |
| 3. Badshah-e-Rome    | (Secession: 2017-2020 | In Progress) |
| 4. Humaira           | (Secession: 2018-2021 | In Progress) |
| 5. Noor Jamal        | (Secession: 2019-2022 | In Progress) |

## PUBLICATIONS

### 2020

1. Muhammad Shoaib, **Muhammad Sarwar\*** and Poom Kumam, Multi Valued Fixed Point Theorem via F-Contraction of Nadler Type and Applications to Functional and Integral Equations, *Bol. Soc. Paran. Mat.* (Appear in 2020), (**Indexed in web of science, Scopus indexed**).

### 2019

2. Mian Bahadur Zada , **Muhammad Sarwar\*** and H.K. Nashine, Solution of infinite system of ordinary differential equations and fractional hybrid differential equations via measure Of noncompactness, *Journal for Taibah University for Science* 2019, Vol 13. No. 1, 1119-1127(<https://www.tandfonline.com/doi/full/10.1080/16583655.2019.1686862> (**IF: 1.640**)).
3. Muhammad Sarwar\*, Humaira and Tongxing Li, Fuzzy Fixed Point Results and Applications to Ordinary Fuzzy Differential Equations in Complex Valued Metric Spaces, *Hacettepe Journal of Mathematics and Statistics* , 48(6), 2019, 1712-1728, (**IF: 0.558**).
4. Badshah-e-Rome , **Muhammad Sarwar** and Poom Kumam, Fixed point theorems via  $\alpha$ - $\varrho$ -Fuzzy Contraction, *Axioms* 2019, 8(2), 69; <https://doi.org/10.3390/axioms8020069> (**Indexed in web of science, Scopus indexed**).
5. Muhammad Shoaib, **Muhammad Sarwar**, Hassen Aydi, Aiman Mukheimer, Common N-tupled fixed Point via (CLR) property and an applications to a system of N-integral equations, *International Journal of Mathematics and Computer Science*, 14(2019), no. 4, 915-928
6. Muhammad Shoaib, Thabet Abdeljawad, **Muhammad Sarwar** and Fahd Jarad, Fixed Point Theorems for Multi-Valued Contractions in b-Metric Spaces with Applications to Fractional Differential and Integral Equations, *IEEE ACCESS* , Volume: 7, Issue:1, Pages 127373-127383, [10.1109/ACCESS.2019.2938635](https://doi.org/10.1109/ACCESS.2019.2938635). (**IF: 4.098**).
7. Saddam Hussain, **Muhammad Sarwar** and Cemil Tunc, Periodic Fixed Point Theorems via Rational Type Contraction in b-Metric Spaces, *Journal of Mathematical Analysis*, Volume 10 Issue 3 (2019), Pages 61-67. (**Indexed in web of science**)
8. Mian Bahadur Zada and **Muhammad Sarwar\***, Common Fixed Point Theorems for Rational  $F_R$  – Contractive Pairs of Mappings with Applications, *Journal of Inequalities and Applications*,( 2019), 2019:11, [ps://doi.org/10.1186/s13660-018-1952-z](https://doi.org/10.1186/s13660-018-1952-z) (**IF: 0.966**).
9. Mian Bahadur Zada and **Muhammad Sarwar\*** Fahd Jarad; Thabet Abdeljawad, Common Fixed Point Theorem via Cyclic  $(\alpha, \beta)$ - $(\psi, \varphi)$ S-Contraction with Applications, *Symmetry*, 2019, Volume 11, Issue 2, 198, <https://doi.org/10.3390/sym11010061> (**IF: 1.256**).
10. Muhammad Shoaib , **Muhammad Sarwar** and Thabet Abdeljawad, Hybrid Coupled Fixed Point Theorems in Metric Spaces with Applications, *Journal of Function Spaces*, Volume 2019, Article ID 6870308, 15 pages, <https://doi.org/10.1155/2019/6870308>, (**IF: 0.639**).
11. Humaira , **Muhammad Sarwar\*** and Poom Kumam, Common Fixed Point Results for Fuzzy Mappings on Complex-Valued Metric Spaces with Homotopy Results ,

*Symmetry* **2019**, Volume 11, Issue 1, 61; <https://doi.org/10.3390/sym11010061> (IF: 1.256).

12. P. Sumai Kumari , Jamnian Nantadilok and **Muhammad Sarwar**, Some Generalizations of Weak Cyclic Compatible Contractions, *Thai Journal of Mathematics* **17**(2019), 75-89 ( [Indexed in web of science](#), [Scopus indexed](#)).

## 2018

13. Humaira, **Muhammad Sarwar** and Cemil Tunc, Fuzzy Fixed Point Results Via Rational Type Contractions Involving Control Functions in Complex Valued Metric Spaces, *Appl. Math. Inf. Sci.* **12**, No. 4, 861-875 (2018) ([Scopus indexed](#)).
14. **Muhammad Sarwar\***, Humaira and Huaping Huang, Fuzzy Fixed Point Results with Rational Type Contraction in Partially Ordered Complex-Valued Metric Spaces, *Commentationes Mathematicae* , Vol **58**, no 1-2(2018) , 57-78.
15. Muhammad Shoiab, **Muhammad Sarwar** and Cemil Tunc, Hybrid Fixed Point Results Via E.A and Tangential Properties In Metric Spaces, *Honam Mathematical J.* **40** (2018), No. 4, pp. 719-732 ,( [Indexed in web of science](#)).
16. Mian Bahadur Zada, **Muhammad Sarwar\*** and Poom Kumam, Fixed Point Results for Rational Type Contraction in b-Metric Spaces, *International Journal of Analysis and Applications*. Volume 16, Number 6 (2018), 904-920, ([Indexed in web of science](#)).
17. Saddam Hussain, **Muhammad Sarwar** and Cemil Tunc, Fixed Point Theorems for Generalized Multi-Valued Contractions in b-Metric Spaces, *Journal of Mathematical Analysis* , Volume 9 Issue 2 (2018), Pages 158-166. ([Indexed in web of science](#)).
18. Bagathi Srinuvasa Rao, Gajula Naveen Venkata Kishore, **Muhammad Sarwar** and Nalamalapu Konda Reddy, Fixed Point Theorems in Ordered Sb-Metric Spaces by Using  $(\alpha, \beta)$ -Admissible Geraghty Contraction and Applications, *J. Applied Sciences* **18**(1), 9-18, 2018([Scopus indexed](#)).
19. Humaira , **Muhammad Sarwar\*** and G.N.V.Kishore, Fuzzy Fixed Point Results for Contractive Mapping with Applications, *Complexity* Volume 2018, Article ID 5303815, 12 pages (IF: 1.89).
20. P.S. Kumari, J. Nantadilok and **Muhammad Sarwar** , Fixed point theorems for a class of generalized weak cyclic compatible contractions , *Fixed Point Theory and Applications* (2018) 2018:13 ([Scopus indexed](#)).
21. B. Srinuvasa Rao, G.N.V.Kishore , Y. Hari Krishna and **Muhammad Sarwar**, Generalized  $(\alpha, \beta)$ -Rational contractions in ordered  $S_b$  – metric spaces with applications *IJMET*, Volume 9, Issue 3, March 2018, pp. 272–282 Article ID: IJMET\_09\_03\_028 ([Scopus indexed](#)).
22. Mujeeb Ur Rahman and **Muhammad Sarwar\*** Fixed Point Theorem for Integral Type Contraction Quasi  $B$  - Metric Space, *Bulletin of The International Mathematical Virtual Institute*, Vol. 8(2018), 279-285.
23. Muhammad Shoaib **Muhammad Sarwar\*** and Yongjin Li, Multi-valued tripled fixed point results via CLR property in metric spaces with application, *J. Math. Computer Sci.*, **18** (2018), 163–174. ([Indexed in web of science](#)).

24. Mian Bahadur Zada, **Muhammad Sarwar** and Cemil Tunc, Fixed point theorems in  $b$ -metric spaces and their applications to non-linear fractional differential and integral equations, *J. Fixed Point Theory Appl.*, **20**( 2018), Issue 1, Article 25 (IF: 0.68).
25. Saddam Hussain, **Muhammad Sarwar\*** Yongjin Li,  $n$ -tupled fixed point results with rational type contraction in  $b$ -metric spaces, *European Journal of Pure and Applied Mathematics*, Vol. **11**, No. 1, 2018, 331-351, (Indexed in web of science).

## 2017

26. Muhammad Shoaib, **Muhammad Sarwar** and Cemil Tunc, Coupled fixed point theorem for multi-valued mapping via generalized contraction in partially ordered metric spaces with applications, *Journal of Mathematical Analysis* Volume 8 Issue 5 (2017), Pages 27-39. (Indexed in web of science).
27. Badshah-E-Rome and **Muhammad Sarwar\***, Extension of the Banach contraction principle in multiplicative metric spaces, *MILITARY TECHNICAL COURIER*, 2017., Vol. 65, Issue 2.
28. Mujeeb Ur Rahaman, **Muhammad Sarwar** and Muhib Ur Rahman, Some Common Fixed Point Theorems on  $S$ -metric Spaces, *J. Fixed Point Theory*, 2017, 2017:2.
29. Mian Bahadur Zada, **Muhammad Sarwar\*** and Panda Sumati Kumari, Common Fixed Point Results in Complex Valued Metric Spaces with  $(E.A)$  and  $(CLR)$  Properties, *Advances in Analysis*, Vol. 2, No. 4, October 2017
30. Muhammad Shoaib, **Muhammad Sarwar\*** Sultan Hussain and Gohar Ali, Existence and Uniqueness of Common Fixed Point for Mappings Satisfying Integral Type Contractive Conditions in  $G$ -Metric Spaces, *Matriks Sains Matematik(MSMK)* 1(1) (2017) 01-08
31. Abdullah, **Muhammad Sarwar\***, Zead Mustafa, and M.M.M. Jaradat, Common fixed points of  $(\psi, \phi)$ -contraction on  $G$ -metric space using  $E.A$  property, *Journal of Mathematical Analysis*, Volume 8 Issue 4 (2017), Pages 136-146.(Indexed in web of science).
32. **Muhammad Sarwar**, Noor Jamal, and Yongjin Li, Coincidence point results via generalized  $(\psi, \phi)$ -weak contractions in partial ordered  $b$ -metric spaces with application, *J. Nonlinear Sci. Appl.*, **10** (2017), 3719–3731. (IF: 1.17)
33. Mujeeb Ur Rahman and **Muhammad Sarwar**, Coupled fixed point theorem for generalized contraction in dislocated quasi  $b$ -metric spaces, *J. Adv. Math. Stud.* Vol. **10**(2017), No. 3, 289-294.
34. Mian Bahadur Zada and **Muhammad Sarwar\***, fixed point results satisfying rational type contractive conditions in complex valued metric spaces – revisited, *Annales Mathematicae Silesianae* (2017), DOI: 10.1515/amsil-2016-0019.
35. Branislav Popović, Muhammad Shoaib and **Muhammad Sarwar**, Coupled fixed point theorems for generalized  $(\psi, \phi)$ -weak contraction in partially ordered  $G$ -metric spaces, *J. Computational Analysis and Applications*, Vol. 23, No.5, 2017, Copyright 2017 Eudoxus Press, LLC. (IF: 0.799)
36. Noor Jamal, **Muhammad Sarwar\*** and Mohammad Imdad, Fixed point results for generalized  $(\psi, \phi)$ -weak contractions and its applications to system of non-linear integral equations, *Transactions of A. Razmadze Mathematical Institute.* **171**(2017), 182-194(Scopus indexed).

37. Zoran Kadelburg, Stojan Radenovic and **Muhammad Sarwar**, Remarks on the paper” Coupeld fixed point theorems for single valued operators in b-metric spaces. *Mathematics Interdisciplinary Research* 2(2017), 1-8
38. P Sumati kumara, A.H. Ansari and **Muhammad Sarwar**, On b-dislocated Quasi-Metric Spaces, *International Journal of Advanced in Mathematics*, Volume 2017, Number 1, Pages 30-40, 2017.
39. Mian Bahadur Zada, **Muhammad Sarwar\*** and Stojan Radenovic, Existence of Unique Common Solution to the System of Non-Linear Integral Equations Via Fixed Point Results in Incomplete Metric Spaces, *Journal of Inequalities and Applications* (2017) 2017:22, DOI 10.1186/s13660-016-1286-7, (IF: 0.630).
40. **Muhammad Sarwar**, Mian Bahadur Zada, and Saurabh Manro, Common Fixed Point Theorems for Weakly Compatible Mappings in Complex Valued Metric Spaces, Bulletin of the International Mathematical Virtual Institute, Vol. 7(2017), 11-21.
41. Badshah-E-Rome and **Muhammad Sarwar**, Some Fixed Point Theorems for Mappings Satisfying A General Multiplicative Contractive Condition of Integral Type, *Electronic Journal of Mathematical Analysis and Applications* Vol. 5(1) Jan. 2017, pp. 50-63.

## 2016

42. Muhammad Shoaib and **Muhammad Sarwar\***, Multivalued Fixed Point Theorems for Generalized Contractions and Their Applications, *Journal of Mathematics*, Volume 2016, Article ID 5190718, 8 pages. (Indexed in web of science)
43. Wutiphol Sintunavarat, Mian Bahadur Zada and **Muhamma Sarwar**, Common solution of Urysohn integral equations with the help of common fixed point results in complex valued metric spaces, *RACSAM* , DOI 10.1007/s13398-016-0309-z. (IF: 0.46)
44. Mujeeb Ur Rahman **Muhammad Sarwar\***, Coupled Fixed Point Theorem in Dislocated Quasi-Metric Spaces, *Communication in Nonlinear Analysis*. 2 (2016), 113-118
45. M. Abbas, H. Huang, **Muhammad Sarwar**, M. Shoaib, Fixed Point Results in  $Gq$ -Metric Spaces with  $W$ -distance, Scientific Publications of The State University of Novi Pazar, Ser. A: Appl. Math. Inform. and Mech. vol. 8, 1 (2016), 65-77.
46. Mian Bahadur Zada, **Muhammad Sarwar\*** and Nayyar Mehmood, Common Fixed Point Results for Six Mappings via Integral Contractions with Applications, *International Journal of Analysis*, Volume 2016, Article ID 7480469, 13 pages. (Indexed in web of science)
47. Badshah-e-Rome and **Muhammad Sarwar\***, Characterization Of Multiplicative Metric Completeness, *International Journal of Analysis and Applications*, Volume 10, Number 2 (2016), 90-94. (Indexed in web of science)
48. Abid Khan and Muhammad Sarwar, Uni-Soft Bi-Ideals and Uni-Soft Interior Ideals of Ag-groupoids , *Math. Sci. Lett.* **5**, No. 3, 271-277 (2016)
49. **Muhammad Sarwar\***, Abdullah and Sayyed Inayat Ali Shah, Triple Fixed Point Theorem Satisfying Rational Type Contraction in  $Gb$ -Metric Spaces, *J. Adv. Math. Stud.* **9**(2016), No. 2, 321-330.
50. Muhammad Shoaib and **Muhammad Sarwar\***, Fixed Point Theorem Satisfying weak Integral Type Contraction in Generalized Metric Spaces, *Math. Sci. Lett.* **5**, No. 3, 213-219 (2016).



51. Poom Kumum, **Muhammad Sarwar\***, Mian Bahadur Zada, Fixed Point Results Satisfying Rational Type Contractive Conditions in Complex Valued Metric Spaces, *Annales Mathematicae Silesianae*, 30 (2016), 89–110.
52. **Muhammad Sarwar\***, Saddam Hussain and Panada Sumati Kumari. Common coupled fixed point theorems satisfying rational type contractive conditions in b-metric spaces, *Springer Plus* (2016) 5:257, DOI 10.1186/s40064-016-1849-6. (IF: 0.982)
53. Mian Bahadur Zada, **Muhammad Sarwar**, Nasir Rahman and Muhammad Imdad , Common fixed point results involving contractive condition of integral type in complex valued metric spaces, *J. Nonlinear Sci. Appl.* 9 (2016), 2900- 2913. (IF: 1.17).
54. P. Sumati Kumari and **Muhammad Sarwar**, Some fixed point theorems in generating space of  $b$ -quasi-metric family , *Springer Plus.* (2016) 5:268, DOI 10.1186/s40064-016-1867-4, (IF: 0.982)
55. Branislav Z. Popovic , Muhammad Shoaib, and **Muhammad Sarwar**, Fixed Point Results Satisfying Rational Type Contraction in  $G$ -Metric Spaces, *Journal of Function Spaces*, Volume 2016, Article ID 9536765, 7 pages. (IF: 0.426)
56. Muhammad Shoaib, **Muhammad Sarwar**, Kmal Shah and Poom Kumum, Fixed point results and its applications to the systems of non-linear integral and differential equations of arbitrary order , *Journal of Nonlinear Science and. Applications*, 9 (2016), 4949-4962. (IF: 1.17)
57. **Muhammad Sarwar**, Mian Bahadur Zada and Nayyar Mehmood, Common fixed point results for weakly compatible mappings under contractive conditions of integral type in complex valued metric spaces, *Transactions of A. Razmadze Mathematical Institute* 170 (2016) 91–106. (Scopus indexed).
58. Mujeeb Ur Rahman, **Muhammad Sarwar** and Muhib Ur Rahaman, Fixed Point Results of Altman Integral Type Mappings in S-Metric Spaces, *International Journal of Analysis and Applications*, Volume 10, Number 1 (2016), 58-63. (Indexed in web of science)
59. Mujeeb Ur Rahman and **Muhammad Sarwar**, Dislocated Quasi B-Metric Space and Fixed Point Theorems, *Electronic Journal of Mathematical Analysis and Applications* Vol. 4(2) July. 2016, No. 2, pp. 16-24.
60. Mujeeb Ur Rahman and **Muhammad Sarwar** Some New Fixed Point Theorems in Dislocated Quasi-Metric Spaces, *Palestine Journal of Mathematics*, Vol.5(1)(2016) 1–6.
61. Mujeeb Ur Rahman, **Muhammad Sarwar** and Muhib Ur Rahman, Fixed Point Theorems of Gregus Type in  $d$ -Metric Spaces, *Sohag J. Math.* 3, No. 1, 1-5 (2016)
62. Mujeeb Ur Rahman and **Muhammad Sarwar**, Coupled Fixed Point Theorem For Rational Contraction Conditions In Dislocated Quasi-Metric Space, *Palestine Journal of Mathematics* Vol. 5(2)(2016) 6–11.

## 2015

63. M.U. RAHMAN, **Muhammad SARWAR**, P. S. KUMARI, Common Tripled Fixed Point Theorem in Dislocated Quasi-Metric Space, *Sindh Univ. Res. Jour. (Sci. Ser.)* Vol. 47 (4) (2015) .(Indexed in web of science)
64. **Muhammad Sarwar**, Mian Bahadur Zada and Inci M. Erhan Common fixed point theorems of integral type contraction on metric spaces and its applications to system of functional equations, . *Fixed Point Theory and Applications* (2015) 2015:217, DOI 10.1186/s13663-015-0466-3. (IF: 2.5)

65. Mujeeb Ur Rahman and **Muhammad Sarwar** Some Fixed Point Theorems Satisfying Contractive Conditions of Integral Type in Dislocated Quasi-MetricSpace, *Journal of Analysis & Number Theory*, **3**, No. 2, 1-6 (2015).
66. **Muhammad Sarwar\*** and Mujeeb Ur Rahman, Fixed point Theorems for Ciric and Generalized Contraction in b-metric spaces, *International Journal of Analysis and Applications*, **7**(1), 70-78, 2015.(Indexed in web of science)
67. Mujeeb Ur Rahman and **Muhammad Sarwar**, Some Fixed Point Theorems in Generalized Types of Metric Spaces, *Electronic Journal of Mathematical Analysis and Applications* **3**(2) July 2015, pp. 289-296.
68. Mujeeb Ur Rahman and **Muhammad Sarwar**, Common Coupled Fixed Point and Coupled Coincidence Point Results in Dislocated Quasi-Metric Spaces, *Asian Journal of Mathematics and Computer Research*, **4**(4), 2015. 208-214.
69. Mujeeb Ur Rahman and **Muhammad Sarwar**, Some Remarks on Theorems in d-Metric and dq -Metric Spaces, *International Journal of Mathematics and Scientific Computing* **VOL. 5, NO. 1, 2015. 11-13.**
70. Abid Khan and **Muhammad Sarwar** Uni-Soft Ideals of Ternary Semigroups *International Journal of Mathematics and Scientific Computing* **VOL. 5, NO. 1, 2015. 60-65.**
71. **Muhammad Sarwar** and Mian Bahadur Zada, Common Fixed Point Theorems for Six Self-Maps Satisfying Common(E.A) and Common(CLR) Properties In Complex Valued Metric Space, *Electronic Journal of Mathematical Analysis and Applications*, **3**(1) 228-344, 2105.
72. Mujeeb Ur Rahman and **Muhammad Sarwar** Fixed Point Theorems for Expanding Mappings in Dislocated Metric Space, *Mathematical Sciences Letters*, **4**(1) 1-5, 2015.

## 2014

73. Alexander Meskhi, Ghulam Murtaza and **Muhammad Sarwar**, A characterization of the two-weight inequality for Riesz potentials on cones of radially decreasing functions, *Journal of Inequalities and Applications*, **2014**: 383, 2014.(IF: 0.630)
74. Mujeeb Ur Rahman and **Muhammad Sarwar**, A Fixed Point Theorem for Three Pairs of Mappings Satisfying Contractive Condition of Integral Type in Dislocated Metric Space, *Journal of Operators*, Article ID 750427, 5 pages, 2014.
75. Mujeeb Ur Rahman and **Muhammad Sarwar**, Generalized Fixed Point Results in Dislocate and Dislocated Quasi-Metric Spaces0, *International Journal of Mathematics and Scientific Computing*, **4**(2) 107-110, 2014.
76. Mujeeb Ur Rahman and **Muhammad Sarwar**, Fixed Point Results for Some New Type of Contraction Conditions in Dislocated Quasi-Metric Space, *International Journal of Mathematics and Scientific Computing*, **4**(2) 68-71, 2014.
77. **Muhammad Sarwar** and Mujeeb Ur Rahman, Six Maps Version for Hardy-Rogers Type Mapping in Dislocated Metric Spaces, *Proc. A. Razmadze Math. Inst.* **166**, 121-132, 2014.
78. **Muhammad Sarwar**, Ghulam Murtaza and Irshad Ahmad, Riemann-Liouville and Higher Dimensional Hardy Operators for Non-Negative Decreasing Function in  $L^{p(\cdot)}$  Spaces, *Abstract and Applied Analysis*, Article ID 621857, 5 pages, 2014. (Scopus indexed).

79. **Muhammad Sarwar**, Mujeeb Ur Rahman and Gohar Ali, Some fixed point results in dislocated quasi metric (dq-metric) spaces, *Journal of Inequalities and Applications*, **2014**:278, 2104. (IF: 0.630)
80. Mujeeb Ur Rahman and **Muhammad Sarwar**, Fixed Point Results in Dislocated Quasi Metric Spaces, *Int. Math. Forum*, **9(2014)**, 677-682.
81. **Muhammad Sarwar** and Abid Khan, On Uni-soft (Quasi) Ideals of AG-groupoids, *Applied Mathematical Sciences*, **8(12)** 589 – 600. 2014. (Scopus indexed).

### 2013

82. Vakhtang Kokilashvili, Alexander Meskhi and **Muhammad Sarwar**, Two-Weight Norm Estimates for Maximal And Caldero'n-Zygmund Operator in Variable Exponent Lebesgue Spaces, *Georgian Mathematical Journal*, **20** (2013) No. 3, 415-624. (IF: 0.43).

### 2012

83. **Muhammad Sarwar\*** and Majid Ali, On Intuitionistic Fuzzy h-ideals in H-hemiregular Hemirings and  $h^*$ -Duo Hemiring, *Eurasian Mathematical Journal*, **3** (2012), No.4, 111–136. (Indexed in web of science).

### 2011

84. Alexander Meskhi, Ghulam Murtaza and **Muhammad Sarwar**, Weighted Criteria for One-sided Potentials wit Product Kernels on Cones of Decreasing Function, *Mathematical Inequalities and Applications*, **11(3)**693-708, 2011. (IF: 0.45)

### 2010

85. Vakhtang Kokilashvili, Alexander Meskhi and **Muhammad Sarwar**, One and Two Weight Estimates for One- sided Operators in  $L^{p(\cdot)}$  Spaces, *Eurasian Mathematical Journal*, **1(1)** 73-110, 2010. (Indexed in web of science).
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## PARTICIPATION IN CONFERENCES AND WORKSHOPS

- As an organizer , “ 02 Days National Conference on” Emerging Trends in Scientific Computing, *Kohat University of Science & Technology & University of Malakand Department of Mathematics*,, held on 28 &22 March ,2019.

- As a Invited Speaker , “ 02 Days International Conference on” Pure and Applied Mathematics, *Department of Mathematics, University of Sargodha*, held on 21 &22 December,2018
- As a participant, “ 02 Days International Conference on” Problems and Challenges to English Language Teaching Reforms in Religious Madrassas of Pakistan *Department of Education, University of Malakand* held on 15 &16 November 2017.
- As a participant, “ 05 Days Training on English for Academic Purposes” Under Transforming English Language Skills, *University of Malakand*, held on 03-07<sup>h</sup> April 2017.
- As a participant, “ 05 Days Workshop on Teaching & Research” *Department of Education, University of Malakand*, held on 23-27<sup>th</sup> May 2016.
- As a participant , 02 days workshop on Computational, Complexities, Innovations & solution, *Comsats Institute of Information Technology Abbottabad*, May 9-10, 2016.
- As a participant , 02 days Conference on Recent Advances in Mathematical Methods, Models and Applications, *Lahore School of Economics* April 9-10, 2016.
- As a participant in “ Indigenous On-Campus Training Workshop of Administrative Staff on “ Semester by-laws” held at *University of Malakand* March 19<sup>th</sup> -20<sup>th</sup> 2015.
- As a Organizer, 1<sup>st</sup> Natioanl Confernce on Mathematical Sciences, *Departemnt of Mathematics, University of Malakand*, From 2-4 September 2014.
- As a presenter, 5th World Conference on 21st Century Mathematics; held 09-13 February 2011; *Abdus Salam School of Mathematical Sciences, GC University, Lahore, Pakistan*.
- As a presenter, International Conference on Mathematical Inequalities and Applications; held 07-13 March 2010; *Abdus Salam School of Mathematical Sciences, GC University, Lahore, Pakistan*.
- As a presenter, 4th World Conference on 21st Century Mathematics; held 04-08 March 2009; *Abdus Salam School of Mathematical Sciences, GC University, Lahore, Pakistan*.
- As a participant, Summer Conference in Mathematics; held 27-28 July 2009; *Lahore University of Management Sciences, Lahore, Pakistan*.
- As a participant, LUMS 2nd International Conference on Mathematics and its Applications in Information Technology; held 09-12 March 2008; *Lahore University of Management Sciences, Lahore, Pakistan*
- As a participant, 3rd International Conference on 21st Century Mathematics; held 04-07 March 2007; *Abdus Salam School of Mathematical Sciences, GC University, Lahore, Pakistan*

#### **LINKAGES/RESEARCH COLLABORATIONS**

- Prof. Stojan Redenic, Faculty of Mechanical Engineering, University iof Belgrade, Kraljice Marije 16, 11 120 Beograd 35, Serbia.
- Prof. Mujahid Abbas, University of Management and Technalogy, Lahore, Pakistan.
- Prof. Poom Kumam, KMUTT Fixed Point Research Laboratory, Department of Mathematics, Room SCL 802 Fixed Point Laboratory, Science Laboratory Building,

Faculty of Science, King Mongkuts University of Technology Thonburi (KMUTT), 126 Pracha-Uthit Road, Bang Mod, Thrung Khru, Bangkok 10140, Thailand.

- Prof. Mohammad Imdad, Department of Mathematics, Aligarh Muslim University India.
- Prof, Wutiphol Sintanaravat , Department of Mathematics and Statistics, Faculty of Science and Technology,Thammasat University Rangsit Center, Pathumthani 12121, Thailand.
- Dr. Sumati P Kumari Assoc.Professor of Mathematics Department of Basic Sciences and Humanities, GMR Institute of Technology, Rajam, A.P, India.
- Dr. Huaping Huang ,School of Mathematical Sciences, Beijing Normal University, Laboratory of Mathematics and Complex Systems, Ministry of Education, Beijing , China.
- Prof. Fhad Jarad, Department of Mathematics, Cankaya University ,06790, Etimesgut, Ankara, Turkey
- Prof. Thabet Abdeljawad, Department of Mathematics and General Sciences, Prince Sultan University P. O. Box 66833, 11586 Riyadh, Saudi Arabia.

## REFERENCES

- **Dr. Alexander Meskhi**  
Senior Resaercher of Razmadze Mathematical Insitute, Georgia  
Full Professor of the Technical University of Georgia (Department of Mathematics).  
Email: [alex72meskhi@yahoo.com](mailto:alex72meskhi@yahoo.com)
- **Dr. Gul Zaman**  
Full Professor of the Department of Mathematics, University of Malakand,  
Vice Chancellor University of Malakand  
Email: [talash72@yahoo.com](mailto:talash72@yahoo.com)
- **Dr. Rahmat Ali Khan**  
Full Professor of the Department of Mathematics, University of Malakand,  
Vice Chancellor Shaheed Benazir Bhutto University Sheringal  
Email: [rahmat\\_alipk@uom.edu.pk](mailto:rahmat_alipk@uom.edu.pk)