



## KHURRAM SHABBIR

Professor of Mathematics

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## Academic & Research Experience

- Director General Office: Abdus Salam School of Mathematical Sciences, Government College University Lahore. May 26, 2025 – Present
- Tenured Professor of Mathematics, Government College University Lahore February 16, 2021 – Present
- Associate Professor of Mathematics , Government College University Lahore May 25, 2016 - Feb 15, 2021
- Assistant Professor of Mathematics, Government College University Lahore May 21, 2008 - May 24, 2016
- Postdoctoral Fellowship, Instituto de Matemáticas Universidad Nacional Autónoma de México, Cuernavaca, México. March 2011- February 2012
- Editor/Managing Editor, Journal of Prime Research in Mathematics (JPRM) published by Abdus Salam School of Mathematical Sciences GC University, Lahore. 2015 – Present
- Reviewer for WoS Journals: Journal of Physics A, IEEE Access, Journal of Mathematics, Journal of Applied Mathematics, Complexity, Molecular Physics, Journal of Applied and Computational Mathematics, Journal of Natural Sciences and Mathematics, Turkish Journal of Inequalities
- Evaluated fifteen Post Doctoral Fellowship Phase-3 Batch 4 assigned by HEC-Islamabad September, 2023
- Editor/Reviewer Conference Proceedings, 10th International Congress on Industrial and Applied Mathematics, Waseda University, Tokyo, Japan - ICIAM 2023 Tokyo August, 2023
- Guest Editor, Special Issue: *Metric Spaces with Its Application to Fractional Differential Equations*, Fractal and Fractional MDPI Journal June 2023
- Reviewer for NATIONAL RESEARCH PROGRAM FOR UNIVERSITIES (NRPU) Projects assigned by HEC-Islamabad April,2022
- Member of Scientific Advisory Committee, Academia International Conference - Mathematics and Mathematics Education, New Trends in Mathematics and Mathematics Education, Siirt University, Turkey December,2021

## Administrative Experience

- **Director General** (Office), Abdus Salam School of Mathematical Sciences, GC University Lahore. May 26, 2025 – Present
- **Tenured Professor** of Mathematics February 16, 2021 – Present
- **Incharge MPhil Program:** Government College University Lahore 2018 – Present
- **Controller of Examinations:** Department of Mathematics, Government College University Lahore, 2012 – Present

- **Editor/Managing Editor:** Journal of Prime Research in Mathematics (JPRM) published by Abdus Salam School of Mathematical Sciences GC University, Lahore. 2015 – Present
- **Principal Investigator:** National Research Program for Universities (NRPU-HEC) Project # 7359 2019 – 2021
- **Principal Investigator:** ORIC- GC University Lahore Funded Faculty research Project No. 421/ORIC/24. October 2024 – Present
- **Advisor:** Chawala Mathematical Society, GC University Lahore. 2008-2011
- **Member:** The Punjab Employees Efficiency, Discipline, and Accountability (PEEDA) act committee GC University Lahore. 2016
- **Member:** The Punjab Employees Efficiency, Discipline, and Accountability (PEEDA) act committee GC University Lahore. December 14th, 2016
- **Member:** The Investigative Committee Conducting an Investigation on Kangaroo Competition in Pakistan. 2017
- **Convener:** The Punjab Employees Efficiency, Discipline, and Accountability (PEEDA) act committee GC University Lahore. September 12, 2023
- **Resource Person Erasmus MOU:** Erasmus + programme MOU between Government College University Lahore and UNIVERSATEA DE VEST “VASILE GOLDIȘ”, Romania. November 24, 2023
  
- **Member:** The Academic Council of the University of Narowal January 29, 2024
- **Convener:** The Committee to Probe the Payment of M/S Luxury Electrical and Construction Pvt. Ltd. at ASSMS. June 3, 2024
- **Convener:** The Committee to Probe the Payment of M/S Luxury Electrical and Construction Pvt. Ltd. at ASSMS. June 3, 2024
- **Convener:** The Auction committee of ASSMS to weed out dead stock / Unserviceable items. June 04, 2024
- **Member:** The committee of Affiliated Collages GC University, Lahore June 07, 2024
- **Convener:** The committee of ASSMS to examine / inspect the items and declare them unserviceable / dead stock as well as to fix the reserve price. June 10, 2024
- **Member:** The advisory committee for the preparation of Model Class Rooms at GC University, Lahore. September 12, 2024
- **Convener:** The GCU Employee Loan Committee A (BS-16 & Above). September 13, 2024
- **Convener:** Technical Committee, Under the requirement of PPRA to look after the matters of University. September 30, 2024
- **Convener** of the selection Committee for the Appointments of GCU employee for BS-01 to BS-16 (or Equivalent). October 10, 2024
- **Convener:** The Committee to probe the matter regarding the counterfeit signatures of Resident Auditor in the documentation of ASSMS-GCU Lahore. October 17, 2024

- **Member:** The University student Grievance committee October 24, 2024
- **Convener:** National Curriculum Review Committee (NCRC), HEC-Islamabad. October 24-25, 2024
- **Member:** Grievance Redressal Committee (GRC) for Honhaar Scholarship Program by the Punjab Government. October 30, 2024
- **Member:** The University Grievance committee to complete the PPRA profile October 31, 2024
- **Coordinator:** Collaboration with Department of Mathematics, Government College University, Lahore and Indonesian Mathematical Society (IndoMS) Central Region for organizing an international conference on mathematics and mathematics education. December 05-06, 2024

# Projects

- Principal Investigator (PI): NRPU Project # 20-7359} under HEC, Islamabad  
Titled: Open String Amplitudes and Elliptic Genera (2019-2021) (completed). February 15, 2024
- Principal Investigator (PI): Award of ORIC- GC University Lahore Funded Faculty research Project No. 421/ORIC/24 }  
Title: Extragradient Methods for Solving the Fixed Point Problems. (In progress). October 2024 – October 2025

## Publications

- **Book Chapter Published:** K. Shabbir, K. Ahmad, L. Gurani, “Existence and Computational Approximation of Fixed Points of Generalized Multivalued Mappings in Banach Space”, “In: Younis, M., Chen, L., Singh, D. (eds) Recent Developments in Fixed-Point Theory. Industrial and Applied Mathematics. Springer, Singapore”, 2024, [https://doi.org/10.1007/978-981-99-9546-2\\_13](https://doi.org/10.1007/978-981-99-9546-2_13)
- **Book Published:** *Milnor Algebras and Brieskorn Modules of Homogeneous Polynomials: Study of Torsion classes in the Brieskorn Modules* 2009.

In 2025

1. A.A Zafar, M. Shahzaib, **K. Shabbir**, “Advanced Hemodynamic Modeling of Pulsatile Blood Flow with Magnetic Nano-particles: Fractional Analysis for Optimizing Biomedical Applications”, “Punjab University Journal of Mathematics”, 57(1-2), 2025, (Accepted), (ISSN:1016-2526), (IF: 1.0), aa X-Category
2. K. Ahmad, E. R. Dolores-Cuenca, and **K. Shabbir**. “Shuffle series”. “Journal of Algebraic Combinatorics”, 61(2), 2025, 1-40, (ISSN: 1572-9192/0925-9899), (IF: 0.6).  
<https://doi.org/10.1007/s10801-025-01386-7> W-Category
3. W. U. Hassan, **K. Shabbir**, A. Zeeshan, R. Ellahi, “Regression analysis for thermal transport of fractional-order magnetohydrodynamic Maxwell fluid flow under the influence of chemical reaction using integrated machine learning approach”, “Chaos, Solitons & Fractals”, 191, 2025, 115927, (ISSN: 1873-2887/0960-0779), (IF: 5.3), <https://doi.org/10.1016/j.chaos.2024.115927> W-Category

In 2024

4. W. Afzal, M. Abbas, **K. Shabbir**, "Some new integral bounds for Godunova-Levin functions via fractional integral operators", "Open Journal of Mathematical Sciences", 8, 2024, 148-166, (ISSN: 2523-0212/2616-4906), <https://www.doi.org/10.30538/oms2024.0233> Non-HEC

5. **K. Shabbir**, A. Raza, L. Guran, “Computation of Total Absolute Difference Edge Irregularity Strength of some Graph with n-pentagonal Pages and 3-regular Graph”, “Scientific Inquiry and Review”, 8(4), 2024, 80-92, (ISSN:2521-2435/2521-2427), <https://doi.org/10.32350/sir.84.04> Y-Category

6. W. U. Hassan, **K. Shabbir**, M. I. Khan, L. Guran, “Computational Evaluation of Heat and Mass Transfer in Cylindrical Flow of Unsteady Fractional Maxwell Fluid Using Backpropagation Neural Networks and LMS”, “Mathematics”, 12(23), 2024, 3654, (ISSN:2227-7390), (IF:2.3), <https://doi.org/10.3390/math12233654> W-Category

7. J. Iqbal, **K. Shabbir**, & L. Guran, “Stability and convergence computational analysis of a new semi analytical-numerical method for fractional order linear inhomogeneous integro-partial-differential equations”. “Physica Scripta”, 99(12), 2024, 125241, (ISSN:1402-4896), (IF. 2.6). <https://doi.org/10.1088/1402-4896/ad8d8f> W-Category

8. J. Iqbal, **K. Shabbir**, L. Guran, H Emadifer, “A Novel Approach with Comparative Computational Simulation of Analytical Solutions of Fractional Order Volterra Type Integral Equations”, “ International Journal of Differential Equations”, 2024, (ISSN:1687-9651, p.1687-9643), (IF:1.4) <https://doi.org/10.1155/2024/8629461> X-Category

9. A. A. Zafar, S. Hussain, **K. Shabbir**, “Analysing MHD Heat-Mass Transfer model for Oldroyd-B Fluid Using Fractional Order Prabhakar Derivative”, “Journal of Prime Research in Mathematics”, 20(2), 2024, 10-29, (ISSN: 1817-3462), (SCOPUS indexed Journal). Y-Category

10. A. A. Zafar, M. A. Sadiq, **K. Shabbir**, L. Guran, “A Computational Study of Vibrating System using the Constant Proportional Caputo Derivative Operator Approach”, “International Journal of Modern Physics C”, 2450231, 2024, doi: 10.1142/S0129183124502310, (ISSN:0129-1831)(IF: 1.89) <https://www.worldscientific.com/doi/abs/10.1142/S0129183124502310> W-Category

11. K. Ahmad, **K. Shabbir**, N. Nazar, “Convergence Analysis of Picard Thakur Hybrid Iterative Scheme for  $\alpha$ -Nonexpansive Mappings in Uniformly Convex Banach Spaces”, “International Journal of Applied Mathematical Research“, 13(1), 2024, 34 - 48, (ISSN: 2227-4324). Non-HEC

**In 2023**

12. M.J.A. Junjua, **K. Shabbir**, A. Naseem, “Combinatorial Bounds of the Regularity of Elimination Ideals”, “Ars Combinatoria”, 2023, 25-34, (IF. 0.265) (ISSN: 0381-7032). <https://dx.doi.org/10.61091/ars156-3> Y-Category

13. A. Naseem, **K. Shabbir**, M. Ramzan, “Further Results on Radio Number of Wedge sum of Graphs”, “Ars Combinatoria”, 2023, 13-23, (IF. 0.265) (ISSN: 0381-7032). <https://dx.doi.org/10.61091/ars156-02> Y-Category

14. M. Abbas, K. Ahmad, **K. Shabbir**, “Approximation of Fixed Point of Multivalued Mean Nonexpansive Mappings in CAT(0) Spaces”, “Journal of Prime Research in Mathematics”, 19(2), 2023, 1–16, (ISSN: 1817-3462), (SCOPUS indexed Journal). Y-Category

15. **K. Shabbir**, “Milnor Fibrations and Regularity Conditions for Real Analytic Mappings”, “Journal of Prime Research in Mathematics”, 19(1), 2023, 82–91, (ISSN: 1817-3462), (SCOPUS indexed Journal). Y-Category

16. J. Iqbal, **K. Shabbir**, A. Bucur, A. A. Zafar, “Analyzing the convergence of a semi-numerical-analytical scheme for non-linear fractional PDEs”, “Alexandria Engineering Journal”, 78, 2023, 26-34, 2023, (IF. 6.8) (ISSN: 1110-0168), <https://doi.org/10.1016/j.aej.2023.06.095> W-Category

17. M. K. Azam, S. E. Farooq, F. Ahmad, M. Iqbal, **K. Shabbir**, M. Aziz Rehman, “Applications of extended Hadamard K-fractional integral”, “Italian Journal of Pure and Applied Mathematics”, N. 49, 2023, 29-44, (ESCI WoS Journal) (ISSN: 2239-0227). [https://ijpam.uniud.it/journal/onl\\_2023-49.html](https://ijpam.uniud.it/journal/onl_2023-49.html) Y-Category
18. A. Waqar, **K. Shabbir**, M. Arshad, J. K. K. Asamoah, A. M. Galal, “Some Novel Estimates of Integral Inequalities for a Generalized Class of Harmonical Convex Mappings by Means of Center-Radius Order Relation”, “Journal of Mathematics”, 2023, (IF. 1.555) (ISSN: 2314-4629), <https://doi.org/10.1155/2023/8865992> X-Category
19. L. Gurcan, **K. Shabbir**, K. Ahmad, M.-F. Bota, “Stability, Data Dependence, and Convergence Results with Computational Engendering of Fractals via Jungck–DK Iterative Scheme”, “Fractal & Fractional”, 7(6):418, 2023, (IF. 3.577) (ISSN: 2504-3110), <https://doi.org/10.3390/fractfract7060418> W-Category
20. W. Afzal, **K. Shabbir**, T. Botmart, S. Treanta. “Correction: Some new estimates of well known inequalities for-Godunova-Levin functions by means of center-radius order relation”, “AIMS Mathematics”, 8(6), 2023, 13789-13790, (IF. 2.739) (ISSN: 2473-6988), <https://doi.org/10.3934/math.2023702> W-Category
21. W. Afzal, **K. Shabbir**, T. Botmart. “Correction: Generalized version of Jensen and Hermit-Hadamard inequalities for interval-valued-Godunova-Levin functions”, “AIMS Mathematics”, 8(6), 2023, 13793-13794. (IF. 2.739) (ISSN: 2473-6988), <https://doi.org/10.3934/math.2023704> W-Category
22. L. Gurcan, K. Ahmad, **K. Shabbir**, M.-F. Bota, “Computational comparative analysis of fixed point approximations of generalized  $\alpha$ -nonexpansive mappings in hyperbolic spaces”, “AIMS Mathematics”, 8(2), 2023, 2489-2507, (IF. 2.739) (ISSN: 2473-6988), <https://doi.org/10.3934/math.2023129> W-Category

## In 2022

23. T. Saeed, W. Afzal, **K. Shabbir**, S. Treanta, M. De la Sen, “Some Novel Estimates of Hermite–Hadamard and Jensen Type Inequalities for  $(h_1, h_2)$ -Convex Functions Pertaining to Total Order Relation”, “Mathematics”, 10(24):4777, 2022, (IF. 2.592) (ISSN: 2227-7390), <https://doi.org/10.3390/math10244777> W-Category
24. W. Afzal, **K. Shabbir**, T. Botmart, S. Treanta, “Some new estimates of well known inequalities for  $(h_1, h_2)$ -Godunova-Levin functions by means of center-radius order relation”, “AIMS Mathematics”, 8(2), 2022, 3101–3119, (IF. 2.739) (ISSN: 2473-6988). <https://doi.org/10.3934/math.2023160> W-Category
25. W. Afzal, **K. Shabbir**, S. Treanta, K. Nonlaopon, “Jensen and Hermite-Hadamard type inclusions for harmonical  $h$ -Godunova-Levin functions”, “AIMS Mathematics”, 8(2), 2022, 3303–3321. (IF. 2.739) (ISSN: 2473-6988), <https://doi.org/10.3934/math.2023170> W-Category
26. W. Afzal, **K. Shabbir**, T. Botmart, “Generalized version of Jensen and Hermite-Hadamard inequalities for interval-valued  $(h_1, h_2)$ -Godunova-Levin functions”, “AIMS Mathematics”, 7(10), 2022, 19372-19387. (IF. 2.739) (ISSN: 2473-6988), <https://doi.org/10.3934/math.20221064> W-Category
27. X. Zhang, **K. Shabbir**, W. Afzal, H. Xiao, D. Lin, “Hermite–Hadamard and Jensen-Type Inequalities via Riemann Integral Operator for a Generalized Class of Godunova–Levin Functions”, “Journal of Mathematics”, 2022, (IF. 1.555) (ISSN: 2314-4629), <https://doi.org/10.1155/2022/3830324> X-Category

28. W. Afzal, A. Alb Lupas, **K. Shabbir**, “Hermite–Hadamard and Jensen-Type Inequalities for Harmonical  $(h_1, h_2)$ -Godunova–Levin Interval-Valued Functions”, “Mathematics”, 10(16), 2022, 2970, (IF. 2.592) (ISSN: 2227-7390). <https://doi.org/10.3390/math10162970> W-Category

29. J. Iqbal, **K. Shabbir**, L. Guran, “Stability Analysis and Computational Interpretation of an Effective Semi-Analytical Scheme for Fractional Order Non-Linear Partial Differential Equations”, “Fractal Fractional”, 6(7), 2022, 393, (IF. 3.577) (ISSN: 2504-3110), <https://doi.org/10.3390/fractfrac6070393>. X-Category

30. J. Jia, **K. Shabbir**, K. Ahmad, N. A. Shah, and T. Botmart, “Corrigendum to Strong Convergence of a New Hybrid Iterative Scheme for Nonexpensive Mappings and Applications”, “Journal of Function Spaces”, 2022, Article ID 9815927, (IF. 1.807) (ISSN: 2314- 8896), <https://doi.org/10.1155/2022/9815927>, <http://www.hindawi.com/journals/jfs/2022/9815927/> X-Category

31. J. Jia, **K. Shabbir**, K. Ahmad, N. A. Shah, T. Botmart, “Strong Convergence of a New Hybrid Iterative Scheme for Nonexpensive Mappings and Applications”, “Journal of Function Spaces”, 2022, Article ID 4855173, (IF. 1.807) (ISSN: 2314-8896), <https://doi.org/10.1155/2022/4855173>. X-Category

### In 2021

32. Javed Iqbal, **K. Shabbir**, L. Guran, “Semi-Analytical Solutions of Some Nonlinear-Time Fractional Models Using Variational Iteration Laplace Transform Method”, “Journal of Function Space”, 2021, Article ID 8345682, (IF. 1.807) (ISSN: 2314-8896), <https://doi.org/10.1155/2021/8345682>. X-Category

33. Z. Lv, M. J. A. Junjua, M. T. Tahir, **K. Shabbir**, “Certain Bounds of Regularity of Elimination Ideals on Operations of Graphs”, “Mathematical Problems in Engineering”, 2021, Article ID 3697430, (IF. 1.305)(ISSN: 1024-123X), <https://doi.org/10.1155/2021/3697430>. W-Category

34. A. R. Nizami, **K. Shabbir**, M. S. Sardar, M. Qasim, M. Cancan, S. Ediz, “Base polynomials for degree and distance based topological invariants of n-bilinear straight pentachain”, “Journal of Information and Optimization Sciences”, 42(7), 2021, 1479-1495, (ISSN: 0252- 2667) <https://doi.org/10.1080/02522667.2021.1903202> Non-HEC

35. Y.-P. Lv, **K. Shabbir**, Sundus S., F. Ali, J. Kafle, “Extragradient method for fixed points in CAT(0) spaces”, “Journal of Function Space”, 2021, Article ID 7808255, (IF. 1.807) (ISSN: 2314-8896), <https://doi.org/10.1155/2021/7808255>, <http://www.hindawi.com/journals/jfs/2021/7808255/>. X-Category

36. T.-M. Yu, A.A. Shahid, **K. Shabbir** and Y.-M. Li, “An iteration process for a general class of contractive-like operators, Convergence, stability and polynomiography”, “AIMS Mathematics”, 6(7), 2021, 6699–6714, (IF. 0.882) (ISSN:2473-6988), <https://doi.org/10.3934/math.2021393>, <http://www.aimspress.com/article/doi/10.3934/math.2021393> X-Category

37. Raza, D.A. Alrowaili, M. Javaid and **K. Shabbir**, “Computing Bounds of Fractional Metric Dimension of Metal Organic Graphs”, “Journal of Chemistry”, 2021, Article ID 5539569, (IF. 1.726) (ISSN: 2090-9063), <https://doi.org/10.1155/2021/5539569>, <http://www.hindawi.com/journals/jchem/2021/5539569/> X-Category

38. S. E. Farooq , **K. Shabbir**, S. Qaisar, F. Ahmad and O. A. Almatroud, “New Inequalities of Simpson’s type for differentiable functions via generalized convex function”, “Comptes Rendus Mathematique”, 359(2), 2021, 137-147, (IF. 0.68) (ISSN: 1778- 3569), <https://doi.org/10.5802/crmath.152>, [https://comptes-rendus.academisciences.fr/mathematique/item/CRMATH\\_2021\\_359\\_2\\_137\\_0/](https://comptes-rendus.academisciences.fr/mathematique/item/CRMATH_2021_359_2_137_0/) Non-HEC

## In 2020

39. A. Naseem, **K. Shabbir**, “The radio number for wedge sum of graphs”, “Ars Combinatoria”, 151, 2020, 109-122, (IF. 0.265) (ISSN: 0381-7032), <http://bkocay.cs.umanitoba.ca/arscombinatoria/index.html> W-Category
40. M. M. Ghalib, A.A. Zafar, M.B. Riaz, Z. Hammouch, **K. Shabbir**, “Analytical approach for the steady MHD conjugate viscous fluid flow in a porous medium with nonsingular fractional derivative”, “Physica A”, 2020, (IF. 2.50) (ISSN: 0378-4371), <https://doi.org/10.1016/j.physa.2019.123941>, <https://www.sciencedirect.com/science/article/abs/pii/S0378437119321788?via> W-Category
41. M. Ghalib, A. A. Zafar, Z. Hammouch, M. B. Riaz, **K. Shabbir**, “Analytical results on the unsteady rotational flow of fractional-order non-Newtonian fluids with shear stress on the boundary”, “Discrete and Continuous Dynamical Systems Series S”, 13(3), 2020, 683-693, (IF. 0.976) (ISSN: 1937-1632), <https://doi.org/10.3934/dcdss.2020037>, <https://www.aimsciences.org/article/doi/10.3934/dcdss.2020037> W-Category
42. A.A. Zafar, **K. Shabbir**, A. Naseem, W. Ashraf, “MHD Natural Convection Boundary-layer Flow Over a Semi-Infinite Heated Plate with Arbitrary Inclination”, “Discrete and Continuous Dynamical Systems Series S”, 13(3), 2020, 1007-1015, (IF. 0.976) (ISSN: 1937-1632), <https://www.aimsciences.org/article/doi/10.3934/dcdss.2020059> W-Category

## In 2019

43. M. J. A. Junjua, **K. Shabbir**, A. Naseem, “Regularity of elimination ideals of certain family of graphs”, “Ars Combinatoria”, 2019, (IF. 0.265) (ISSN:0381-7032), W-Category
44. A. Naseem, **K. Shabbir**, M. Ramzan, “Further results on radio number of wedge sum of graphs”, “Ars Combinatoria”, 2019, (IF. 0.265) (ISSN:0381-7032). W-Category
45. J-H Tang, U. Ali, M. Javaid, **K. Shabbir**, “Zagreb Connection Indices of Subdivision and Semi-Total Point Operations on Graphs”, “Journal of Chemistry”, 2019, Article ID 9846913, (IF. 1.726) (ISSN: 2090-9063), <https://www.hindawi.com/journals/jchem/2019/9846913/> W-Category
46. **K. Shabbir**, “M-Strings and (0,2) Sigma Model Anomaly”, “International Journal of Modern Physics A”, 34(10), 2019, 1-8, (IF. 1.7) (ISSN: 0217-751X). <https://doi.org/10.1142/S0217751X19500581> , <https://www.worldscientific.com/doi/abs/10.1142/S0217751X19500581> W-Category
47. J.-B. Liu, S. Javed, M. Javidi, **K. Shabbir**, “Computing first general Zagreb index of operations on Graphs”, “IEEE Access”, 7(1), 2019, 47494-47502, (IF. 4.098) (ISSN: 2169-3536). <https://ieeexplore.ieee.org/document/8688410> W-Category
48. N. Iftikhar, D. Baleanu, S.M. Husnine, **K. Shabbir**, “Magnetohydrodynamic mixed convection flow of Jeffery fluid with Thermophoresis”, “Soret and Dufour effects and convective condition, AIP Advances”, 9(3), 2019, 1-9, (IF. 1.653) (ISSN: 2158- 3226). <https://aip.scitation.org/doi/10.1063/1.5086534> W-Category
49. **K. Shabbir**, U. Shahzad, “Engineering Adjoint Hypermultiplet”, European Physics Journal Plus”, 134(1), 2019, 1-9, (IF. 2.240) (ISSN: 2190-5444), <https://link.springer.com/article/10.1140/epjp/i2019-12408-6#citeas> W-Category

## In 2018 - 2008

50. A. Naseem, **K. Shabbir**, H. Shaker, “Radio Number of Edge Joint Graphs”, “Ars Combinatoria”, 139, 2018, 337-351, (IF. 0.265) (ISSN: 0381-7032), <http://bkocay.cs.umanitoba.ca/arscombinatoria/index.html> W-Category

51. I. Anwar, **K. Shabbir**, “A Note on: Quasi-Linear Quotients and Shellability of pure Simplicial Complexes”, “Communications in Algebra”, 46(2), 2017, 850-850, (IF. 0.481) (ISSN: 0092-7872), <https://doi.org/10.1080/00927872.2017.1327599> W-Category

52. **K. Shabbir**, “Compactified webs and domain wall partition functions”, “European Physics Journal C”, 77(4), 2017, 1-6, (IF. 5.172) (ISSN: 1434-6044), <https://doi.org/10.1140/epjc/s10052-017-4809-6>, [https://epjc.epj.org/articles/epjc/abs/2017/04/10052\\_2017\\_Article\\_4809/10052\\_2017\\_Article\\_4809.html](https://epjc.epj.org/articles/epjc/abs/2017/04/10052_2017_Article_4809/10052_2017_Article_4809.html)

53. A. Iqbal, **K. Shabbir**, “M-strings and transverse orbifold”, European Physics Journal C”, 76(11), 2016, 1-6, (IF. 5.172) (ISSN: 1434-6044), <https://doi.org/10.1140/epjc/s10052-016-4453-6> W-Category

54. A. Iqbal, **K. Shabbir**, “Elliptic CY3folds and non- pertubative modular transformation”, European Physics Journal C”,, 76(3), 2016, 1-6, (IF. 5.172) (ISSN: 1434-6044), [10.1140/epjc/s10052-016-4006-z](https://doi.org/10.1140/epjc/s10052-016-4006-z) W-Category

55. M. B. Riaz, M. A. Imran, **K. Shabbir**, “Analytic solutions of Oldyrod-B Fluid with fractional derivatives in a circular duct that applies a Constant Couple”, “Alexandria Engineering Journal”, 55, 2016, 3267-3275, (IF. 3.696) (ISSN:1110-0168) <https://doi.org/10.1016/j.aej.2016.07.032>, <https://www.sciencedirect.com/science/article/pii/S111001681630206X> W-Category

56. A. Iqbal, B. A. Qureshi, **K. Shabbir**, “( $q, t$ ) identities and vertex operators”, “Modern Physics Letters A” , 31(11), 2016, 1-9, (IF. 1.338) (ISSN: 0217-7323), <https://doi.org/10.1142/S0217732316500656>, <https://www.worldscientific.com/doi/10.1142/S0217732316500656> W-Category

57. M. B. Riaz, M. A. Imran, **K. Shabbir**, “New Exact Solutions for the Flow of Generalized Maxwell fluid”, “J. Comput. Theor. Nanosci.”, 13(8), 2016, 5254-5257, (IF. 1.665) (ISSN: 1546-1955), <https://doi.org/10.1166/jctn.2016.5410>, <https://www.ingentaconnect.com/content/asp/jctn/2016/00000013/00000008/art00058> W-Category

58. A. Iqbal, A. Z. Khan, B. A. Qureshi, **K. Shabbir**, M. A. Shehper, “Topological field theory amplitudes for  $A_{N-1}$  fibration”, “Journal of High Energy in Physics”, 12, 2015, 1-22, (IF. 6.023) (ISSN: 1029-8479), [https://doi.org/10.1007/JHEP12\(2015\)017](https://doi.org/10.1007/JHEP12(2015)017), [https://link.springer.com/article/10.1007/JHEP12\(2015\)017](https://link.springer.com/article/10.1007/JHEP12(2015)017) W-Category

59. A. Iqbal, B. A. Qureshi, **K. Shabbir**, M. A. Shehper, “Brane Webs and Random Processes”, “International Journal of Modern Physics A”, 30(33), 2015, 1-12, (IF. 1.7) (ISSN: 0217-751X), <https://doi.org/10.1142/S0217751X15502024>, <https://www.worldscientific.com/doi/abs/10.1142/S0217751X15502024> W-Category

60. **K. Shabbir**, “Detection Of the Torsion Classes in the Brieskorn Modules Of Homogeneous Polynomials”, “Revista de la Unión Matemática Argentina”, 56(2), 2015, 85-94, (IF. 0.517), (ISSN: 0041-6932) <https://doi.org/10.1007/s13398-012-0100-8> W-Category

61. F. Aroca, M. Gomez-Morales, **K. Shabbir**, “Torical Modication of Newton non-degenerate Idea”, “Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales. Serie A. Matemáticas”, 107, 2013, 221-239, (IF. 1.074) (ISSN: 1578-7303 ), <https://doi.org/10.1007/s13398-012-0100-8> <https://link.springer.com/article/10.1007/s13398-012-0100-8> W-Category

62. A. Iqbal, C. Kozcaz, **K. Shabbir**, “Refined Topological Vertex, Cylindric Partitions and the U(1) Adjoint Theory”, “Nuclear Physics B”, 838(3), 2010, 422-457, (IF. 3.735) (ISSN: 0550-3213), 10.1016/j.nuclphysb.2010.06.010, W-Category  
<https://www.sciencedirect.com/science/article/abs/pii/S0550321310003263?via>

63. **K. Shabbir**, “On the Torsion of Brieskorn Modules of Homogeneous Polynomials”, “Rendiconti del Seminario Matematico della Università di Padova”, 120, 2008, 147- 156, 2008, (IF. 0.48) (ISSN: 0041-8994), W-Category

No of Publications (Last 5 Years): **38**

Total No of Publications: **63**

Total Number of Citation: **585**

Total impact Factor: **119.277**

W-Category: **41**

h-index: **13**

X-Category: **11**

Non-HEC: **4**

Y-Category: **7**

## Students Supervision

### ◊ Ph.D Students Supervision:

- **Mr. Khushdil Ahmad** Enrolled since 2021

\* Chapter Published: **K. Shabbir, K. Ahmad**, L. Guran, “Existence and Computational Approximation of Fixed Points of Generalized Multivalued Mappings in Banach Space”, “Recent Developments in Fixed-Point Theory”, Springer, Singapore”, 2024, [https://doi.org/10.1007/978-981-99-9546-2\\_13](https://doi.org/10.1007/978-981-99-9546-2_13)

\* **K. Ahmad, K. Shabbir**, N. Nazar, Convergence Analysis of Picard Thakur Hybrid Iterative Scheme for  $\alpha$ -Nonexpansive Mappings in Uniformly Convex Banach Spaces, *International Journal of Applied Mathematical Research*, 13(1) (2024), 34 - 48.

\* **K. Ahmad**, E. R. Dolores-Cuenca, and **K. Shabbir**. Shuffle series. arXiv preprint arXiv:2311.08717 (2023) (Submitted).

\* M. Abbas, **K. Ahmad, K. Shabbir**, Approximation of Fixed Point of Multivalued Mean Nonexpansive Mappings in CAT(0) spaces, *Journal of Prime Research in Mathematics*, 19(2) (2023), 1–16, (ISSN: 1817-3462), (SCOPUS indexed Journal).

\* L. Guran, **K. Shabbir, K. Ahmad**, M.-F. Bota, Stability, Data Dependence, and Convergence Results with Computational Engendering of Fractals via Jungck–DK Iterative Scheme, *Fractal Fract*, 2023, 7(6):418, (Impact factor 3,577) (ISSN: 2504-3110). <https://doi.org/10.3390/fractfract7060418>

\* L. Guran, **K. Ahmad, K. Shabbir**, M.-F. Bota, Computational comparative analysis of fixed point approximations of generalized  $\alpha$ -nonexpansive mappings in hyperbolic spaces, [J]. *AIMS Mathematics*, 2023, 8(2): 2489-2507. (Impact Factor 2.739) (ISSN 2473-6988). <https://doi.org/10.3934/math.2023129>

\* J. Jia, **K. Shabbir, K. Ahmad**, N. A. Shah, T. Botmart, Strong Convergence of a New Hybrid Iterative Scheme for Nonexpensive Mappings and Applications, *Journal of Function Spaces*, vol. 2022, Article ID 4855173, 11 pages, 2022, (Impact Factor 1.807) (ISSN: 2314-8896). <https://doi.org/10.1155/2022/4855173>

- **Mr. Waqar Ul Hassan** Enrolled since 2020

\* W. U. Hassan, **K. Shabbir**, A. Zeeshan, R. Ellahi, “Regression analysis for thermal transport of fractional-order magnetohydrodynamic Maxwell fluid flow under the influence of chemical reaction using integrated machine learning approach”, “Chaos, Solitons & Fractals”, 191, 2025, 115927, <https://doi.org/10.1016/j.chaos.2024.115927>

\* W. U. Hassan, **K. Shabbir**, M. I. Khan, L. Guran, “Computational Evaluation of Heat and Mass Transfer in Cylindrical Flow of Unsteady Fractional Maxwell Fluid Using Backpropagation Neural Networks and LMS”, “Mathematics”, 12(23), 2024, 3654, <https://doi.org/10.3390/math12233654>

- **Mr. Muhammad Junaid Ahmad Junjua** Enrolled Since 2016
  - \* **M.J.A. Junjua, K. Shabbir**, A. Naseem, Combinatorial Bounds of the Regularity of Elimination Ideals, *Ars Combinatoria*, 2023, 25-34. <https://dx.doi.org/10.61091/ars156-03>
  - \* Z. Lv, **M. J. A. Junjua, M. T. Tahir, K. Shabbir**, Certain Bounds of Regularity of Elimination Ideals on Operations of Graphs, *Mathematical Problems in Engineering* 2021, Article ID 3697430, 8 pages, (Impact Factor: 1.305)(ISSN: 1024-123X). <https://doi.org/10.1155/2021/3697430>
  - \* **M. J. A. Junjua, K. Shabbir**, A. Naseem, Regularity of elimination ideals of certain family of graphs, *Ars Combinatoria*, May 12, 2019. (Impact factor: 0.265) (ISSN:0381-7032).

### ◊ Ph.D Graduated under supervision:

- **Javed Iqbal**, Convergence and Stability Analysis for Some Fractional Order Nonlinear Models, 2019 - 2024.

### ◊ M.Phil Graduated under Supervision:

- Beenish Zafar, Exploring the Combinatorial Properties of Posets and Integer Partitions, 2022-2024.
- Khadija Ahsan, Extra Gradient Techniques for Solving Some Problems in Fixed Point Theory, 2022-2024.
- Mubashar Hussain, Solving Linear Delay Differential Equations Using Operational Matrices with Extreme Learning Machine Algorithm, 2022 - 2024.
- Inaam-Ur-Rehman, Exploring Fractional Differential Equations through Orthogonal Neural networks, 2022- 2024.
- Muhammad Tayyab Shafiq, On  $NH$ -Number of Neighborhood Complexes, 2020 - 2022.
- Muhammad Afzaal, On  $Sarw$  - Compactness,  $Sarw$  -Connectedness and Separation Axioms in Topological Spaces, 2021-2023
- Ramzan Afzal, On Rogers-Ramanujan Identities and Their Properties, 2021-2023.
- Faraz Ali, On the Stability and Convergence for the Jungck-Type Iterative Schemes, 2021-2023.
- Rizwan Ali, Milnor Fibrations and Regularity Conditions for Real Analytic Mappings, 2021-2023.
- M. Junaid Akram, Algebraic Integers of Pure Quintic Extensions, 2021-2023
- Hina Saeed, Radical Ideal Based Zero Divisor Graph of a Commutative Ring, 2021-2023.
- Zaheer Hussain, Computation for Lucky Number of Some Families of Planar Graphs, 2021-2023.
- Ahmad Raza, Computing Total Absolute Difference Edge Irregularity Strength of Some Families of Graphs, 2021-2023.
- Nazia Nazar, Approximating Fixed Points of Generalized  $\alpha$ -Nonexpansive Mappings in Uniformly Convex Banach Spaces, 2020-2022.
- Amir Rasheed, Characteristics of arithmetic functions and their graphs, 2020-2021.
- Aftab Zafar, Hermite-Hadamard and Jensen-type inequalities for interval valued generalized non-convex functions, 2020-2021.
- Waqar Afzal, Hermite-Hadamard and Jensen-type inequalities for generalized interval valued  $(h_1, h_2)$  Godunova-Levin functions, 2020-2021.

- Amad Adrees, Jensen, Hermit-Hadamard and Ostrowski type inequalities for generalized class of stochastic convex functions, 2020-2021.
- Muhammad Tajammal Tahir, Algebraic characterization of elimination ideals associated to graphs, 2020-2021.
- Muhammad Jahangir Jalal, On m-polar (a,b)-fuzzy positive implicative ideals in BCK-algebras, 2019-2020.
- Ahsan Iqbal, Novel concepts of doubt bipolar fuzzy fantastic ideals in BN-algebra, 2019-2020.
- Wardah, Regularity Bounds of Elimination Ideals, 2019-2020.
- Shan e Farooq, Simpson's and Katugampola Fractional Integral Inequalities and their Applications, 2019-2020.
- Warda Shoukat, Comparison of Analytical Solution of a Maxwell Fluid with Slip Effects in view of the Caputo and Atangana Baleno Derivatives, (Internal Examiner), 2019.
- Sania Nasir, Hydro-magnetic free convection flow of second grade fluid over an inclined infinite plate, (Internal Examiner), 2019.
- Muhammad Qasim, Schultz Invariants of Linear Pentachains, 2019.
- Hassan Mabroor, On Characterization of f- ideals, 2017.
- Muhammad Rehman, On Grobner Bases of Balanced Polyominoes, ideals, 2017.
- Eman Haider, On the chromaticity of Ladders, 2015.
- Shumaila Naseer, Face Anti-magic Labeling of Graphs, 2014
- Madeeha Javed, Topological Invariants of Fiber of Mixed polynomial, 2013
- Sadaf Naveed, Some Estimates of Hardy Type inequalities, 2009.

Total number of Mphil Student Supervised: **32**

#### ◇ **BSc (Hons) Graduated under Supervision:**

- Tooba Zahoor, Syzygy Conditions over a polynomial ring, 2024
- Yashfa Javed, Computation of Gröbner basis for Ideals over finite rings, 2024
- Ayesha Saleem, On Some Combinatorial Properties of Matroids, 2023.
- Aleeha Ijaz, Some properties of Bessel functions, 2021.
- Hamzah Naseer, A review of Fejér–Hadamard inequality for harmonically convex functions, 2021.
- Junaid Akram, A review of Hermite–Hadamard and Jensen-type inequalities for non-convex functions, 2021.
- Saira Bano, Some properties of  $\eta$ -convex stochastic processes, 2021.
- Rabbia Ashfaq, Cryptography and network security, 2020.
- Fareeha Yaqub, Some inequalities for s-convex functions, 2020.

- Zuha Idrees, Hermite-Hadamard type inequalities for  $h$ -convex stochastic processes, 2020.
- Hafiza Fasiha Faiz, Some topics in tropical algebra, 2019.
- Serosh Jameel, A review of topological groups, 2019.
- Bisma Ijaz, Graph Theory in Sudoku, 2019.
- Ghulam Mustafa, On commutative rings graded by groups, 2018.
- Hamza Saeed, On reconstruction of extremal trees, 2018.
- M. Adeel Ashraf, Factorability in quadratic number fields, 2018.
- Nusrat Mehdi, Some Facts about Power Graph, 2017.
- Eram Shahzadi, Coloring and Chromatic Polynomial of Cycle Type Graphs, 2017.
- Arooj Fatima, On Rainbow Coloring and Rainbow Connection Number of Some Trees, 2017.
- Hafiz Abdul Rehman, Computing the Metric Dimension of Wheel-like Graphs, 2017.
- Mehwish Mubeen, Introduction to Finite Element Analysis, 2016.
- Hira Rashid, On Topological Uniform Structures, 2016.
- Sana Latif, Introduction to Interval Analysis, 2016.
- Noor Fatima, Continued Fractions and Euclidean Algorithm, 2016.
- Zunaira Tahir, Orthogonal Polynomials and their Applications, 2016.
- Kainat Akbar, Non-linear Diophantine Equations, 2015.
- Fizza Miraj, Multiplicative Functions and Möbius Inversion Formula, 2015
- Maryam Yousaf, On some Fixed Point Theorem, 2014.
- Fatima Gul, Eulerian and Hamiltonian Graphs, 2014.
- Aliya Noreen, Antimagic Labeling of Graphs, 2014.
- Sabiha Tariq, Mathematical Models for Inventory Management, 2014.
- Malik Qudratullah, Tropical Meromorphic Functions, 2013.
- Maham Zahra, Ramsey Number of Graph, 2013.
- Madiha Irfan, Fundamental Theorem of Tropical Algebra, 2013.

Total number of undergraduate students Supervised: **34**

## Administrative and Academic Services

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- **Member** of Committee to prepare proposal for rationalization of Space at Main Campus & New Campus (Located at Kala Shah Kaku). May 22, 2025
- **Member** of Committee to rationalize the appointments of visiting faculty in the light of the courses offered by concern departments and the workload of regular faculty. March 13, 2025
- **Member** of Committee of Courses (COC) at Allama Iqbal Open University, Islamabad Pakistan February 26, 2025
- **Convener** of Financial Aid Committee, GC University, Lahore. January 10, 2025
- **Member:** of Asian Council of Science Editors. January - December 2025
- Member of the GC University Lahore Discipline Committee under section 12(1) of 1st Statutes of GC University. December 19, 2024
- **External Examiner:** for the evaluation of Ph.D Thesis of Ms. Asmat Batool under the titled “Existing and Approximation of Solution of Fractional Boundary Value Problems” at Department of Mathematics, University of the Punjab, Lahore. November 01, 2024
- **Convener** of HEC National Curriculum Review Committee for Mathematics degree programs. October 24-25, 2025
- **Member:** of the Grievance Redressal Committee (GRC) for Honhaar Scholarship Program, GC University Lahore. October 25, 2024
- **Member** of student Grievance Committee to look at the request of Bs (Hons) Statistics Student (Mr. Muhammad Zubair, Roll # 1304-BH-(E)-Stat-20). October 21, 2024
- **Convener** of the committee to probe the matter regarding the counterfeit signature of Resident Auditor in the documentation of ASSMS. October 16, 2024
- **Convener** of the selection Committee to make recommendations for the appointments of GC University employees for BS-01 to BS-16 (or equivalent) under the provision of 2nd Statutes of the GCU ordinance 2002. October 10, 2024
- **Member:** of University Grievance Committee to compile the PPRA profile, GC University, Lahore. October 10, 2024
- **Convener** of the Committee to probe the matter of Ms. Nimra Zafar candidate of MPhil admission in English, GC university, Lahore. October 03, 2024
- **Convener** of the “Technical Committee” under the requirement of PPRA to look after all matters related to the GC University Lahore September 30, 2024
- **External Examiner:** for the evaluation of M.Phil. Thesis by Mr. Muhammad Arslan Aslam under the titled “Theoretical study of MHD Jeffery fluid via singular and non-singular kernels” at Department of Mathematics, Riphah International University, Lahore. September 30, 2024
- **Convener** of the re-constitute the GCU employee loan Committee category A (BPS-16 & Above), GC University, Lahore. September 13, 2024
- **Member** to advise in the preparation of Model Class Rooms, GC University, Lahore. September 12, 2024

- **External Examiner:** for the evaluation of M.Phil. Thesis by Mr. Muhammad Azam under the titled “Some Mathematical Aspects of Knotted Polymers” at Department of Mathematics, University of Central Punjab, Lahore. September 09, 2024
- **External Examiner:** for the evaluation of M.Phil. Thesis by Mr. Muhammad Ali Hassan under the titled “Some Combinatorial Aspects of Knotted Molecules” at Department of Mathematics, University of Central Punjab, Lahore. September 09, 2024
- Member of Advisory Board of the **Scientific Inquiry and Review (SIR)** Journal.
- **External Examiner:** for the evaluation of M.Phil. Thesis at Department of Mathematics, University of Sialkot. July 24, 2024
  - \* Ms. Farah Siddique, Entitled “Study on Resistance Distance based Graph Invariants of Finite Networks”.
  - \* Ms. Zunaira Saeed, Entitled “Study of Entropy-Based Invariants in two types of Chain Hex Derived Network”.
  - \*Ms. Mehreen Zahra, Entitled “Computational study of Resistance Distance and Kirchhoff Index of Connected Triangular Chain Graph”.
  - \*Ms. Maryam Munir, Entitled “Resistance Distance and Kirchhoff Index of Double Nested Chain Graph”.
  - \*Ms. Muqadas Shahzad, Entitled “Study of Maximum Upper and Minimum Lower Bounds of Connected Graphs”
- **External Examiner:** for the evaluation of M.Phil. Thesis by Ms. Kinza Abdul Ghaffar under the titled: “Generalized Anti-Derivations of Generalized Quaternions Algebras” at Department of Mathematics, University of the Punjab, Lahore. July 17, 2024
- **Member** of DTRC for the Department of Computer Science, GC University, Lahore June 10, 2024
- **Member** in the committee of Affiliated Collages GC University, Lahore June 07, 2024
- Nominate as Internal Member in the committee of the self Post Graduate program review Panel 2023-2024. May 27, 2024
- Judge in 10Th Open house activity at Namal University, Mainwali May 24, 25, 2024
- Member of 46Th Meeting of Board of Advanced Studies and Research (BASAR) at University of Management Technology (UMT), Lahore as External Expert May 16, 2024
- External Examiner of Mr. Ahmad Bilal (Ph.D Student) Titled: Bounds for The Spectral Radii and Energies of Graph Operations, Department of Mathematics, University of the Punjab, Lahore. May 13, 2024.
- External Evaluation for Dr. Nazish Shahid for promotion to full Professor at “Forman Christian College (A Chartered University, FCCU)” April 3, 2024
- Member for the 45th meeting of BASAR “ University of Management & Technology Lahore” March 8. 2024
- Member of Departmental Tenure Review Committee Department of Mathematics, Government College University, Faisalabad Febrary 27, 2024
- Member of the Academic Council, University of Narowal January 29, 2024
- Subject Expert for the Post of Professor at University of Central Punjab, Lahore. January 5th, 2024.
- Controller of Examinations, Department of Mathematics, Government College University Lahore, 2012 – Present

- Incharge MPhil Program, Government College University Lahore 2018 – Present
- Principal Investigator & Director Research HEC project 7359 National Research Program for Universities (NRPU-HEC) 2019 – 2021
- **Member of Departmental Tenured Review Committee**
  - \*. Government College University Lahore, Pakistan
  - \*. Abdus Salam School of Mathematical Sciences Lahore, Pakistan
  - \*. Government College Women University Sialkot, Pakistan
  - \*. Fatima Jinnah Women University Rawalpindi, Pakistan
  - \*. Government College University Faisalabad, Pakistan
- **Expert & Member, Selection Board**
  - \*. University of Gujrat, (Main & Narowal Campus) Narowal, Pakistan
  - \*. University of Narowal Sialkot, Pakistan
  - \*. Government College Women University Lahore, Pakistan
  - \*. University of the Punjab Okara, Pakistan
  - \*. University of Okara Lahore, Pakistan
  - \*. University of the Education Faisalabad, Pakistan
  - \*. University of agriculture Lahore, Pakistan
  - \*. University of Management and Technology Lahore, Pakistan
- **Member, Board of Studies and Faculty**
  - \*. Abdus Salam School of Mathematical Sciences Lahore, Pakistan
  - \*. Government College University Lahore, Pakistan
  - \*. Government College University Faisalabad, Pakistan
  - \*. Lahore College for Women University Lahore, Pakistan
  - \*. University of Central Punjab Lahore, Pakistan
  - \*. University of Mianwali] Mianwali, Pakistan
  - \*. University of Education Lahore, Pakistan
  - \*. University of the Punjab Lahore, Pakistan
  - \*. Allama Iqbal Open University Lahore, Pakistan
- **External Examiner**
  - \*. University of the Punjab (Lahore, Rawalpindi, Gujranwala & Quaid-e-Azam Campus) Lahore, Pakistan
  - \*. Abdus Salam School of Mathematical Sciences Lahore campus, Pakistan
  - \*. COMSATS University Islamabad, Lahore, Pakistan
  - \*. University of Management and Technology Lahore, Pakistan
  - \*. University of Engineering and Technology Lahore, Pakistan
  - \*. University of Gujrat Gujrat, Pakistan
  - \*. University of Sargodha Sargodha, Pakistan
  - \*. University of Education Lahore, Pakistan
- **Judge in National and International Mathematical Contests**
  - \*. Judge for the 2022 International Science Olympiad: The International Walisongo Science Competition (IWSC) organized by the Faculty of Science and Technology, Universitas Islam Negeri Walisongo Semarang, Semarang-Indonesia
  - \*. Judge in the poster competition of the Department of Mathematics on June 21st, 2022 at University of Central Punjab (UCP) Lahore-Pakistan

## Conferences and Workshops

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- **Member of National Scientific Committee** at 7th International Conference On Pure and Applied Mathematics (ICPAM-2025) by Department of Mathematics, University of Sarghoda. April 17-18, 2025
- **Invitation as a Speaker** at 7th International Conference On Pure and Applied Mathematics (ICPAM-2025) by Department of Mathematics, University of Sarghoda. April 17-18, 2025
- **Invitation as Keynote speaker** at 3rd International Conference on Recent Advances in Mathematics (CORAM 2025), Department of Mathematics, Division of Science and Technology University of Education, Lahore Pakistan. April 16-17, 2025.
- **Member of Advisory Committee**, 3rd International Conference on Recent Advances in Mathematics (CORAM 2025), Department of Mathematics, Division of Science and Technology University of Education, Lahore Pakistan. April 16-17, 2025.
- **Invitation as Keynote Speaker** at 8th UMT International Conference on Pure and Applied Mathematics (8th UICPAM-2025) April 14-16, 2025
- **Invitation as Main Speaker** at 1st National Conference on Mathematics: Quality Education for Sustainability (NCM-2025), in Department of Mathematics, Baba Guru Nanak University, Nankana Sahib, Pakistan. April 10-11, 2025
- **Invitation as Keynote Speaker** at 2nd International Conference on Mathematics for Sustainable Future ICMSF-2024 at The Women University Multan. December 18-19, 2024
- **Member of Advisory Committee** at 2nd International Conference on Mathematics for Sustainable Future ICMSF-2024 at The Women University Multan. December 18-19, 2024
- **Invitation as Keynote Speaker** at Two Days, 3rd International conference on Recent Developments in Pure and Applied Mathematics organized by Department of Mathematics, GC University Faisalabad & GCU Faisalabad. December 18-19, 2024
- **Invitation as Main Speaker:** International Conference on Mathematics and Mathematics Education organized by Indonesian Mathematical Society (IndoMS) Central Region. December 5th, 6th-2024
- **Participation:** Symposium Beyond Boundaries: Interdisciplinary Perspectives, Department of Mathematics, GC University, Lahore Pakistan. November 12, 2024
- **Invited Speaker:** Hybrid Seminar for the students of University Of Education Lahore Pakistan. 2024
- **Invited Speaker:** Advancement in Mathematics, Organized by Department of Mathematics, GC University, Faisalabad. May 27, 2024
- **Participation:** CIMPA Research School on Algebra and Algebraic Geometry for Applications. February 26 - March 8, 2024
- **Paper presentation:** *The algebra of Boole: Unleashing the Power of Logic and Cryptography*, in 2nd International Conference on Recent Advances in Mathematics (CORAM 2023) 04 - 05, December 2023.
- **Member of Advisory Committee**, 2nd International Conference on Recent Advances in Mathematics (CORAM 2023) December 4-5, 2023
- **Member of National Scientific Advisory Committee**, 7th UMT International Conference on Pure and Applied Mathematics (7th UICPAM 2023).

- **Invited speaker**, 6th International Conference on Pure and Applied Mathematics (ICPAM), December 4<sup>th</sup>-5<sup>th</sup>, 2023, Department of Mathematics, University of Sargodha, Sargodha, Pakistan.
- **Editor/Reviewer**, for the 10th International Congress on Industrial and Applied Mathematics, Waseda University, Tokyo, Japan - ICIAM 2023 Tokyo, August 20th -25th, 2023. <https://iciam2023.org>
- **Invited speaker**, 9th SEAMS-UGM 2023 International Conference Mathematics and Its Applications, during Summer School: "Number Theory and Cryptography," Department of Mathematics Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada (UGM), in collaboration with the Department of Computer Science and Electronics and Department of Management Universitas Gadjah Mada, in Yogyakarta, Indonesia, July 10th -24th, 2023.
- **Invited resource person**, ERASMUS + International Staff Week, "Vasile Goldis" Western University of Arad, Romania 2023.
- **Invited speaker**, The Academic Days of Arad XXXIIrd Edition, "Vasile Goldis" Western University of Arad, Romania, May 23th -27th, 2023.
- **Invited speaker**, International Workshop, Computer security, current challenges, Department of Economic and Technical Sciences, "Vasile Goldis" Western University of Arad, Romania, May 18th, 2023.
- **Resource person from GC University Lahore**- 2nd Maths Circle activity, FG Public School RA Bazar, Lahore, Pakistan, Feb. 03rd, 2023.
- **Invited speaker**, 1st National Conference on Emerging Horizon in Science and Technology, NCHEST 2022, University of Central Punjab, Lahore, Pakistan, December 26th -27th, 2022.
- **Resource person from GC University Lahore** - Maths Circle activity at Abid Majeed PS (B) RA Lhr, December 12th, 2022, Lahore, Pakistan.
- **Research Group Leader-Topology**, Algebra and Geometry (TAG), Seminar Series, Department of Mathematics, GC University of Lahore, Pakistan, December 2022.
- **Main Speaker** for seminar on Topology of Shapes at Govt. Islamia Graduate College for Women, Cooper Road, Lahore Pakistan, December 17th, 2022.
- **Invited speaker**, 3rd National Conference on Mathematics and Applications, Department of Mathematics, University of Sargodha, Pakistan, December 1th -2th, 2022.  
<https://su.edu.pk/news/3rd-National-Conference-on-Mathematic-and-Applications>
- **Guest speaker**, Algebraic Geometry Seminar Series, KBK ALJABAR UIN WALISONGO SEMARANG, November 28th, 2022, Indonesia, zoom meeting: <http://uinws.link/kbkaljabar>
- **Invited speaker**, Two-Days International Workshop on Recent Developments in Pure and Applied Mathematics, STC Hall, Department of Mathematics, Government College University Faisalabad, New Campus, Jhang Road, Faisalabad Pakistan, October 09th-10th, 2022.
- **Member of Scientific Advisory Committee**, 1st International Conference on Mathematics for a Sustainable Future (ICMSF), Two Days Conference, Department of Mathematics, The Women University Multan, December 12th -13th, 2022. <https://main.wum.edu.pk/icmfs/>
- **Invited as Judge** at the final stage of international science Olympiad: The International Walisongo Science Competition (IWSC) officially held by the Faculty of Science and Technology, Universitas Islam Negeri Walisongo Semarang, Indonesia, June 28th-July 24th, 2022, with themes "Building a Brilliant Future Through Science". <https://iwsc.walisongo.ac.id/>

- **Invited as Judge** in the poster competition of the Department of Mathematics on June 21st, 2022 at University of Central Punjab (UCP) Lahore.
- **Attended workshop** on Experiential Workshop on Evolving Math Circles outreach in Pakistan, LUMS, June 23th-24th, 2022.
- **Member of Scientific Advisory Committee**, Academia International Conference Mathematics and Mathematics Education, New Trends in Mathematics and Mathematics Education (AICMME-2021), Siirt University, Turkey, December 1th -3th, 2021. [https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=&ved=2ahUKEwiFkcS6uZL7AhXSQPEDHQ\\_WA7IQFnoECBIQAAQ&url=https%3A%2F%2Fmehab.siirt.edu.tr%2Fdosya%2Faktivite%2Fbildiri-ozetleri-kitapcigi-siirt-202262214147533.pdf&usg=AOvVaw0thqdlOgPrR\\_YHhPfsNGRg](https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=&ved=2ahUKEwiFkcS6uZL7AhXSQPEDHQ_WA7IQFnoECBIQAAQ&url=https%3A%2F%2Fmehab.siirt.edu.tr%2Fdosya%2Faktivite%2Fbildiri-ozetleri-kitapcigi-siirt-202262214147533.pdf&usg=AOvVaw0thqdlOgPrR_YHhPfsNGRg)
- **Keynote speaker**, 5th International Conference on Pure and Applied Mathematics (ICPAM-2020), Department of Mathematics, University of Sargodha, Sargodha, Pakistan, February 21th-23th, 2020. <http://icpam.uos.edu.pk/#speakers>
- **Member of Organizing Committee**, 2018 International Conference on Mathematics and its Applications, Government College University, Lahore, Pakistan, November 13th -15th, 2018.
- **International participation**, 6th International Conference on 21st Century Mathematics, Abdus Salam School of Mathematical Sciences, GC University Lahore, March 6th-9th, 2013, Pakistan.
- **International participation**, 50 years of Topology, Geometry and Physics, Cinvestav, Mexico City, 2011.
- **International participation**, Algebraic Methods in Geometry: Commutative and Homological Algebra in Foliations and Singularities (School and Conference in honour of Xavier Gómez-Mont on the occasion of his 60th Birthday), CIMAT, Guanajuato, México, September 2nd, 2011.
- **Seminar talk**, Milnor Algebras & Brieskorn modules of homogeneous polynomials, Colloquium, Instituto de Matemáticas (Unidad Cuernavaca) Universidad Nacional Autónoma de México, Mexico, May 2011.
- **International participation**, Advanced School and Conference on Hodge Theory and Related Topics, ICTP, Trieste, Italy, 2010.
- **Invited talk**, Some Algebraic and Geometric Invariants, University of Vienna, Austria, 2009.
- **Invited talk**, Guass-Manin Connestions & Torsion Class of Brieskorn Modules, Johannes Kepler Universität, Linz, Austria, 2009.
- **International participation**, 4th International Conference on 21st Century Mathematics 2009, Abdus Salam School of Mathematical Sciences, GC University Lahore, Pakistan, 4th-8th March, 2009.
- **International participation**, Advanced School and Conference on Knot Theory and its Application, ICTP, Trieste, Italy, 2009.
- **Paper presentation**, LUMS 2nd International Conference on Mathematics and its Applications in Information Technology, Lahore University of Management Sciences, Pakistan, March 2008.
- **Paper presentation**, 1st Mathematics Conference in CASPAM, Bahauddin Zakariya University, Multan, Pakistan, July 2007.
- **International participation and Member of Organizing Committee**, 3rd International Conference on 21st Century Mathematics 2007, Abdus Salam School of Mathematical Sciences, GC University Lahore, Pakistan, March 2007.

- **International participation**, 8th International Pure Mathematics Conference on Algebra, Analysis & Geometry, Quaid-i-Azam University, Preston University and the Pakistan Mathematical Society, Islamabad, Pakistan, 2007.
- **International participation**, CIMPA School on Arrangements, Local systems and Singularity theory, Istanbul, Turkey, 2007.
- **International participation**, CIMPA School on New Trends in Singularity Theory, Madrid, Spain, 2006.
- **National participation**, Communications Skill Workshop, School of Mathematical Sciences, Lahore, Pakistan, 21th December, 2006.
- **Participation** on Screening Test of 2nd National Science Talents Contest (NSCT-2), STEM Career Projects, HEC and Pakistan Atomic Energy Commission, Pakistan, 7th February, 2005.
- **International participation and Member of Organizing Committee** for 2nd World Conference on 21st Century Mathematics, 2005, Abdus Salam School of Mathematical sciences, Government College University, Lahore, Pakistan, 2005.

## International Research Grants & Contracts

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- Universitas Gadjah Mada (UGM) in Yogyakarta, Indonesia 2023 (Online).
- “Vasile Goldis” Western University of Arad, Romania, research visit with travel and accommodation grant from research project, 2023.
- KBK ALJABAR UIN WALOSONGO SEMARANG-Indonesia 2023 (Online)
- Award grant of 2.14 million (PKR) as sole principal Investigator, against National Research Program for Universities (NRPU-HEC) project 2019-2021, Feb 13th, 2019.
- Grant for Conference/School Advanced School and Workshop on Geometry of Discrete Actions, ICTP, Trieste, Italy, August 24th- September 4th, 2015.
- **Postdoctoral Fellowship 2**, Offered in ICMC, Universidade de Sao Paulo, Brazil, August 12th, 2015.
- Travel grant of 1500 USD for CIMPA School, Istanbul, Turkey by CLAY Institute of Mathematics USA, 2014.
- Grant for CIMPA School in School and Workshop on Singularities in Geometry, Topology, Foliations and Dynamics, CIMPA School Instituto de Matemáticas de la Universidad Nacional Autónoma de México (Unidad Cuernavaca), Mexico, November 24th-December 19th, 2014.
- Grant for CIMPA School in Algebraic Geometry and Number Theory, Istanbul, Turkey, 2014.
- Travel grant of CIMPA School in Geometry and Topology of Singular Varieties. Theory and Applications, Hanoi, Vietnam, December 2nd-14th, 2013.
- Postdoctoral scholarship by TWAS (3000 USD), 2011-2012.
- Postdoctoral Scholarship by CONACYT (23000 USD), Mexico, 2011-2012.
- Research Grant of UNAM, Mexico, Science Faculty, Mount Royal University, Calgary, Canada, 2012.
- Research Grant of UNAM, Mexico, Academic visit to University of Saskatchewan, Canada, 2000 USD, 2012.

- Grant for Conference/School of CIMAT, Mexico, 2011.
- **Postdoctoral Fellowship 1**, Universidad Nacional Autónoma de México, Mexico, March 2011–2012. Advisor: Prof. Dr. Jose Seade (Universidad Nacional Autónoma de México, Mexico).
- Grant for Conference/School of ICTP Summer School & Conference on Hodge Theory and Related Topics, Trieste, Italy, June 14th- July 2nd, 2010.
- Grant for Conference/School of ICTP Advanced School and Conference on Knot Theory and its Applications, Trieste, Italy, May 11th - 29th, 2009.
- Grant for invited lecture Guass-Manin Connections & Torsion Class of Brieskorn Modules, Johannes Kepler Universität, Linz, Austria, 2009.
- Grant for invited lecture Some Algebraic and Geometric Invariants, University of Vienna, Vienna, Austria, 2009.
- Doctoral Scholarship of HEC and Punjab Government, 2004-2008.
- Grant of CIMPA School on Arrangements, Local systems and Singularity Theory, Istanbul, Turkey, 2007.
- Grant of CIMPA School on Configuration Spaces and Applications, Lahore, Pakistan, February 12th-18th, 2007.
- Grant of CIMPA School on New Trends in Singularity Theory, Madrid, Spain, 2006.

- **Advisory Services in National and International Events**

- \*. Coordinator in the collaboration with Department of Mathematics, Government College University, Lahore and Indonesian Mathematical Society (IndoMS) Central Region for organizing an international conference on mathematics and mathematics education. Indonesia, December 05-06, 2024
- \*. Membership, Asian Council of Science Editors (ACSE), since November 19, 2024
- \*. Resource Person Erasmus + programme MOU between Government College University Lahore and UNIVERSATEA DE VEST “VASILE GOLDIS”. Romania, 2023
- \*. STEAM Resource Person from Government College University Lahore - Math Circle Activities. Pakistan, 2022
- \*. Member of Scientific Advisory Committee, 1st International Conference on Mathematics for a Sustainable Future (ICMSF), Two Days Conference, Department of Mathematics, The Women University Multan Multan, Pakistan 2022
- \*. Member of Scientific Advisory Committee, Academia International Conference Mathematics and Mathematics Education, New Trends in Mathematics and Mathematics Education(AICMME-2021), Siirt University, Turkey Siirt, Turkey 2021
- \*. Conference Co-ordinator for International Conference on Mathematics and its Applications, Government College University, Lahore, Pakistan. Lahore, Pakistan 2017-2018

## Honors and Awards

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- Invitation: Open House and Career Fair at Namal University Mianwali. May 24th & 25th, 2024.
- Diploma of Recognition for Research Publication, Excellence Awards Gala, “VasileGoldis” Western University of Arad, Romania December, 2022
- Member of Almuni ICTP Pakistan 2020 – Present

- Honorarium from Government College University, Lahore for Publications 2018 – 2019
- Nominated for the COMSTECH Best Research Paper Award 2017 by Government College University, Lahore
- Offered Postdoctoral Fellowship by Instituto de Ciências Matemáticas e de Computação da Universidade de São Paulo Brazil August, 2015
- Member of UNESCO-Third World Academy of Sciences, Trieste, Italy 2014 – Present
- Short listed for Best Young Research Scholar Award of HEC Nov, 2012
- Award of CONACYT - TWAS 2009 Postdoctoral Fellowship, TWAS – Italy and CONACYT - Mexico August, 2010
- HEC Approved PhD Supervisor, 2010 – Present
- Advisor, Chawala Mathematical Society, GC University Lahore 2008 – 2011
- Member, Old Ravian Union 2008 – Present
- Member, Punjab Mathematical Society 2012 – Present
- Awarded both Punjab Government and HEC Indigenous Scholarship for PhD Studies 2004 – 2008
- Second Position in M.Sc, University of the Punjab/affiliated institutes 2004
- First Position in B.Sc, Govt. Science College, Allama Iqbal Town, Lahore 2001

## **Editorial / Scholarly Activities**

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- **Reviewer** of an article for Scientific Annals of Computer Science “ Hyper Zagreb Spectral Radii of Splitting and Shadow Graphs. May 19, 2025
- **Reviewer** of an article for Journal of Nepal Mathematical Society “ On Codes Over Mixed Ring  $Z_2Z_4$  and its Related Parameters. May 6, 2025
- **Reviewer** for Detailed Evaluation of the HEC 10th Best Research Awards. March 18, 2025
- Registration as Reviewer with Songklanakarin Journal of Science and Technology February 19, 2025
- Reviewer of Punjab University Journal of Mathematics, for “Repdigits as Sum of Cubes of Three Consecutive Jacobsthal Numbers” January 16th, 2025
- Reviewer of Scientific Inquiry and Review, for “The finite fractional Hilbert transform” January 16th, 2025
- Reviewer of Punjab University Journal of Mathematics, for “Fibonacci numbers which are concatenations of three Fibonacci or Lucas numbers” January 6th, 2025
- Member of advisory board of **Scientific Inquiry and Review (SIR) Journal**.
- Reviewer of Symmetry “Advanced Information on Multiple-Granuation Approximation Spaces” July 1st, 2024
- Certificate of Excellence in Peer-Reviewing in recognition of an outstanding contribution to the quality of the Book. June 18, 2024

- Reviewer of Book Chapter “Geobetic Even Decomposition of Graphs”, “Research Updates in Mathematics and Computer Science” June 14th, 2024
- Reviewer of Symmetry “ Isometries to Analyze the Stability of Norm-Based Functional Equations in  $p$ -Uniformly Convex Spaces” June 7th, 2024
- Reviewer of International Journal of Differential Equations “Applications of the Conformable Laplace Variational Iteration Method to Fractional Differential Equations” April 24, 2024
- Reviewer of International Journal of Differential Equations “Applications of the Conformable Laplace Variational Iteration Method to Fractional Differential Equations” April 4, 2024
- Reviewer of Heliyon “ The Miller-Ross Poisson Distribution and its Applications to Certain Classes of Bi-univalent Functions Related to Horadam Polynomials” January 18, 2024.
- Reviewer of Journal of Applied Mathematics and Computing “ The first general Zagreb index of graphs and their line graphs” January 17, 2024.
- Reviewer of Qeios for “A Novel Computational Approach for Solving Fully Implicit Singular Systems of Ordinary Differential Equations” November 2, 2023.
- Reviewer for Turkish Journal of Inequalities (TJI) 21 - Oct - 2023.
- Reviewer for Heliyon, 18 - October - 2023.
- Reviewer for Heliyon, 04 - October - 2023.
- Reviewer for International Journal of Differential Equations, 02- October- 2023.
- Reviewer for American Mathematical Society (AMS) Mathematical Reviews.
- Reviewer for International Journal of Differential Equations, 25th September 2023.
- Reviewer for HEC Islamabad postdoctoral projects since 12th September 2023:
  - \* Project No. 184, Title: Characterizations of Complex Fuzzy Sets by Some Properties.
  - \* Project No. 192, Title: Cubic Fuzzy Competition Graphs with Applications.
  - \* Project No. 211, Title: Application of Fractional Ostrowski Type Integral Inequalities in Network Modeling and Green Optimization.
  - \* Project No. 29, Title: Revolutionizing Medical Diagnoses with Deep Learning in Neuroimaging.
  - \* Project No. 296, Title: Theoretical Progresses, Computational Methods, and Novel Applications for Shape-Preserving Hermite Subdivision Schemes.
  - \* Project No. 385, Title: Generalization of Fractional Calculus and Solutions of Fractional Differential Equations Involving Some Special Functions with Applications.
  - \* Project No. 434, Title: Exploring the Viability of Cosmic Aspects in Modified Theories of Gravity.
  - \* Project No. 74, Title: Numerical assessment of classical and fractional parabolic and hyperbolic type interface problems via Meshless and Haar wavelet collocation techniques.
  - \* Project No. 89, Title: Unlocking the Potential of Finite Element Analysis for Structural Analysis.
  - \* Project No. 97, Title: CFD and Machine Learning Algorithms to Diagnose Coronary Artery Disease.
- Reviewer for Journal of Mathematics, Hindawi, 2023.

- Guest Editor for Fractal and Fractional MDPI, Special Issue "Metric Spaces with Its Application to Fractional Differential Equations" [https://www.mdpi.com/journal/fractalfraction/special\\_issues/7JPS4V44XS](https://www.mdpi.com/journal/fractalfraction/special_issues/7JPS4V44XS)
- External Expert for the assessment of candidates in the discipline of Mathematics, 26th meeting of the Selection Board, University of Management and Technology, Lahore, 29th August 2023.
- External Examiner of PhD Thesis, UMT Lahore, 20th Jan. 2023.
- Reviewer for Turkish Journal of Inequalities 2023.
- Reviewer for Molecular Physics 2023.
- Reviewer for Best Researcher Award – SHEN 2023.
- Reviewer for Hindawi Journals 2023.
- External Examiner VIVA-VOCE of PhD Thesis of Ms. Sana Zafar of Lahore College for Women University, 19th June 2023.
- Reviewer for Journal of Natural Sciences and Mathematics, 2023.
- Reviewer for International Journal of Applied and Computational Mathematics (IACM), 2023.
- External Examiner of PhD Thesis, UMT Lahore, 20th Jan. 2023.
- Reviewer for International Journal of Applied and Computational Mathematics (IACM), 2023.
- Reviewer for Complexity-Hindawi, 2022.
- Reviewer for IEEE Access, 2022.
- External Expert of PhD research proposals in the discipline of Mathematics at UMT, Lahore, 41st Meeting of Board of Advanced Studies and Research, 15th December 2022.
- External Expert of 40th Meeting of Board of Advanced Studies and Research University of Management & Technology, Lahore, 18th August 2022.
- External Expert of 38th Meeting of Board of Advanced Studies and Research University of Management & Technology, Lahore, 20th April 2022.
- Reviewer for the Journal of Applied Mathematics-Hindawi, 2022.
- Reviewer for the Journal of Mathematics-Hindawi, 2022.
- External member of the Quality Enhancement Cell (QEC) team at the Department of Mathematics, University of the Punjab since 2022.
- External member of the admission committee of PhD/MPhil at the Department of Mathematics, University of the Punjab since 2022.
- External Examiner of M.Sc VIVA-VOCE in the University of the Punjab and its affiliated colleges, in the University of the Punjab Quaid e Azam Campus 27 June to 2th July 2022.
- External Examiner of M.Sc VIVA-VOCE in the University of the Punjab and its affiliated colleges in Rawalpindi 27 Dec 2021 to 4th Jan. 2022.

- External Examiner of M.Sc VIVA-VOCE in the University of the Punjab and its affiliated colleges, in Gujranwala Campus 6th - 11th Dec. 2021.
- External Examiner of M.Sc VIVA-VOCE in the University of the Punjab and its affiliated colleges in Jhang Post graduate College 23rd Nov to 27th Nov 2021.
- External Examiner of M.Sc VIVA-VOCE in the University of the Punjab and its affiliated colleges in Rawalpindi 04 Jan to 16th Jan 2021.
- Managing Editor, Journal of Prime Research (ASSMS) GC University Lahore, 2020-present.
- Editor, Journal of Prime Research (ASSMS) GC University Lahore, 2019-2020.
- External Examiner of M.Sc VIVA-VOCE in the University of the Punjab and its affiliated colleges, in Gujranwala Campus 07 Dec to 12th Dec 2020.
- External Examiner of M.Sc VIVA-VOCE in the University of the Punjab and its affiliated colleges, in the University of the Punjab Quaid e Azam Campus 23th - 28th Nov 2020.
- Reviewed 10 Projects submitted at HEC Islamabad under NRPU Program 22th April 2020.
- External Examiner of M.Sc VIVA-VOCE in the University of the Punjab and its affiliated colleges in Rawalpindi 2020.
- External examiner of PhD Thesis of Mr. Muhammad Yaseen, University of Sargodha, April 2019.
- External Examiner of M.Sc VIVA-VOCE in the University of the Punjab and its affiliated colleges, both in Lahore Campus and Gujranwala Campus, 2019.
- Reviewer for the IEEE Access, 2019.
- Reviewer for the Journal of Physics A, 2019.
- Reviewer of the book submitted for grant in HEC, Islamabad 2017.
- Reviewer nominated by HEC, for the Project No. 4562 titled: Classification of Rossby and Rossby-Haurwitz nonlinear planetary wave triads in the atmosphere using algebraic/arithmetic geometry, submitted in HEC, Islamabad for research grant 2016.
- Managing Editor, Journal of Prime Research (ASSMS) GC University Lahore, 2014-2019.
- External Examiner of B.Sc (hons)/M.Sc Mathematics (annual), University of the Punjab, since 2013.

## Service Activities

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- Member of Committee for the 19th Convocation of GC University Lahore, 2021.
- Member of the committee to prepare/conduct the test for GRE (general and subject) for the admission in M.Phil/Ph.D. of the Department of Mathematics, University of the Punjab, Lahore, since 22th Nov. 2019.
- Member of Admission Committee to evaluate the applications of international students for undergraduate and postgraduate programmes 2019.
- Member of Committee for the formation and conduct of summer semester for MS/MPhil, GC University Lahore 2018.
- Elected Member of Academic Council GCU Lahore against the post of associate professor 2017-2020.

- M.Phil Program Coordinator, Department of Mathematics GC University Lahore, since 2018.
- President of Wrestling, GCU Lahore, 2016.
- Member, Selection Committee (Wrestling) for F.A/F.Sc admissions, 2016.
- Member of Admission Committee F.A F.Sc, 2016.
- External Examiner of MPhil Thesis UOG / UOE / UET, 2016.
- Member of Admission Committee ASSMS, GCU Lahore 2015.
- Member of Purchase Committee Abdus Salam School of Mathematical Sciences 2014-16.
- Permanent Member, MSc Selection Committee, Department of Mathematics, GCU Lahore, 2014-2021.
- Permanent Member, MPhil Selection Committee, Department of Mathematics, GCU Lahore, since 2012.
- Member, Ph.D Selection Interview Committee, Department of Mathematics, GCU Lahore, since 2012.
- Member, Selection committee (Weightlifting) for F.A/F.Sc admissions, 2012-2019.
- President of Weightlifting, GCU Lahore, 2012-2019.
- Departmental Controller, Department of Mathematics, GCU Lahore, Since 2012.
- President, Rowing and Rovering Club, GCU Lahore, 2010-2011.
- Member, Selection committee (Basketball) to conduct trails for F.A/F.Sc admissions, 2010.
- Member, MPhil Selection Committee, Department of Mathematics, GCU Lahore since 2009.
- Inter-departmental Sports coordinator, Department of Mathematics, GCU Lahore, 2008-2011.
- In-charge Seminars, Department of Mathematics, GCU Lahore, 2008-2011.
- Advisor, Chawala Mathematical Society, GCU Lahore, 2008-2011.