Dr. Nasreen Kausar
(PhD Mathematics)

As an organized and highly creative individual, I love the challenges of working within a dynamic and fast paced working environment.

Personal Profile:

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Academic educational background

Degree	Year of passing	Subjects	Marks %	Board / University
PhD	Jun 2015	Mathematics	75.1%	QAU, Islamabad
MPhil	Sep 2010	Mathematics	78%	QAU, Islamabad
M.Sc.	July 2008	Mathematics	76.63%	PU, Lahore
B.Sc.	Aug 2006	Math A and B, Economics	60.2%	PU Board, Lahore
HSSC	2003	Math, Arabic, Education	56.6%	Faisalabad Board
SSC	2001	Arts	69%	Faisalabad Board

Computer skills:

➢ Scientific Workplace, Word, Excel, Power Point, Fortran Languages, Internet use

and browsing etc.

Language proficiency:

> English, Turkish, Urdu, Punjabi

Academic & Sports Awards:

Academic Awards:

> Indigenous PhD Scholarship of HEC, Islamabad, Pakistan

> Interim Placement of Fresh PhDs Program of HEC, Islamabad, Pakistan

> Startup Research Grant Program of HEC, Islamabad, Pakistan (Rs. 235750/)

Sports Awards:

> Organizer in the 3rd Annual Sports Gala 2017, presented by University of Sargodha, Lyallpur Campus Faisalabad

> Organizer in the 4th Annual Sports Gala 2018, presented by University of Sargodha, Lyallpur Campus Faisalabad

Experience:

> **Assistant Professor,** University of Sargodha, Sargodha Pakistan (24/8/2015 --- 23/8/2016) under IPFP.

> **Assistant Professor,** University of Sargodha, Lyallpur Campus Faisalabad, Pakistan (27/8/2016 --- 20/1/ 2019).

> **Assistant Professor (HOD),** University of Sargodha, Lyallpur Campus Faisalabad, Pakistan (20/4/2018 --- 20/1/ 2019).

- ➢ **Assistant Professor**, University of Agriculture Faisalabad, Faisalabad Pakistan (1/09/2018 --- 8/15/2020).

- ➢ **Assistant Professor**, University of Agriculture Faisalabad, Pars Campus, Faisalabad Pakistan (1/09/2019 --- 08/15/2020).

- ➢ **Assistant Professor**, Government College University Faisalabad, Faisalabad Pakistan (1/09/2019 --- 02/15/2020).

- ➢ **Lecturer (CTIs)**, Govt. College for women's, Samna-abad Faisalabad, (02/02/2021 --- 31/05/2021).

- ➢ **Assisociate Professor**, Yildiz Technical University Istanbul, Turkey (1/09/2022 ---).

Projects:

Project research title:
- ➢ Study on the characterization of non-associative and non-commutative algebraic structures in the concept of fuzzy sets (accepted in SRGP HEC, ISB, Pakistan, Rs. 235750/.

Research Projects (BS 4-years):

- ➢ Study on ring theory   (*Sumera Munir*   2016)

- ➢ Some study on polynomial rings (*Nayab Zafar*   2016)

Membership

- ➢ Pakistan Mathematical Society

- ➢ The Institute of Research Engineers and Doctors

M.Phil and PhD Research Title:

M.Phil research title:

➢ On generalization of semigroups and rings

PhD research title:

➢ Fuzzy concepts in non-associative and non-commutative Algebraic structures

Research interest:

➢ Commutative and non-commutative Algebraic structures, Fuzzy (Intuitionistic) semigroup theory, Fuzzy (Intuitionistic) group theory, Fuzzy (Intuitionistic) ring theory, Fuzzy (Intuitionistic) topology, Fuzzy (Intuitionistic) lattice theory, Differential Equations, Numerical Analysis

Conferences

➢ "11th Internation Pure Mathematics Conference 2010", organized by Preston University, Quaid-i-Azam University and Pakistan Mathematical Society, Islamabad, Pakistan, August (6-8) 2010.

➢ "17th Internation Pure Mathematics Conference 2016", organized by Preston University, Islamia University Bahawalpur and Pakistan Mathematical Society, Islamabad, Pakistan, August (5-7) 2016.

PUBLICATIONS

1) T. Shah, **N. Kausar** and I. Rehman, **Intuitionistic fuzzy normal subrings over a non-associative ring**, An. St. Univ. Ovidius Constanta, Vol. 20(2012) 369-386.

2) T. Shah and **N. Kausar**, **Characterizations of non-associative ordered semigroups by their fuzzy bi-ideals**, Theoretical Computer Science, Vol. 529(2014) 96-110.

3) **N. Kausar** and M. Waqar, **Characterizations of non-associative rings by their intuitionistic fuzzy bi-ideals**, European Journal of Pure and Applied Mathematics, Vol. 12, 1(2019) 226-250.

4) **N. Kausar**, **Characterizations of non-associative ordered semigroups by the properties of their fuzzy ideals with thresholds**, *Prikladnaya Diskretnaya Matematika, Vol. 43(2019) 37-59.*

5) **N. Kausar**, **Direct product of finite intuitionistic anti-fuzzy normal subrings over non-associative rings**, *European Journal of Pure and Applied Mathematics, Vol. 12(2019) 622-648.*

6) **N. Kausar, B. Islam, M. Javaid, S, Amjad and U. Ijaz, Characterizations of non-associative rings by the properties of their fuzzy ideals**, *Journal of Taibah University for Science, Vol. 13(2019) 820-833.*

7) **N. Kausar, B. Islam, S. Amjad and M. Waqar, Intuitionistics fuzzy ideals with thresholds in LA-rings,** *European Journal of Pure and Applied Mathematics, Vol. 12, 3(2019) 906-943.*

8) **N. Kausar and M. Waqar, Direct product of finite fuzzy normal subrings over non-associative rings**, *International Journal of Analysis and Applications, Vol. 17, 5(2019) 752-770.*

9) **N. Kausar, M. Alesemi and Salahuddin**, **Anti-fuzzy interior ideals on ordered AG-groupoids**, *European Journal of Pure and Applied Mathematics, Vol. 13, 1(2020) 113-129.*

10) **N. Kausar, M. Alesemi and Salahuddin, Fuzzy ideals on ordered AG-groupoids**, *International Journal of Analysis and Applications, Vol. 18(2020) 277-303.*

11) **N. Kausar, M. Alesemi, Salahuddin, and M. Munir, Characterizations of non-associative ordered semigroups by their intuitionistic fuzzy bi-ideals**, *Discontinuity, Nonlinearity, and* Complexity, Vol. 9(2020) 257-275.*

12) **N. Kausar, M. Alesemi, Salahuddin, and M. Munir, A study on ordered AG-groupoid by their fuzzy interior ideals**, *International Journal of Advanced and Applied Sciences,* Vol. 7(2020) 75-82.*

13) **N. Kausar, M. Alesemi, Salahuddin, and M. Munir, Study on LA-rings by their intuitionistic fuzzy ideals**, *Mathematica Montisnigri,* Vol. 47(2020) 22-42.*

14) *M. Munir, N. Kausar, Salahuddin and Tehreem,* **On the prime fuzzy m-bi ideals in semigroups,** *J. of Math. and Computer Sci.* Vol. 21, 4(2020) 357-365.*

15) *R. Anjum, S. Ullah, Y. M. Chu, M. Munir,* **N. Kausar** *and S. Kadry,* **Characterization of ordered h-regular semirings by ordered h-ideals**, *Aim Mathematics,* Vol. 5(2020) 5768-5790.*

16) **N. Kausar, M. Munir, B. Islam M. Alesemi, Salahuddin and M. Gulzar, Fuzzy bi-ideal in LA-rings**, *Italian Journal of Pure and Applied Mathematics 44(2020) 745-763.*

17) **N. Kausar, M. Munir, B. Islam M. Alesemi, Salahuddin and M. Gulzar, Ideal in LA-rings**, *Italian Journal of Pure and Applied Mathematics. 44(2020) 731-744.*

18) **N. Kausar, M. Munir, M. Gulzar, M. Alesemi and Salahuddin, Ordered LA-groups and ideals in ordered LA-semigroups**, *Italian Journal of Pure and Applied Mathematics. 44(2020) 723-730.*

19) M. Munir, **N. Kausar**, R. Anjum, A. Ali, and R. Hussain, **A characterization of semigroups through their fuzzy generalized m-bi-ideals**, Korean J. Math. 28(2020) 623-638.

20) **N. Kausar**, M. Munir, M. Gulzar, G. Mulat Addis and M. Gulistan**, Study on left almost-rings by anti-fuzzy bi-ideals**, Int. J. Nonlinear Anal. Appl., 11(2020) 483-498.

21) **N. Kausar** and M. Munir, **A Polynomial linear regression approach to estimate parameters in the novel double diabetes model**, International Journal of Analysis and Applications 18(2020) 939-956.

22) M. Gulzar, D. Alghazzawi, M. Haris and **N. Kausar**, **A certain class of t-intuitionistic fuzzy subgroups**, IEEE Access, 8(2020) 163260-163268.

23) M. Gulzar, D. Alghazzawi, M. Haris and **N. Kausar**, **A Novel applications of complex intuitionistic fuzzy sets in group theory**, IEEE Access, 8(2020) 196075-196085.

24) M. Munir, **N. Kausar**, Salahuddin, A. Shafiq and M. Habib, **Characterizing semigroups through the properties of their fuzzy m-bi ideals**, J. of Math. And Computer Sci., 23 (2020) 170–180.

25) M. Munir, **N. Kausar**, G. Addis, Salahuddin and R. Anjun, **Introducing fuzzy almost m-ideals, fuzzy generalized almost m-ideals and related objects in semigroups**, Malaysian Journal of Mathematical Sciences, 14(2020) 351-372.

26) **N. Kausar**, Meshari Alesemi, Salahuddin and Mohammad Munir, **Anti-fuzzy bi-ideals on ordered AG-groupoids**, J. Indones. Math. Soc., 26(2020) 299-318.

27) G. Mulat Addis, N. Kausar and M. Munir, **Fuzzy homomorphism theorems on rings**, Journal of Discrete Mathematical Sciences and Cryptography, Vol. 23(2020) 1-20.

28) D. Alghazzawi, W. H. Hanoon, M. Gulzar, G. Abbas and **N. Kausar**, **Certain properties of ω-Q-fuzzy subrings**, Indonesian Journal of Electrical Engineering and Computer Science, Vol. 21, 2(2020) 822-828.

29) M. Munir, **N. Kausar**, B. Davvaz, M. Gulistan and M. Gulzar, **Studying semigroups using the properties of their prime m-ideals**, Bulletin of Irkutsk State University, Series, Mathematics, Vol. 34(2020) 109-125.

30) **N. Kausar**, M. Munir, M. Gulzar and G. M. Addis, **Characterizing the ordered AG-groupoids through the properties of their different classes of ideals**, bulletin of the karaganda university. Mathematics series, Vol. 100(2020) 101-112.

31) **N. Kausar**, M. Munir and K. Anitha, **Left regular ordered AG-groupoids**, Advanced Mathematical Models & Applications, Vol. 5(2020) 307-312.

32) G. Mulat Addis, **N. Kausar**, M. Munir and Yu-ming Chu, **The commutator of fuzzy congruences in universal algebras**, International Journal of Computational Intelligence Systems, Vol. 23, 7(2021) 1-20.

33) Z. Khan, M. Gulistan, **N. Kausar** and C. Park, **Neutrosophic Rayleigh model with some basic characteristics and engineering applications**, IEEE Access, 20(2021) 163260-163268.

34) S. Nawaz, M. Gulistan, **N. Kausar**, Salahuddin and M. Munir, **On the left and right Almost hyperideals of LA-semihypergroups**, International Journal of Fuzzy Logic and Intelligent Systems, Vol. 21(2021) 86-92.

35) M. Munir, **N. Kausar**, K. Anitha, G. Mani and Tehreem, **Exploring the Algebraic and topological properties of semigroups through their prime m-bi-ideal**, Kragujevac Journal of Mathematics, Vol. 48(2021) 407-421.

36) M. Munir, U. Saleem and **N. Kausar**, **Sensitivity analysis of solute kinetics for a four compartmental model in hemodialysis patients**, Kuwait Journal of Science, Vol. 48(2021) 1-10.

37) M. Munir, **N. Kausar**, Salahuddin, R. Anjum, X. Qingbing and W. Ahmad, **Hypergroupoids as Tools of Studying Blood Groups Genetics**, Int. J. of Fuzzy Logic and Intelligent Systems, Vol. 21(2021) 135-144.

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40) **N. Kausar**, M. Munir, Salahuddin, Z.Baharudin and B. Islam, "**Direct product of finite anti-fuzzy normal subrings over non-associative rings**", J. of Math. And Computer Sci. 22(2020) 399-411.

41) K. Kalaiarasi1, R. Soundaria, **N. Kausar**, P. Agarwal, H. Aydi and H. Alsamir, **Optimization of the Average Monthly Cost of an EOQ inventory model for deteriorating items in Machine Learning using Python**, Journal of Thermal Sciences.

42) A. Elmoasry, M. Shams, N. Yaqoob, **N. Kausar** and Y.U. Gaba, **Numerical scheme for finding roots of interval-valued fuzzy non-linear equations with application in optimization**, Journal of Function Spaces.

43) R. Anjum, F. Sarfraz, **N. Kausar**, Y. U. Gaba, H. Aydi, M. Munir and Salahuddin, **Some Studies in Hemirings by the Falling Fuzzy k-Ideals**, Journal of Function Spaces Vol. 48, 3(2021), 1-10.

44) N. Rafiq, N. Yaqoob, **N. Kausar**, M. Shams, N. Ahmad , U. Gaba, and N. Khan, **Computer-Based Fuzzy Numerical Method for Solving Engineering and Real-World Applications**, Mathematical Problems in Engineering, Volume 2021, Article ID 6916282, 13 pages.

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46) F. Rasheed, S. Kousar, J. Shabbir, **N. Kausar**, D. Pamucar and U. Gaba, **Use of Intuitionistic Fuzzy Numbers in Survey Sampling Analysis with Application in Electronic Data Interchange**, Complexity, Volume 2021, Article ID 9989477, 12 pages.

47) K. Kalaiarasi, V. Manimozhi, **N. Kausar**, D. Pamucar, S. Kousar and U. Gaba, **Fuzzy Product KM-Subalgebras and Some Related Properties,** Complexity, Volume 2021, Article ID 3991871, 8 pages.

48) G. Mani, A. Joseph, **N. Kausar**, M. Munir and Salahuddin, **Orthogonal F-Contraction Mapping on O-Complete Metric Space with Applications,** I. J. of Fuzzy Logic and Intelligent Systems, 21(2021) 243-250.

49) M. Shams, N. Rafiq, **N. Kausar**, P. Agarwal, C. Park and N. Mir**, On iterative techniques for estimating all roots of nonlinear equation and its system with application in differential equation,** Advances in Difference Equations, (2021) 2021:480.

50) M. Shams, N. Rafiq, **N. Kausar**, P. Agarwal, C. Park and S Momani, **Efficient iterative methods for finding simultaneously all the multiple roots of polynomial equation,** Advances in Difference Equations.

51) M. Shams, N. Rafiq, **N. Kausar**, S. F. Ahmed, N. Ahmad Mir, and S. C. Saha, **Inverse Family of Numerical Methods for Approximating All Simple and Roots with Multiplicity of Nonlinear Polynomial Equations with Engineering Applications,** Mathematical Problems in Engineering, Volume 2021, Article ID 3124615.

52) S. Khan, M. Gulistan, **N. Kausar**, S. Kousar, D. Pamucar, and G. M. Addis, **Analysis of Cryptocurrency Market by Using q-Rung Orthopair Fuzzy Hypersoft Set Algorithm Based on Aggregation Operators,** Complexity Volume 2022, Article ID 7257449, 16 pages.

53) K. Kalaichelvan, **N. Kausar**, S. Kousar, Yeliz Karaca, D. Pamucar, and M. Abdullah Salman**, Economic Order Quantity Model-Based Optimized Fuzzy Nonlinear Dynamic Mathematical Schemes,** Computational Intelligence and Neuroscience Volume 2022, Article ID 3881265, 9 pages.

54) K. Kalaiarasi, P. Sudha, **N. Kausar**, Sajida Kousar, D. Pamucar, and Nasr Al Din, **The Characterization of Substructures of c-Anti Fuzzy Subgroups with Application in Genetics,** Discrete Dynamics in Nature and Society Volume 2022, Article ID 1252885, 8 pages.

55) Y. Liu, M. Munir, **N. Kausar**, Q. Xu, **On Jacobson radical of ternary $\Gamma-$ semirings,** Southeast Asian Bulletin of Mathematics, Vol. 45(2022) 849-859.

56) Q. Xu, Y. Liu, M. Munir, **N. Kausar**, **Reduced rings and modules arising from Morita contexts,** International Journal of Algebra, Vol. 16 (2022) 97-108.

57) M. Shams, N. Rafiq, **N. Kausar**, N. Ahmad Mir and A. Alalyani, **Computer Oriented Numerical Scheme for Solving Engineering Problems,** Computer Systems Science & Engineering, DOI:10.32604/csse.2022.022269.

58) S. Kousar, A. Zafar, **N. Kausar**, D. Pamucar, and Kattel **Fruit Production Planning in Semiarid Zones: A Novel Triangular Intuitionistic Fuzzy Linear Programming Approach** Mathematical Problems in Engineering, Volume 2022, Article ID 3705244, 13 pages.

59) *S. Kousar, U. Shafqat,* **N. Kausar***, D. Pamucar and Y. U. Gaba,* **Energy Source Allocation Decision-Making in Textile Industry: A Novel Symmetric and Asymmetric Spherical Fuzzy Linear Optimization Approach** *Mathematical Problems in Engineering, Volume 2022, Article ID 2659826, 15 pages.*

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61) *S. Kousar, F. Aslam,* **N. Kausar***, D. Pamuca and G. M. Addis,* **Fault Diagnosis in Regenerative Braking System of Hybrid Electric Vehicles by Using Semigroup of Finite-State Deterministic Fully Intuitionistic Fuzzy Automata,** *Computational Intelligence and Neuroscience Volume 2022, Article ID 3684727, 14 pages.*

62) *A. Khalid,* **N. Kausar***, M. Munir, M. Gulistan, M. Al-Shamiri and T. Lamoudan* **Topological Indices of Families of Bistar and Corona Product of Graphs,** *Journal of Mathematics Volume 2022, Article ID 3567824, 8 pages.*

63) *S. Kousar, T. Saleem,* **N. Kausar***. D. Pamuca, and G. M. Addis,* **Homomorphisms of Lattice-Valued Intuitionistic Fuzzy Subgroup Type-3，** *Computational Intelligence and Neuroscience Volume 2022, Article ID 6847138, 11 pages.*

64) *T. Naseem, U. Fatima, M. Munir, A. Shahzad,* **N. Kausar***, K. S, Nisar, C. A. Saleel, and M. Abbas,* **Joule heating and viscous dissipation effects in hydromagnetized boundary layer flow with variable temperature,** *Case Studies in Thermal Engineering, 35 (2022), 102083.*

65) *K. Kalaiarasi, L. Mahalakshmi,* **N. Kausar***, S. Kousar and P. Kattel,* **Perfect Fuzzy Soft Tripartite Graphs and Their Complements***, Discrete Dynamics in Nature and Society Volume 2022, Article ID 1108887, 10 pages.*

66) *S. Syed Ahmad, S. M. Yung,* **N. Kausar***, Y. Karaca, D. Pamucar and Nasr Al Din Ide,* **Nonlinear Integrated Fuzzy Modeling to Predict Dynamic Occupant Environment Comfort for Optimized Sustainability***, Scientific Programming, Volume 2022, Article ID 4208945, 13 pages.*

67) *A. Riaz, S. Kousar,* **N. Kausar***, D. Pamucar, and G. M. Addis,* **An Analysis of Algebraic Codes over Lattice Valued Intuitionistic Fuzzy Type-3 R-Submodules***, Computational Intelligence and Neuroscience Volume 2022, Article ID 8148284, 13 pages.*

68) **N. Kausar***, M. Munir, P. Agarwal, and K. Kalaiarasi,* **The Characterization of Fuzzy and Anti Fuzzy Ideals in AG-groupoid***, Thai Journal of Mathematics Volume 20(2022) Pages 653–667.*

69) *R. Anjum, A. R. Lodhi, M. Munir and* **N. Kausar***,* **Soft intersection and soft union k-ideals of hemirings and their applications,** *Korean J. Math. Vol. 30(2022) 263-281.*

70) *M. Shams, N. Rafiqe,* **N. Kausar***, P. Agarwal, N. A. Mir and Yong-Min Li,* **On Highly Efficient Simultaneous Schemes for Finding all Polynomial Roots***, DOI: 10.1142/S0218348X22401983.*

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72) K. Kalaiarasi, P. Sudha, **N. Kausar**, S. Kousar, D. Pamucar and Nasr. Ide, **The Characterization of Substructures of c-Anti Fuzzy Subgroups with Application in Genetics**, Discrete Dynamics in Nature and Society Volume 2022, Article ID 1252885, 8 pages.

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