

# DR. NOREEN AZHAR

## PROFESSIONAL SUMMARY

Discerning Assistant Professor with 22 years of experience specializing in Applied Mathematics. Continually self-developing to offer innovative and inspiring curriculum implementation and supervision for high quality academic results.

## WORK HISTORY

Working as an **Assistant professor, 10/2004 - Current**

**Sardar Bahadur Khan Women's University Quetta, Quetta, Pakistan**

**Teaching Experience:** Engaged in instruction at both undergraduate and graduate levels, fostering academic excellence and critical thinking.

**Educational Qualifications:** Ph.D. and M. Phil awarded by the University of Baluchistan, Quetta.

**Research Interests:** Focused on fractional integral transforms and wind energy analysis, with a keen interest in their interdisciplinary applications.

## EDUCATION

**Bachelor of Science, Mathematics, 1999**

**University of Punjab** - Rawalpindi, Punjab

**Master of Science, Mathematics, 2003**

**University of Balochistan** - Quetta, Balochistan - 1st Position

**MPhil, Mathematics, 03/2014**

**University of Balochistan** - Quetta, Pakistan

**Doctor of Philosophy, Mathematics, 2025**

**University of Balochistan** - Quetta, Balochistan - 1st Division

## LANGUAGES

English

Upper intermediate  
Urdu



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Quetta, Quetta, Pakistan



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## WEBSITES, PORTFOLIOS, PROFILES

- <https://www.researchgate.net/Noreen-Azhar/network>
- <https://www.google.com/cse/intl/en/cse?cx=0056204103381700000&q=Noreen+Azhar+network>

## SKILLS

- Advanced subject knowledge
- Assessment and evaluation techniques
- Inspirational mentoring
- Scholarly publishing
- Peer-Review process knowledge
- Educational innovation
- Student motivation
- Faculty collaboration
- Applied research
- Interdisciplinary collaboration
- Curriculum Development
- Course planning
- Innovative teaching techniques
- Teaching and supervision
- Academic leadership
- Curriculum reviews

## **CERTIFICATES, ACCOMPLISHMENTS, AND HONOURS**

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### **CONFERENCES/ WORKSHOPS ATTENDED:**

- 3-days Workshop on Ensuring Training Effectiveness by learning innovation Division (HEC), 28<sup>th</sup> May to 30<sup>th</sup> May 2012.
- Four days Workshop on Research methodology & skills, from 11-14 July 2012.
- Staff Development Course under the scheme National Academy of Higher Education, Aug,15 – Sep.15,2005
- Participated as a Judge in Balochistan Provisional Science Fair 2016 by Intel.
- The Seminar on Applied Mathematics, at University of Balochistan, 16th November 2017.
- One day workshop on Quality Learning Innovation organized by directorate of Quality Assurance and Accreditation in collaboration with International Islamic University, Islamabad, 30 April 2018.
- Webinar on Navigating the Pathways of publishing in High quality journals by using Scopus organized by Elsevier on 15<sup>th</sup> November 2022
- Webinar on Enabling a perfect research ecosystem with Science Direct on 28<sup>th</sup> Nov 2022
- Webinar on Navigating the pathways of publishing in High-quality journals by Using Science Direct on Oct 20, 2023
- Webinar on Understanding Research Matrices and Elsevier's Science Direct on 17<sup>th</sup> September 2024.
- Attended "Women Empowerment & Mentoring Program (WEMP)" held in SBK Women's university Quetta 20th dec- 20th April,2025.
- Attended Three days workshop on "Ph.D Successful Supervision (GEP, 2023)" in SBK women's University, Quetta, 18th -20th June 2025.

### **Administrative Experience**

#### **Head of The Department Mathematics (Sep 2022- till date)**

### **SERVICE ACTIVITIES**

- M.Phil Coordinator (2013-2017)
- Departmental Focal person of IT
- Focal person of ORIC
- Departmental Admisson Committee Member
- Departmental Examination Committee Member
- Board of Studies Member
- Departmental Research Committee Member
- Supervised BS level Project
- Supervised M. Phil. level Project

## PUBLICATIONS

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1. N. Azhar, F. Kauser, S. Kalsoom & Y. Akhtar. (2017). Resolution of Wind Energy and Power in Coastline of Balochistan, Pakistan, Journal of Computational and Theoretical Nanoscience Vol. 14, 1–6, 2017
2. N. Azhar, S. Iqbal, F. Saleem, F. Iqbal & A. Rehman, Wind Data Analysis of Coastal Region of Balochistan (Pakistan) by Weibull and Rayleigh Method, Indian Journal of Science and Technology, Vol 12(26), 1-8, 2019
3. A. Ahmed, Abdul Wahid, R. Manzoor, N. Nadeem, N. Ullah, and S. Kalsoom, Flow characteristics and Fluid Forces Reduction of Flow Past Two Tandem Cylinders in Presence of Attached Splitter Plate, Mathematical Problems in Engineering Volume 2021, Article ID 4305731, 16 pages <https://doi.org/10.1155/2021/4305731>
4. N. Azhar & S. Iqbal. Solution of Fuzzy Fractional order differential equation by fractional Mellin's transform method, Jan 2022, Journal of computational and Applied Mathematics.
5. N. Azhar, S Parvaiz & A. Saleem. Statistical Analysis of wind potential in Gawadar, Balochistan. SBK Journal of Basic Sciences and Innovative Research Vol 2 2022.
6. R. Manzoor, S. Ul. Islam, N. Nadeem, S. Perveen, T. Naeem, Numerical Investigations for Flow Past Two Square Rods in Staggered Arrangement through Lattice Boltzmann Method: Annulus Math Phys 4(1): 016-027. DOI: <https://dx.doi.org/10.17352/amp.000021>
7. N. Azhar & S. Iqbal. A Method for Solving Initial and Boundary Value Fuzzy differential equations by Mellin Transform. *Preprint in Research Square*, <http://doi.org/10.21203/rs.3.rs-301071/v1>
8. R. Manzoor, S. Mushtaq N. Azhar, S. Perveen, S. Kalsoom, A. Naeem & R. N. Akbar, Numerical investigation of flow past a triangular cylinder at various Reynolds numbers: Physics of Fluid, Vol. 13(12) 1–10 (2023) DOI : 10.1177/16878140211067420
9. R. Manzoor, R. Habib, N. Nadeem, and S. Kalsoom, "Numerical Analysis of Flow Past Over a Triangular Rod through Passive Control Method," *Phys. Fluids*, vol. 36, 034103, 2024.
10. E. U. Saleem, R. Manzoor, N. Azhar, E. H. Saleem, and F. Behlil, "Design of a High Gain Dual Band Patch Antenna with T Slot Ground Structure for Millimeter Wave Communication Applications," *Int. J. Innov. Sci. Technol.*, 2024.
11. Azhar, N., Anum, L., Manzoor, R., Akhter, Y., & Khan, O. (2024). Assessment of wind power and energy at the coast of Balochistan, Pakistan. *Remittances Review*, 9(54), 501–516.
12. A. Ahmad, R. Manzoor, I. Ali, S. Kalsoom, N. Azhar, N. Jamil, I. Javed and F. Behlil. (2024). "Numerical Study Of Flow Behind The Tods In Side-By-Side Arrangement Through Lattice Boltzmann Method," *Kurdish Studies*, Vol. 12, No: 5, 897-915
13. Statistical Analysis of Wind Potential in Three Coastal Regions of Baluchistan, *Front. Mech. Eng.*, Accepted
14. Azhar, N., Manzoor, R., & Kalsoom, S. (2025) Application of fractional integral transform in fuzzy differential equations. **(book) In Fractional Calculus - From Theory to Applications**. Intech Open.

15. N. Azhar & S. Iqbal. (2025). A Note on Fractional Mellin Transform: Concepts and Solutions. *Axioms* Accepted