Dr. Imtiaz Ahmad

Assistant Professor, Department of Mathematics,
Mirpur University of Science and Technology (MUST), Mirpur AJ&K.
PhD in Mathematics.

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Resume Summary:

Dedicated and accomplished Assistant Professor with a Ph.D. in Mathematics, offering over two decades of experience in academia and management. Currently serving as Assistant Professor at Mirpur University of Science & Technology (MUST) since February 2017. Before joining this institution, the career commenced at the University of Azad Jammu and Kashmir (UAJ&K) in 2001. Adept at teaching a diverse range of courses at both graduate and undergraduate levels, including Fluid Mechanics, Dynamical Systems, and Numerical Analysis. Recognized for leadership roles, including Director Quality Enhancement Cell at MUST, where I received multiple awards for outstanding contributions, including the launch of Online Education. Extensive involvement in research, memberships, and mentoring graduate and undergraduate students, demonstrating a commitment to academic excellence.

Resume Objective:

Enthusiastic and accomplished Assistant Professor seeking a challenging position in the field of Mathematics and academic administration. With a PhD and a rich academic background, I bring over 20 years of teaching experience, including appointments at Mirpur University of Science & Technology (MUST) and the University of Azad Jammu & Kashmir (UAJ&K). Proven expertise in delivering courses at both graduate and undergraduate levels, with a focus on areas such as Fluid Mechanics, Dynamical Systems, and Numerical Analysis. Dedicated to fostering a conducive learning environment and contributing to the academic growth of students. Eager to bring my passion for research, leadership skills, and commitment to quality education to a dynamic educational institution.

Experience:

Assistant Professor, Department of Mathematics, MUST, Mirpur

February 01, 2017 – to date

Director Quality Enhancement Cell, MUST, Mirpur

April 15, 2017 - August 19, 2020

Assistant Professor, Department of Mathematics, University of Azad Jammu & Kashmir (UAJ&K), Muzaffarabad

April 4, 2008 - January 31, 2017

Lecturer, Department of Mathematics, UAJ&K, Muzaffarabad

August 08, 2003 - April 03, 2008

Lecturer (Contract), Department of Mathematics, UAJ&K, Muzaffarabad

September 10, 2001 - August 07, 2003

Honors and Awards:

- Offered Scholarship on Open Merit for PhD Studies by HEC under Faculty Development Program (FDP) in 2008.
- HEC approved Supervisor since 2017.
- Certificate of appreciation from the Vice Chancellor UAJ&K to acknowledge research pursuits in 2015.
- Award of appreciation from the Vice Chancellor MUST to acknowledge excellent contributions as Director QEC in 2019.
- Award of appreciation from the President AJ&K/Chancellor MUST for extraordinary contributions in launching Online Education in MUST as Director QEC, 2020.
- Letter of appreciation from the Vice Chancellor MUST for the excellent overall performance as Director QEC, 2020.
- *Technical Program Committee Member in 3rd International Conference on Acoustics, Fluid Mechanics and Engineering (AFME 2024), Hangzhou, China.*

Memberships:

- Member, Syndicate, UAJ&K, Muzaffarabad (2006-08).
- Member, Board of Advanced Studies and Research, UAJ&K, Muzaffarabad (2006-08).

- Member, Pakistan Mathematical Society (2008-09).
- Non-voting member of all statutory bodies at MUST, Mirpur (2017-2020).
- Member of all Scholarship Award Committees in MUST, Mirpur (2017-2020).
- Founding Member of Executive Committee, Pakistan Network of Quality Assurance in Higher Education (PNQAHE) (2018-22).

Graduate Students:

MPhil Students:

- Usama Munir (2024)
- Farzeen Ashfaq (2024)
- Mah Noor Nasir (2024)
- Umia Aimen (2023)
- Shahid Hameed (2023)
- Huma Zulfiqar (2023)
- Mahnoor Javed (2022)
- Yusra Rani (2022)
- Mamoona Tariq (2022)
- Faqraz Arif (2021)
- Sehrish Fareed (2021)
- Khuram Ayub (2021)
- Tamoor Munawwar (2020)
- Mahreen Shazadi (2019)
- Uzma Tufail (2018)
- Naeem Madassar (2018)
- Khwaja Awais ul Haq (2016)
- Adeel Ashraf (2016)

MSc and BS Students (Selected):

- Memoona Kousar, Moeez Zahoor, Mubashra Ilyas (BS 2020-24)
- Mubashar Khan, Muhammad Faisal Sajid Mahmood (MSc 2022-24)
- Maria Irshad, Maryam Asif, Saima Akhtar (BS 2019-23)
- Qamar Sharif, Raja Abdul Hameed, Wasif Ali (MSc 2020-22)
- Adil Majeed, Mehwish Ali, Samra Zulfiqar, Binash Basharat (BS 2018-22)
- Fouzia Mehboob, Munawar Hussain, Ali Hamza, Ayesha Saleem, Khalil Ahmed (MSc 2019-21)
- Asma Batool, Momna Azhar, Maria Aftab, Atika Ajaz, Hira Shahzadi (BS 2017-21)
- Muhammad Fizan Arif Khan, Sana Nazir, Zubaria Khalid, Muhammad Imtiaz, Nomana Rukhsar (MSc 2018-20)
- Hina Nazir, Taskeen ul Fatima, Zobia Basri (BS 2016-20)
- Sana Jamil, Iram Mahmood, Sidra Batool, Sonia Bukhari, Saba Kabir (MSc 2019)
- Sana Afzal, Tayyaba Zafar, Samra Arshad, Saba Bibi (MSc 2018)
- Nayab Kiran, Umara Akhtar, Zonish Riaz, Saima Saghir (MSc 2017)

Service Activity:

- Reviewer at Directorate of Curriculum Research Development, Muzaffarabad, AJ&K in 2016-17.
- Reviewer for some national and international journals.
- External Reviewer of Institutional Performance Evaluation (IPE) and MS/MPhil & PhD Review.
- Committees for University of Poonch, Rawalakot, AJ&K in 2019.
- External MPhil and PhD reviewer for some national universities.

Courses Taught:

Graduate Level (MPhil & PhD):

- Advances in Discrete Mathematics and its Applications
- Bifurcation and Chaos
- Fundamentals of Turbulence
- Mathematical Techniques for Boundary Value Problems
- MagnetoHydroDynamics (MHD)

Undergraduate Level (MSc and BSCS/BS/BSc):

- Fluid Mechanics
- Dynamical Systems
- Calculus of One and Several Variables
- Mechanics
- Analytical Mechanics
- Topology
- Functional Analysis
- Metric Spaces
- Linear Algebra
- Abstract Algebra
- Ordinary and Partial Differential Equations
- Numerical Analysis
- Methods of Mathematical Physics, etc.

Brief Statement of Research Interest:

- Fluid Mechanics
- Nonlinear Dynamical Systems
- Bifurcation Theory
- Boundary Value Problems

Publications:

1. Z Iqbal, S U Khan and **I Ahmad**, Mathematical modeling and simulations for peristaltic flow of Powell–Eyring hybrid nanofluid (Al_2O_3–Cu/blood) due to complex wavy conduit with Hall current, Mod. Phys. Lett. B, (2025). doi.org/10.1142/S021798492550160X
2. Z Iqbal, **I Ahmad**, S U Khan, L Kolsi, N Becheikh, and K Ghachem, *Thermal analysis of hybrid nanofluid flow in blood vessels with peristalsis: Case study for Hall current and radioactive heat transfer*, Case Stud. Therm. Eng., (2025).
3. Z Iqbal, **I Ahmad**, and S U Khan, *Exploring thermal characteristics of Carreau-hybrid nanofluid (Ag–CuO/EG) in curved channels with convective boundaries*, Mod. Phys. Lett. B, (2024). *doi.org/10.1142/S0217984925500691*
4. **I Ahmed**, S Hameed, A Abbasi, S U Khan, W Farooq, M A. Almeshaal, M Alhadri, L Kolsi, *Computation insight of modified thermal distribution of hybrid nanofluids in complex wavy channel: A comparative thermal approach for different nanofluid models,* Sci. Iran., (2024).
5. Z Iqbal, **I Ahmad**, and S U Khan, *Peristaltic transport of Prandtl hybrid nanofluid (MWCNTs-SWCNTs/engine oil) in non-uniform ducts: Exploring electro-osmosis and Joule heating effects through Keller box simulations, Mod. Phys. Lett. B,* (2024). doi.org/10.1142/S021798492550037X.
6. R Ahmed, A Q Khan, M Amer, A Faizan, and **I Ahmed**, *Complex Dynamics of a Discretized Predator–Prey System with Prey Refuge Using a Piecewise Constant Argument Method*, Int. J. Bifurc. Chaos, (2024).
7. Z Iqbal, **I Ahmad**, S U Khan, *Peristaltic transport of magnetized Williamson hybrid nanofluid in a complex wavy channel with various shape features*, J. Therm. Anal. Calorim., (2024).
8. W. Farooq, A. Abbasi, K. Al-Khaked, K. Ghachem, S. U. Khan, ***I. Ahmad***, L. Kolsi, *Thermal aspect of boron nitride nanotubes (BNNT) and multiwall carbon nanotubes (MWCNT) with distinct physical features: Keller Box simulations*, J. Appl. Math. Mech., (2022).
9. S. Z. H. Bukhari, T. Salahuddin, ***I. Ahmad***, M. Ishaq, S. Muhammad, *Uniformly Close-to-Convex Functions with Respect to Conjugate Points*, *KYUNGPOOK Math. J.*, (2022).

10. ***I. Ahmad***, L. Hadj-Taieb, M. Hussain, M. A. Khadimallah, M. Taj, A. Alshoaibi, *Hierarchical structure parameters in three-dimensional turbulence: She-Leveque model*, Smart Struct. Syst., (2022).
11. M. Taj, M. A. Khadimallah, H. Ayed, M. Hussain, S. Mahmood, ***I. Ahmad***, *Buckling influence of intermediate filaments with and without surface effects*, Adv. Nano Res., (2022).
12. M. A. Raza, S. Z. Bukhari, ***I. Ahmed***, M. Ashfaq, M. Nazir, *Properties of functions with symmetric points involving subordination*, J. Funct. Spaces, (2022).
13. A. Q. Khan, S. Khaliq, O. Tunç, A. Khaliq, M. B. Javaid and ***I. Ahmed***, *Bifurcation analysis and chaos of a discrete-time Kolmogorov model*, J. of Taibah University for Science, (2021).
14. A. Q Khan, S. Khaliq, Q. Tunk A. Q. Khan, S. M. Qureshi and ***I. Ahmed***, *Dynamic Characteristics of Four Systems of Difference Equations with Higher Order*, Adv. Math. Phys., (2021).
15. M. Nazir, S. Z. Bukhari, ***I. Ahmed***, M. Ashfaq and M. A. Raza, *Starlikeness of Normalized Bessel Functions with Symmetric Points*, J. Funct. Spaces, (2021).
16. S. Z. Bukhari, R. RazzaqI, ***I. Ahmed***, *Weighted Integral Transforms Involving Convolution With Some Subclasses of Analytic Functions*, Ikonion J. Math., (2021).
17. A. Q. Khan, A. Z. Kiyani and ***I. Ahmad***, *Bifurcation and hybrid control in a 3×3 discrete-time predator-prey model*, Math. Biosci. Eng, 17(6), (2020).
18. A. Q. Khan, ***I. Ahmad,*** H. S. Alayachi, M. S. M. Noorani, and A. Khaliq, *Discrete-time predator-prey model with flip bifurcation and chaos control*, Math. Biosci. Eng., 17(5), (2020).
19. A. Q. Khan, M. Arshad, B. A. Younis, Kh. I. Osama, T. F. Ibrahim, ***I. Ahmed*** and A. Khaliq, *Global dynamics of some exponential type systems*, Discrete Dyn. Nat. Soc., (2020).
20. ***I. Ahmad***, Z. M. Lu and Y. L. Liu, *Longitudinal and transverse structure functions in decaying nearly homogeneous and isotropic turbulence*, Chin. Phys. B., (2014).
21. ***I. Ahmad***, Y. X.Huang and Z. M. Lu, *Detrended analysis of Reynolds Stress in a decaying turbulent flow in a wind tunnel with active grids*, J. HydroDyn. Ser. B., (2014).