



Dr. Asif Ali Shaikh

Full Professor (BPS-21)



Date of birth: December 01, 1968



asif.shaikh@faculty.muet.edu.pk



2200 (Ext.)



Marital status: Married



Department of Basic Sciences and Related Studies, Mehran University of Engineering and Technology, Jamshoro, Pakistan.



Google Scholar

Education

Postdoc: (2024) Department of Mathematics, Mathematical Research Center, Faculty of Arts and Sciences, Near East Boulevard, ZIP: 99138 Nicosia, TRNC Mersin 10 – Turkey.

Ph.D.: (2015) Institute of Mathematics and Computer Science, University of Sindh, Jamshoro, Pakistan. PCD No. 23308 (HEC, Pakistan).

Technical Skills

–MATLAB R2018a
–Mathematica 12.1
–FORTRAN 90/95
–C++

Areas of Expertise

–Fractional Calculus and its applications
–Mathematical Epidemiology
–Mathematical Modeling
–Computational Fluid Dynamics
– Numerical Techniques for Nonlinear Models

Experience

- 2016– Full Professor of Mathematics in the Department of Basic Sciences and Related Studies, Mehran University of Engineering and Technology, Jamshoro, Sindh, Pakistan.
- 1998-2016 Assistant Professor of Mathematics in the Department of Basic Sciences and Related Studies, Mehran University of Engineering and Technology, Jamshoro, Sindh, Pakistan.
- 1992-1998 Lecturer of Mathematics (on contract) in the Department of Basic Sciences and Related Studies, Mehran University of Engineering and Technology, Jamshoro, Sindh, Pakistan.

Administrative Responsibility

1. Internal Expert of Board of Studies for the Undergraduate Programs, Institute of Environmental Engineering & Management (IEE&M) from 23/07/2026 to date.
2. Internal Expert of Board of Studies for the Undergraduate Programs, Department of Chemical Engineering from 23/07/2026 to date.
3. Chairman of the Provincial Review Committee (PRC), School Education & Literacy Department, Government of Sindh from 15/12/2023 to date.
4. Chairman of the Department of Basic Sciences and Related Studies, Mehran University of Engineering and Technology, Jamshoro, Sindh, Pakistan from 15/04/2021 to 15/04/2024.
5. President of MUTA (Mehran University Teachers Association), 2022.
6. President of MUTA (Mehran University Teachers Association), 2021.
7. ISO Coordinator, Department of Basic Sciences and Related Studies, Mehran University of Engineering and Technology, Jamshoro.

Academic Membership

1. Member, Selection Board, Liaquat University of Medical and Health Sciences, Jamshoro.
2. Member, Pakistan Mathematical Society
3. Member, Senate, Mehran University of Engineering and Technology, Jamshoro.
4. Member, Board of Studies, Department of Basic Sciences and Related Studies, Mehran University of Engineering and Technology, Jamshoro
5. Member, Board of Studies, Department of Mathematics and Statistics, Quid-e-Awam University of Engineering, Sciences and Technology, Nawabshah.
6. Member, Board of Studies, Institute of Mathematics and Computer Science, University of Sindh, Jamshoro
7. Member, Tender Committee for Hiring Security at University of Sindh, Jamshoro and affiliated Campuses
8. Member, Selection Board, University of Sindh, Jamshoro.
9. Member, Selection Board, Quid-e-Awam University of Engineering, Sciences and Technology, Nawabshah.
10. Member, Selection Committee for Faculty Development Scholarship at Shaheed Benazir Bhutto University, Nawabshah, nominated by Higher Education Commission, Islamabad.



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–Mathematical Modeling
–Computational Fluid Dynamics
– Numerical Techniques for Nonlinear Models

Research Metrics

- Total Publications: >175 Scopus/Web of Science/Others
- Total Google Scholar Citations: 1724 on August 16, 2026
- Google Scholar h-index: 21 and i10-index: 41

Computer and Programming Skills

- Computer programming in FORTRAN 90/95, C++.
- Working experience with Mesh Generation Software.
- Working experience with Windows NT/2000/XP, LINUX and Microsoft office.
- Excellent command on the usage of Internet.

Author/Co-Author/ Editor of Books

- Applied Calculus (co-author)
- Linear Algebra and Numerical Methods (co-author)
- Numerical Analysis and Computer Programming (co-author)
- Statistical Methods and Estimations (Co-author)
- Differential Equations and Fourier Series (Editor)

Review Activities

So far, I have reviewed more than 100 research articles for national and international research journals including Chaos, Solitons, & Fractals (Elsevier), Mathematics (MDPI), Fractal and Fractional (MDPI), Fuzzy Sets and Systems (Elsevier), and many more.

Research Publications

Note: Please look at my Google Scholar Profile for Research Publications.

Oral Paper Presentation in Conferences

1. "Comparison through Numerical Simulation of a non-Newtonian fluid past obstacle of different shapes" (The 2011 ICMAAE) International Conference on Mechanical, Automotive and Aerospace Engineering, May 17-19, 2011. Legend Hotel, Kuala Lumpur, [Malaysia](#).
2. "Study of Newtonian and non-Newtonian fluids through numerical simulation of Reverse Roller Coating flows with free surface". The 2010 International Conference on Chemical Engineering and Applications (CCEA 2010), 26-28 February, 2010, pp. 1-5, [Singapore](#).
3. "Analysis of Coarse and dense meshes through numerical Simulation of non-Newtonian fluids past solid obstacle". The 2008 WSEAS 8th International Conference on Simulation modelling and Optimization. 23-25 September, 2008; Santander, Cantabria, [Spain](#).

Masters Theses Supervised/Co-Supervised

More than 50 students have received M.Phil. (Applied Mathematics) degree under my Supervision/Co-supervision while more than 6 are presently in process.

PhD Theses Supervised/Co-Supervised

Six students have successfully obtained their PhD degree under my supervision/co-supervision.

PhD Thesis under Supervision/Co-supervision

Four PhD candidates in the field of Applied Mathematics are working under my supervision/co-supervision.