

Shair-a-Yazdan

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Education

Exam	Year	Board/University	Division
SSC. (Science)	1995	Karachi Board	81.4%
F.Sc. (Pre. Eng.)	1998	Karachi Board	67%
B.Sc.(H) (App. Math)	2001	University of Karachi	65%
M.Sc.(App. Math)	2002	University of Karachi	71%
M.Phil.(App. Math)	2005	Quaid-i-Azam University, Islamabad	80%
Ph.D.(App. Math)	continue	KU(ISPA)	Requirement completed

Experience of teaching courses

- Statistical tool analysts in MBA and M.PHIL thesis.
- Calculus,
- Linear algebra,
- Differential equation,
- Numerical analyses,
- Real analyses,
- Complex analyses,
- Laplace and Fourier series,
- Discrete mathematics,

- Probability and Statistics,
- Advanced statistics
- Business mathematics,
- Computational mathematics
- Tensor Calculus
- Maple coding for PDE

Major Courses Studied in M.Sc.

- Classical Mechanics
- Electromagnetism
- Differential Geometry
- Fluid Mechanics
- Linear Algebra
- Real Analysis
- Numerical Analysis
- General Theory of Relativity

Major Courses Studied in M.Phil.

- Fluid Mechanics
- Analytical Dynamics
- Partial Differential Equations
- Group Method for Differential Equations
- Relativity
- Finite Difference Method
- Boundary Value Technique to Solve Differential Equations
- Astrophysics

Major Courses Studied in PhD

- Algebra
- Computational Mathematics
- Functional Analysis
- Real Analysis
- Geometry
- Symmetry Method to Solve Differential Equations
- Partial Differential Equations
- Quantum Mechanics
- Astrophysics for Galactic Center

Computer Skills

- Statistical tool analysts in MBA and M.PHIL thesis.
- Maple coding to solve ODEs, PDEs, and related problems.

Teaching Experience

- Assistant Professor, National University Fast, 2013 to 2015
- Lecturer, PAF KIET, since January 2020 to 2024
- Senior Lecturer, KASBIT
- Lecturer in Gravitational Physics to M.Phil. students, ISPA University of Karachi (Evening Program), 2008, 2023
- Visiting Lecturer, Urdu University, 2009-2010
- Visiting Lecturer, NUST, 2007-2009
- Visiting Lecturer, Bahria University, 2009-2010
- Visiting Lecturer, Biztek, 2010
- Research Assistant, 2005-2006
- level A level teaching
- Private schools

Distinctions

Merit Scholarship during M.Phil.

Publications

1. MPhil Thesis "Conformal Motions in Plane Symmetric Static Spacetimes" published in the Journal of Modern Physics D.
2. Saifullah, K., Shair-E-Yazdan: Conformal motions in plane symmetric static space-times. International Journal of Modern Physics D 18(1), 71–81 (2009). World Scientific.
3. Research paper titled "Conformal Motions in Plane Symmetric Static Spacetimes" published in General Relativity and Gravitation.
4. Hickman, M., Yazdan, S.-a.: Noether symmetries of Bianchi Type II Spacetimes. General Relativity and Gravitation 49, 1-15 (2017).
5. PhD Thesis” Noether symmetries of Bianchi type Spacetimes via Riff integration Technique.”
6. Shair-a-Yazdan, Iqbal, M.J., Hickman, M.: Energy model in Bianchi Type-V spacetime via RIF integration techniques. Modern Physics Letters A 38(38n39), 2350164 (2023).
7. Shair-a-Yazdan, Muhammad Jawed Iqbal, and Mark Hickman. "Anisotropic models in magnetized Bianchi Type-III spacetimes via Noether symmetries." *Modern Physics Letters A* 40.07n08 (2025): 2550003.
8. Electromagnetic field in Bianchi type ix space-time(Process)

Games/Hobbies

- Poet (published in newspapers like Awami, Emaan, Nawa-e-wqat)
- Debater (won prize in debate competition at Karachi University)

