

WOMEN UNIVERSITY MARDAN

DEPARTMENT OF MATHEMATICS

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Faculty Resume

Name:	Dr. Mehnaz
Personal:	Department: Mathematics
	Designation: Assistant Professor
	Email: mehnaz.shakeel@wumardan.edu.pk, Maths.fwu@gmail.com
Experience	1. Lecturer, SBBWUP (14 th April 2008-17 th April 2023).
0 1:0 4:	Assistant Professor (18 th April 2023 till date) Plus B
Qualification	Ph. D
Honor and	Gold Medalist, SBBWU, Peshawar
Awards	
Memberships	BoS,
Graduate Students	Six M. Sc students
Postdocs	Three BS students
Undergraduate	Two M. Phil students
Students	
Honor Students	
Service Activity	Teaching, Research
Brief Statement of	Numerical solution of PDEs and fractional PDEs
Research Interest	Modeling and simulation
	Meshless methods
	Fractional Inverse Problems
Publications	1. Mehnaz Shakeel, Iltaf Hussain, Hijaz Ahmad, Imtiaz
	Ahmad, Phatiphat Thounthong, Ying-Fang Zhang,
	Meshless technique for the solution of time-fractional
	partial differential equations having real-world
	applications, Journal of Function Spaces, 2020.
	2. Imtiaz Ahmad, Siraj-ul-Islam, null Mehnaz, Sakhi Zaman,
	Local meshless differential quadrature collocation
	method for time-fractional PDEs, Discrete and
	Continuous Dynamical Systems –S, 13, 2020.
	3. Mehnaz Shakeel, Shahida Parveen, Siraj-ul Islam and Iltaf
	Hussain, Numerical solution and characteristic study of
	time-fractional shocks collision, Physica Scripta, 96,
	2021.
	4. Mehnaz Shakeel, Muhammad Nawaz Khan, Imtiaz
	Ahmad, Sayed Abdel-Khalek, Alghamdi Ahmed
	Mohammed, Mustafa Inc, The generalized time

		fractional Gardner equation via numerical meshless
		collocation method, Thermal Science, 26 ,2022.
	5.	Hajira Irshad, Mehnaz Shakeel, Imtiaz Ahmad, Hijaz
		Ahmad, Chutarat Tearnbucha, Weerawat Sudsutad,
		Simulation of generalized time fractional Gardner
		equation utilizing in plasma physics for non-linear
		propagation of ion-acoustic waves, Thermal Science, 27 ,2023.
	6.	Mehnaz Shakeel, Muhammad Nawaz Khan, Imtiaz
		Ahmad, Hijaz Ahmad, Nantapat Jarasthitikulchai,
		Weerawat Sudsutad, Local meshless collocation scheme
		for numerical simulation of space fractional PDE, Thermal
		-
	7	Science, 27 , 2023.
	/.	Muhammad Asif, Faisal Bilal, Mehnaz, Rubi Bilal,
		Nadeem Haider, Shaimaa A.M. Abdelmohsenc, Sayed M.
		Eldind, An efficient algorithm for the numerical
		solution of telegraph interface model with
		discontinuous coefficients via Haar wavelets, Alexandria
		Engineering Journal, 72, 2023.
	8.	Hina Zahir, Javaria Akram, Mehnaz, Reem K. Alhefthi,
		Rabbia Fatima, Mustafa Inc, Effect of nonlinear thermal
		radiation and homogeneous-heterogeneous reactions on
		peristaltic propulsion of Johnson-Segalman fluid, Ain
		Shams Engineering Journal, 2023.
Research Grants	•	Nil
and Contracts	_	IVII
	1	Organized 3 days workshop on "Latex" for Masters students
Other Research or	1.	in July 2012 (13th-15th July).
Creative	2.	
Accomplishments	۷.	in November 2012 (13th-15th Nov.).
	3.	
		Mathematics with Applications on 10th March 2014,
		sponsored by HEC Pakistan
	4.	, , , , , , , , , , , , , , , , , , ,
		industry, organized by UET Peshawar."
	5.	, , ,
	٥.	
		its application, organized by UET Peshawar."
		Attended "National Conference on Mathematical Sciences in
	6.	Attended "National Conference on Mathematical Sciences in Engineering Applications, organized by UET Peshawar."
	6.	Attended "National Conference on Mathematical Sciences in Engineering Applications, organized by UET Peshawar." Attended "National Conference on Emerging trends in
	6.	Attended "National Conference on Mathematical Sciences in Engineering Applications, organized by UET Peshawar." Attended "National Conference on Emerging trends in Computing, Statistics and Mathematical Sciences, organized
	6. 7.	Attended "National Conference on Mathematical Sciences in Engineering Applications, organized by UET Peshawar." Attended "National Conference on Emerging trends in Computing, Statistics and Mathematical Sciences, organized by SBBWU Peshawar."
	6.	Attended "National Conference on Mathematical Sciences in Engineering Applications, organized by UET Peshawar." Attended "National Conference on Emerging trends in Computing, Statistics and Mathematical Sciences, organized

	 Online Course organized by Coursera, Introduction to Programming with Matlab, Vanderbilt University.
Selected Professional Presentations	 Given lecture as a resource person in 3 days workshop on "Latex" for Masters students in July 2012 (13th-15th July). Given lecture as a resource person in 3 days workshop on "Latex" for M. Phil scholars in November 2012 (13th-15th Nov.). Given lecture as a resource person in 3 days workshop on "Latex" for Masters students in Dec. 2013 (25th, 26th Dec.). Paper presentation in "International conference on Modeling and Simulation 2013" in Nov. 2013 (25th-27th Nov.) organized by AIR university, Islamabad. Paper presentation at "National Conference on Mathematical Sciences in Engineering Applications, organized by UET Peshawar."