




Faculty Profile
Of
Dr. Madan Lal
M. J. P. Rohilkhand University, Bareilly.

Title	Dr.	First Name	Madan	Last Name	Lal	Photograph 
Designation		Assistant Professor				
Department		Applied Mathematics				
Address	Campus	Dept. of Applied Maths., Basic Science Building.				
	Residence	8-B.C. Bank Colony, Surkha, Bareilly.				
Mobile No.		9456207701 9897755148 (WhatsApp)				
Email ID		Personal	madan.mjpru@gmail.com			
		University Domain	madan.lal@mjpru.ac.in			
Educational Qualifications (Graduation Onwards)						
Course/Degree	Institution		Year	Details/Thesis Topic/Subjects		
B.Sc.	M.J.P.R.U. Bareilly		1995	Subjects: PCM		
M.Sc.	M.J.P.R.U. Bareilly		1997	Subject : Mathematics		
Ph.D.	M.J.P.R.U. Bareilly		2003	Thesis Topic: "Some Problems on Hydrodynamics and MHD Flows."		
Career Profile						
Organization / Institution		Designation	Duration	Nature of Duties		
Dept. of Mathematics, Bareilly College, Bareilly.		Guest Lecturer	1997-1998	Academic		
Dept. of Applied Mathematics, Faculty of Engg. & Tech., MJPRU, Bareilly.		Guest Lecturer	1998-2007	Academic		
Dept. of Applied Mathematics, Faculty of Engg. & Tech., MJPRU, Bareilly.		Assistant Professor	2007- continuing	Academic and Administrative		
Research Interests / Specialization						
Fluid Mechanics, Magnetohydrodynamics.						

Research Experience in Years : 23									
No of Research Scholars Successfully Guided									
Name of Programme		Awarded				Under Supervision			
Ph.D.		02				06			
M.Phil.		01				Nil			
Teaching Experience (Subjects/Courses Taught) : 25 years									
1997-1998 : Complex Analysis , Differential Equations , Matrices , Vector									
1998-2003 : Engineering Mathematics- I , Engineering Mathematics- II , Operations Research									
2003-2023 : Modern Algebra , Topology , Differential Geometry and Tensor Algebra , Fluid Dynamics, Mathematical Statistics.									
Publications /Academic Activities (Numbers Only)									
Books & Monographs (Single Author)	-	Research Papers Published in International Journals	18	Papers Presented in Seminars/ Conferences	8	Seminars/ Symposium Organized	1	Research Projects (Completed)	-
Books (Co-authored)	9	Research Papers Published in Other Journals	5	Seminar/ Conferences Attended	9	Workshops /FDPs attended	14	Research Projects (Ongoing)	1
Books (Edited)		Articles Published in Popular Fora, e.g., Websites, Blogs, Newspapers, Magazines etc.	-	Sessions Chaired in Seminars/ Conferences	4	Memberships of Academic/ Professional Bodies	2	Development of e-content on UPHE Digital Library	16
Chapters in Edited Books	4			Resource Lectures Delivered	2				

Details of Publications /Academic Activities			
(a) Papers Published in UGC Care Listed /Indexed/ Peer Reviewed Journals			
Year of Publication	Title	Name of Journal	ISSN No
2001	Study of Unsteady flow of an electrically conducting viscous fluid.....under the influence of an arbitrary time varying pressure gradient.	Bulletin of Pure and Applied Sciences, Vol.20E (No.1), 47-50.	0970-6577
2003	Velocity character of two Rivlin-Ericksen fluids.	Bulletin of Pure and Applied Sciences, Vol.22E(No.2), 335-339.	0970-6577
2010	Flow of Viscous Conducting Fluid Through Triangular Tube.	Journal of Computer & Mathematical Sciences, Vol.1(3), 274-277.	2319-8133
2011	Heat Transfer in Magnetohydrodynamics.	Journal of Computer & Mathematical Sciences, Vol.2(1),153-158.	2319-8133
2011	MHD Flow of a Dusty Fluid.	Journal of Computer & Mathematical Sciences, Vol.2(2), 352-357.	2319-8133
2013	Study of Magnetohydrostatic Problems in Force Free Field.	Journal of Computer & Mathematical Sciences, Vol.6(12), 460-464.	2319-8133
2015	Free Convective MHD Flow Through Porous Media	SRMS Journal of Mathematical Sciences, Vol. 2(1), 56-64.	2395-725X
2016	A Study on Unsteady Dusty Viscous Fluid Flow Through A Circular Pipe Under the Influence of an Uniform Transverse Magnetic Field	Journal of Computer & Mathematical Sciences, Vol. 7(12), 710-715.	2319-8133
2017	Mathematical Analysis on Blood Flow in Stenotic Inclined Artery.	International Journal of Advance Research and Innovation, 55-57.	2347-3258
2017	Mode to Mode Energy Transfer in Magneto- hydrodynamic Turbulence.	International Journal of Advance Research and Innovation, 52-54.	2347-3258
2017	Unsteady Flow of Electrically Conducting Viscous Fluid through a Rectangular Channel.	Journal of Computer & Mathematical Sciences, Vol. 8(12), 837-840.	2319-8133
2017	Flow of Two Immiscible Visco-Elastic Fluids Between Parallel Plates.	Parishodh Journal, Vol. 6(1), 26-31.	2347-6648
2017	Analytical Study of MHD Thermoconvective Waves Through its Propagation	SRMS Journal of Mathematical Sciences, Vol. 3(1), 1-6.	2394-725X
2018	Computational and Theoretical Fluid Dynamics Non-linear Energy Transfer in Magnetized Plasma.	International Journal of Pure and Applied Mathematics, Vol. 118, No. 22.	1314-3395
2018	Energy Decay of MHD Turbulence for Five-point Correlation.	Journal of Computer and Mathematical Sciences, Vol. 9(10).	2319-8133
2018	Investigation of non-Newtonian	Journal of Computer & Mathematical	2319-8133

	Blood Flow Characteristics through an Overlapping Stenosed Artery with Variable Viscosity.	Sciences, Vol. 9(11), 1795-1802.	
2019	Unsteady Flow of a Dusty Gas through a Horizontal Pipe with Time Varying Pressure Gradient.	Int. J. of Innovative Technology and Exploring Engineering, Vol. 9(3), 627-631.	2278-3075
2020	Natural Convection MHD Effect on Heat Transfer in Vertical Cylinder	Int. J. of Innovative Technology and Exploring Engineering, Vol. 9(4). 237-240.	2278-3075
2020	Slip Velocity Effect on Blood Flow through a Multi – Irregular Constricted Artery.	Int. J. of Innovative Technology and Exploring Engineering, Vol. 9(4).1969-1972.	2278-3075
2020	A Two Phase Mathematical Model of Fluid Flow through Bell Shaped Stenotic Artery.	Int. J. of Innovative Technology and Exploring Engineering, Vol. 9(5). 35-38.	2278-3075
2021	Suspension Model Of Fluid Particle For Blood Flow Through Balloon Catheterized Elliptic Shaped Stenosed Artery	Bioscience Biotechnology Research Communications, Vol. 14(5), 343-348.	0974-6455
2021	Numerical Study of Magnetohydrodynamic Flow of Dusty Fluid Through Different Channels	Communications in Mathematics and Applications, Vol. 12(4), 815-824.	0975-8607
2022	A Mathematical Model of Blood Flow in a Multi-irregular Stenosed Artery in Presence of Uniform Magnetic Field	International Journal of Biology, Pharmacy & Allied Sciences, Vol. 11(3),1394-1406.	2277-4998

b) Chapters in edited books

Publication		Title of the Book	Title of the Chapter	Name & Address of Publisher	Year	ISBN
National	International					
INSC Publishing House		COVID - 19 : a Drill Down Analysis	Mathematical Analysis of Spread of Corona Virus in India	INSC Publishing House, Karnataka	2020	9788197637028
Walnut Publication		Emerging Advances in Mathematical and Physical Sciences	A study on spread of Corona virus in India	Walnut Publication , Bhubaneswar (Odisha), India	2020	978939026167 3
	Lexicon International Publishers	COVID-19 : The Clinical Management	Covid-19 : A Mathematical Approach	Lexicon International Publishers	2021	9788194914709
	Lexicon	COVID-	An Overview	Lexicon	2021	9789391271114

	International Publishers	19 : Vaccination & Its Outcome	of Vaccine of Different Diseases	International Publishers		
--	--------------------------	--------------------------------	----------------------------------	--------------------------	--	--

(c) Seminars/Conferences/Workshops Organized

Symposium on “Wavelet and its Applications in Engg. Problems” has been organized during 20-21 Dec. 2015.

(d) Administrative Positions/Assignments Held

Post	Organization	Duration	
		From	To
ADSW	MJPRU	2008	2018
		2020	Continuing
Co-ordinator	Training and Placement Cell, MJPRU, Bareilly.	2013	2014
Head/ Incharge	Department of Applied Maths, MJPRU, Bareilly.	2018	Continuing
Proctor, Basic Science	MJPRU	2022	Continuing

(e) Seminar/Conference Attended/Presentations

1. A research paper entitled “Stability of a Viscous Flow in Porous Medium” has been presented in 99th Indian Science Congress, during Jan . 3-7, 2012.
2. A research paper entitled “Steady Plane MHD Flow Through Porous Media .” has been presented in National Conference organized by Hindu College Moradabad, during Feb. 25- 26, 2012.
3. Participated in International Conference on Recent Trends in Climate change researches vis-à-vis Biodiversity held at M. J. P. Rohilkhand University, Bareilly during 3rd-4th December, 2012.
4. A research paper entitled “Analytical Study of MHD Thermo-Convective Waves Through its Propagation.” has been presented in 3rd National Conference Organized by SRMS College of Engg. & Technology, during Jan.22-23, 2016.
5. A research paper entitled “Mathematical Analysis on Blood Flow in Stenotic Inclined Artery” has been presented in Nation conference organized by Hindu College Moradabad, during Oct.17-18,2016.
6. A research paper entitled “Free Convective MHD Flow Through Porous Medium” has been presented in the National Conference organized by SRMS College of Engg. & Technology Bareilly, during Jan.22-23, 2016.
7. A research paper entitled “Analytical Study of MHD Thermo-Convective Waves Through its Propagation” has been presented in the National Conference organized by SRMS College of Engg. & Technology Bareilly, during July.18-19,2017.
8. A research paper entitled “Non Linear Energy Transfer in Magnetized Plasma Turbulence” has been presented in the National conference organized by Vardhaman College Bijnor, during Feb. 24-25, 2018.
9. Participated in National Conference on “Skill Development in India : Challenges and Opportunities” organized by Department of Humanities, M. J. P. Rohilkhand University, Bareilly during Feb. 4-5, 2019.
10. A research paper entitled “ A Study on Spread of Corona Virus in India” has been presented in the International E- conference organized by Hindu College Moradabad, during Jun. 28-30, 2020.
11. A research paper entitled “ A Study on Spread of Corona Virus in India” has been presented in the International E- conference organized by Hindu College Moradabad, during Jun. 28-30, 2020.

(f) Memberships of Academic/Professional Bodies

1. Life member of “Indian Science Congress Association” Kolkata .
2. Life member of “Indian Mathematical Society .”

(g) Any Other Details

1. Expert in UPPSC & CGPSC Exams/Interviews.
2. Reviewer of International Research Journal “Physics of Fluids”.
3. Member of Editorial Board of “Lexicon International Publishers”.
4. Acted as Assistant Co-ordinator in the central evaluation of the University in the year 2008, 2009, 2010, 2011, 2015, 2016, 2017, 2018.
5. Qualified NET-CSIR Examination in Dec.2001 and had obtained one year JRF from CSIR.
6. Observer in UP B.Ed., CTET & MJPRU Entrance Examinations.
7. Active Member of Flying Squad of MJPRU Exams.
8. Member & Convener of Board of Studies of Applied Mathematics.
9. Time-Table Incharge of F.E.T., MJPRU, Bareilly.
10. Expert to evaluate the research papers of the students of MJPRU.
11. Course-Work Co-ordinator of Pre-Ph.D. in Mathematics during 2018 and 2021.
12. Proctor, Basic Science.



Signature of Faculty Member