


Faculty Profile on University Website

www.mjpru.ac.in

Title	Dr.	First Name	Ram	Last Name	Keval	Photograph
Designation		Associate Professor				
Department		Applied Mathematics Department, M. J. P. Rohilkhand University, Bareilly.				
Address	Campus	Applied Mathematics Department, M. J. P. Rohilkhand University, Bareilly.				
	Residence	Type-III, B-08, Faculty Awas, M. J. P. Rohilkhand University Campus, Bareilly.				
Mobile No.		8800716362				
Email ID		Personal		ramkeval@gmail.com		
		University Domain		ramkeval@mjpru.ac.in		
Professional Networking ID, i.e. LinkedIn, Twitter etc.		https://www.linkedin.com/in/ram-keval-37a67416/				
Educational Qualifications (Graduation Onwards)						
Course/Degree		Institution		Year	Details/Thesis Topic/Subjects	
BSc		Lucknow University		2005	PCM	
MSc		IIT Roorkee		2007	Applied Mathematics	
PhD		IIT Roorkee		2015	Mathematical Modelling	
Career Profile						
Organization / Institution		Designation		Duration	Nature of Duties	
Lakshmi Bai College, Delhi University, Delhi		Assistant Professor		2013-2014	Teaching	
Keshav Mahavidyalaya, Delhi University, Delhi		Assistant Professor		2014-2016	Teaching	
M M M University of Technology Gorakhpur		Assistant Professor		2016-2023	Teaching and Research	
Research Interests / Specialization						

My research Area is Mathematical Modeling of infectious disease like Hepatitis C Virus, Encephalitis, Dengue etc.

Research Experience in Years - 09 years

No of Research Scholars Successfully Guided - 02

Name of Programme	Awarded	Under Supervision
Ph.D.	02	03
M.Phil.		
Dissertation (M.Ed./M.A.)	05	--

Researcher/ Expert ID	Scopus	Orchid	Publons	Vidwan	Google Scholar
		0000-0002- 1754-0033		141472	https://scholar.google.co.in/citations?user=wsRBws0A AAAJ&hl=en

Teaching Experience (Subjects/Courses Taught)

1. Subjects taught in BSc -Numerical Methods, Linear Algebra, Calculus, Complex Analysis, and Statistics etc.
2. Subjects taught in B. Tech. - Engineering Mathematics-I, -II, -III and -IV etc.
3. Subject taught in M. Tech. - Advanced Engineering Mathematics.
4. Subject taught in MSc – Mathematical Methods, Mathematical Modeling etc.

Honours / Awards & Fellowship FOR OUTSTANDING WORK

Name of Award/ Fellowship	Awarded By		
	Name of Governmental Agency	Name of Government Supported Organization/ Department	Name of International Recognized Body

Publications /Academic Activities (Numbers Only)

Books & Monographs (Single Author)		Research Papers Published in International	10	Papers Presented in Seminars/ Conferences	05	Seminars/ Conferences Organized		Research Projects (Completed)	
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		Journals							
Books (Co-authored)		Research Papers Published in Other Journals	02	Seminar/ Conferences Attended	30	Workshops Organized	02	Research Projects (Ongoing)	
Books (Edited)		Articles Published in Popular Fora, e.g., Websites, Blogs, Newspapers, Magazines etc.		Sessions Chaired in Seminars/ Conferences		Memberships of Academic/ Professional Bodies	01	Foreign Countries Visited for Academic Assignments	01
Chapters in Edited Books	05			Resource Lectures Delivered	03				

Details of Publications /Academic Activities (2010 Onwards)					
(a) Authored Books/ Monographs					
Name of Book		Year of Publication	Publisher	ISBN No	
Mathematical Biology and Biological Physics		2017(https://doi.org/10.1142/9789813227880_0008)	World Scientific	978-981-3227-89-7	
(b) Edited Books					
Year of Publication	Title	Publisher	ISBN	DOI No.	Citations
(c) Papers Published in UGC Care Listed /Indexed/ Peer Reviewed Journals					
Year of Publication	Title	Name of Journal	ISSN No	Citations	Impact Factor
2013	Modeling the dynamics of Hepatitis C Virus with combined antiviral drug therapy: Interferon and Ribavirin	Mathematical Biosciences	0025-5564	<u>25</u>	3.935
2016	Global dynamics of Hepatitis C Viral infection with logistic proliferation	International Journal of Biomathematics	1793-7159		2.2
2018	Influence of Intracellular Delay on the Dynamics of Hepatitis C Virus	International Journal of Applied and Computational Mathematics	2199-5796		
2020	The influence of vaccination on the control of JE with a standard incidence rate of mosquitoes, pigs and humans	Journal of Applied Mathematics and Computing	1598-5865	<u>9</u>	2.2
2021	A comparative series solutions of Japanese encephalitis model using differential transform method and variational iteration method”	WILLY-Heat Transfer	2688-4542		
2021	Analysis for transmission of dengue disease with different class of human population	Epidemiologic Methods	2161-962X	<u>5</u>	

2021	The impact of time delay in the transmission of Japanese encephalitis without vaccination	Proyecciones Journal of Mathematics	0717-6279		
2022	A mathematical study of dynamical model for Japanese encephalitis-dengue co-infection using JE vaccine	International Journal of Mathematical Modelling and Numerical Optimisation			
2022	Modeling optimal vaccination strategy for dengue epidemic model: a case study of India	Physica Scripta	0031-8949	2	
2022	Quantum-Resistant Public-key Encryption and Signature Schemes with Smaller Key Sizes	Cluster Computing			2.3

(d) Chapter/Paper Published in Edited Books

Publication		Title of the Book	Title of the Chapter	Name & Address of Publisher	Year	IS BN	DOI	Citation Google/web of science
National	International							
National	International	Advanced Science, Engineering and Medicine	Mathematical Modeling and Stability Analysis of Japanese Encephalitis	American Scientific Publishers	2020	2164-6627		
	International	<i>Mathematical Analysis and Computing</i>	Analysis of a Dengue Model with Climate Factors	Springer Proceedings in Mathematics & Statistics	2021	978-981-334645-1	https://doi.org/10.1007/978-981-33-4646-8_11	
	International	Mathematical	STABIL	PROCEEDIN	2021	22		

	onal	Sciences International Research Journal	TY ANALYSIS OF THE JAPANESE ENCEPHALITIS DISEASE MODEL USING THE VACCINE IMPACT IN HUMAN AS A CONTROL PARAMETER	GS OF THE INTERNATIONAL CONFERENCE ON ADVANCES IN MATHEMATICS & COMPUTER SCIENCE		78- 86 97		
	Internati onal	Mathematical Modelling and Computational Intelligence Techniques	Applicatio n of Optimal Controls on Dengue Dynamics- A Mathematical Study	Springer Proceedings in Mathematics & Statistics	202 2	97 8- 98 1- 16 - 60 17 -7	https://doi.org/10.1007/978-981-16-6018-4_1	
	Internati onal	<i>Mathematical Analysis and Computing</i>	Sensitivity and Stability Analysis in the Transmis sion of Japanese Encephali tis with Logistic Growing Mosquito Populatio n	springer	2021	97 8- 98 1- 33 4- 64 5-1	https://doi.org/10.1007/978-981-33-4646-8_6 , springer	

(e) Invited as Resource Lectures Person/Examiner/Expert

Resource person	Detail of Event	Title of Lecture	Date	Institution
<u>Dr. Ram</u>	Workshop on	<i>Introduction</i>	March 23-28, 2022	<i>Deen Dayal Upadhyaya</i>

<u>Keval</u>	Scientific Computing in Mathematical Sciences	<i>of Mathematica</i>		Gorakhpur University, Gorakhpur
<u>Dr. Ram Keval</u>	one week FDP on “Modern Research Methods and Analytical Tools”	<i>Introduction of Mathematica and applications in Differential equations</i>	December 05-09, 2022	Department of Humanities and Management Sciences, Madan Mohan Malaviya University of Technology, Gorakhpur
<u>Dr. Ram Keval</u>	Short Term Training Program on Recent Advances in Applied Mathematics	Hands on MATLAB	December 14 - 18, 2022	MSCD, Madan Mohan Malaviya University of Technology, Gorakhpur

(f) Seminars/Conferences/Workshops Organized

1. Organized a TEQIP sponsored **National Conference on Recent Advances in Mathematics and Scientific Computing (RAMSC-2019) during April 05th -06th, 2019, Organized by A. S. D., MMMUT, Gorakhpur.**
2. *Worked as a coordinator in One week Faculty Development Programme On Mathematical Tools and Recent Advances in Mathematics (MTAM-2020) September 21-25, 2020 organized by M.S.C.D., MMMUT, Gorakhpur .*
3. *Worked as a coordinator in One -week Faculty Development Programme on Mathematical Tools and Recent Advances in Applied Mathematics (MTRAM-2021) during August 16-20, 2021, Sponsored by AICTE Training and Learning (ATAL) Academy.*

(g) Projects (With Title, Year, Grants, Funding Agency and Collaborations)

Year	Name of Project	Funding Agency	Amount	Duration	
				From	Till

(h) Administrative Positions/Assignments Held

Post	Organization	Duration	
		From	To
coordinator of feedback	MMMUT, Gorakhpur	2021	June, 2023
NSS Programme officer	MMMUT, Gorakhpur	2017	June, 2023
Hostel warden	MMMUT, Gorakhpur	2022	June, 2023
In-charge of Day Scholar	MMMUT, Gorakhpur	2021	June, 2023

Club			
Incharge of PG convener	MMMUT, Gorakhpur	2020	June, 2023
In-charge of APR DPR etc. of Department	MMMUT, Gorakhpur	2020	June, 2023
Seminar/Conference Presentations <p>(1) Ram Keval, Sandip Banerjee, Sunita Gakkhar, “Effect of Proliferation terms in the dynamics of Hepatitis C Virus”, Page: 727-735, Volume-1, in the International conference on “Mathematical Modeling and Applied Soft Computing (MMASC 2012)” which has held in July 11-13, 2012, organized by Department of Mathematics, Coimbatore Institute of Technology, Coimbatore, Tamil Nadu, India, ISSN: 978-81-923752-1-2.</p> <p>(2) Ram Keval, “Dynamics of Hepatitis C Virus with saturation incidence rate”, Page: 39-44, in the conference “2nd Annual International Conference on Computational Mathematics, Computational Geometry & Statistics (CMCGS 2013)” which has held in February 4-5, 2013, organized and published by Global Science and Technology Forum (GSTF), Singapore, ISSN: 2251-1911.</p> <p>(3)Ram Keval, Sandip Banerjee, Sunita Gakkhar, “Dynamics of Hepatitis C virus (HCV) infection with Gompertzian Proliferation”, Procedia Engineering, 38, 2012, 2453-2462, ISSN: 1877-7058, UGC Approved Journal, Elsevier., International conference on Modeling Optimization and Computing, 10-11 April, 2012, organized by Noorul Islam University, Kumaracoil-629180, Tamil Nadu, India.</p> <p>(4)Presented a paper entitled “Proliferate Hepatitis C virus infection model with CTL and Antibody responses” in TEQIP –III Sponsored Nation Conference on Recent Advances in pure and Applied Mathematics (RAPAM-2018) during April, 12-13, 2018, Organized by Department of Applied science, Madan Mohan Malaviya University of Technology, Gorakhpur, India.</p> <p>(5)Presented a paper entitled “MATHEMATICAL ANALYSIS OF A DENGUE MODEL WITH VARIOUS CONTROLS” in the national conference Emerging Trends in Mathematical Sciences for Industry and Environment: Use of Technical Hindi Terminology held on 27/01/2020 to 29/01/2020 at Shaheed Bhagat Singh College, University of Delhi.</p>			
(j) Memberships of Academic/Professional Bodies <p>(1) Dr. Ram Keval membership of Indian Mathematical Society Life Since 2020</p>			
(k) Participation in Community Service / Exchange Programme / Consulting Activity			
(l) International Academic Exposure			
(m) Any Other Details			

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Signature of Faculty Member