STANDARD TEMPLATE OF FACULTY PROFILE FOR UPLOADING OF UNIVERSITY WEBSITE

Title	Prof.	First	Rashmi		Last	Bhardwaj	and the second of the second o	
THE	(Dr.)	Name	Kasiiiii		Name	Dilaluwaj		
Designation		Fellow of Institute of Mathematics & Applications, UK Professor of Mathematics						
School /De	ept. Name	University School of Basic & Applied Sciences						
Address:		Room No. B 504, Nonlinear Dynamics Research Lab, Guru Gobind Singh Indraprastha University, Sector 16C, Dwarka Delhi 110078						
Phone No.		Office	01	11-25302415				
		Resider	nce (oj	optional) +91-9013534105				
		Mobile	(oj	(optional) +91-9868818880				
Email		1. 1	rashmib@	jipu.ac.ir	<u>1</u> 2	. <u>rashmib22@gmail</u>	. <u>com</u>	
Web Page	(if any)	http://ipu.ac.in/usbas/ProfRashmi.pdf						
Subjects Taught		Engineering Mathematics, Operational Research, Theory of Probability, Numerical Analysis, LPP, NLPP, Nonlinear Dynamic, Wavelet Analysis, Computational Physics, Matlab						
Areas of Interest/Sj on	est/Specializati Nonlinear Dynamics, Applied & Computational Ma Statistics, Wavelet – Fractal - Chaos, Complex Dynamics, Partial Differential Equations, Numerical Analysis, Fluid I Optimization, Microfluidic - Nanofluidic, Atmos		Mathematics, ics, Ordinary & ud Dynamics & mospheric & Optimization chine Learning;					
Experience	Experience (in years) Total 31							
		Industr	ry.					
		Teachir	ng	26				
		Researc	ch	31				

Educational Qualifications	UG	B.Sc. (Hons.) Mathematics		
2	PG	M.Sc. Mathematics		
	Doctorate	Ph.D. Mathematics		
	Any other			
Research Publications in Journals (last 5 years)	1.Bangia A Kinesiolog Nonlinear2.Bhardwaj Coupled M and Closin3.Das, S. & Emotions and Applie4.Das, S. & Emotions and Applie4.Das, S. Kaziranga Mathemat5.Duhoon DBSCAN Analysis. press)6.Bhardwaj 	 & Bhardwaj, R. (2022). Chaotic Simulation of y of Musculoskeletal Movements. Journal of Applied Dynamics. 11(1). 233-245. R. & Bangia, A. (2022). Wavelet-Neural-Fuzzy Iodelling of National Stock Exchange (NSE) for Opening and Stock. Finance India. (in press) Bhardwaj, R. (2022). Analysis of Chaos Dynamics of in Employment Relation Model. Italian Journal of Pure ed Mathematics. (in press) & Bhardwaj, R. (2022). Dynamical modelling of wildlife ecology. Italian Journal of Pure and Applied ics. (in press) V. & Bhardwaj, R. (2022). Canopy, Cobweb, clustering data mining techniques: Study and Italian Journal of Pure and Applied Mathematics. (in press) R. & Duhoon V. (2022). Weather forecasting based on velet-neural model. Italian Journal of Pure and Applied ics. (in press) R.; Bhardwaj, S. & Sajid, M. (2021): Fractal Analysis ine Learned Decision system for Precision and Smart The European Physical Journal Special Topics. s11734-3-4 R. & Duhoon V. (2021). Hybrid modles for weather forecasting. Complexity. Volume 2021, Article ID 		
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	11. Das, S. 8	Bhardwaj, R. (2021): Time- Series Forecasting of inoceros poach at Kaziranga. <i>Pachyderm</i> , 62, 119-127		

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	(2021): Machine Learned Hybrid Gaussian Analysis of COVID-19
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15.	Das, S. & Bhardwaj, R. (2021): Recurrence analysis and
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	for Salinity of River Basins' Water Management. Neural
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17.	Bhardwaj R. & Bangia A (2021). Improvement in Long range
	prediction of Water quality using Wavelet based LSSVR and
	M5pRT. Complexity. Volume 2021, Article ID 6643472,
18.	Bhardwaj R. & Bangia A. (2021) Dynamical Indicator of Human
	Body's Physical Endurance. Nepal Journal of Mathematical
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19.	Bhardwaj, R . & Sajid M. (2021): Chaotic oscillation of Satellite
	due to Aerodynamic Torque. Advances in Astronomy. Volume
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years)	2. Bhardwaj, R. & Datta, D. (2019): Cutting Edge Science in Social
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	3. Das, S. & Bhardwaj, R (2018). Complexity analysis of atmospheric pollutants: Taj Mahal. <i>ATINER Conference</i>
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	4. Bhardwaj, R., Pruthi D. & Chawla M. (2018). Bifurcation
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	symposium on materials. 7 th Interdisciplinary Symposium on
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	Using Multi-Objective Optimization Techniques. (<i>Ed. Maurya S P; Yadav A K; Singh R. Modeling and Simulation of Environmental Systems: A Computation Approach.</i> CRC Press. Taylor and
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	Epidemiological Modeling RD_COVID-19 of Coronavirus
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	Analysis of Retail E-Commerce. Ed: Siddiqi, A. H.; Singh, R.C.
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	assessment of the HIV epidemiology development in Asian
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	the China region. Eds: Mishra J, Agarwal R & Atangana A.
	the child region. Eac. month o, nyurbat it to natifyanti n.

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		Bhardwaj, R . & Bangia, A. (2019). Dynamical Forensic Inference for Malware in IoT-based Wireless Transmissions.				
				ment in Mobile and <i>Ed</i> :		
	8		0	Agarwal, B. Wireless		
	Communications			•		
	18. Bhardwaj, R. &	Bangia, A. (2019). Nei	uro-Fuzzy Analysis of		
				JC; Das, KN; Nagar,		
	0			elligent Systems and		
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	1 0	01	(2017) F1	ractal and Variability		
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	5			ari P. Advancement in		
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		,	016). Wavelets and Fractal Methods with Dications. <i>Editors: Siddiqi, A H, Manchanda,</i> R. Mathematical Models, Methods and			
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	Singapore.	170 190. opi	inger seier	lice · Dubilicos moula,		
No. of Conferences		Attended		Organized		
	National					
		125		5		
	International	30		1		
	International	50		1		
Research Guidance	Awarded	PG	M. Phil	Doctorate		
				14		
	Undergoing			4		

Research Projects	Completed	9	
	Undergoing	3	
Awards & Distinctions	 2021 onwards. Visiting Associate Astronomy & Astrop Member of Sectional Sciences (including Indian Science CAssociation, Profess Technology, Ministr India. Member of Sectional Sciences (including Indian Science CAssociation, Profess Technology, Ministr India. Government of In Meteorological Dep MAUSAM Award (2 citation with co-aut) GGSIPU Indraprast Cell (IIQAC) certifica Indian Science Cong GGSIPU Indraprast Cell (IIQAC) certifica Institute of Mathem GGSIPU Indraprast Cell (IIQAC) felicitate recognized in the In Life Time Achievem India's 73rd Repub 	nent Award 2022 in Nonlinear Dyna lic Day Excellence Awards & Interna wards 2022, IMRF India, Registered 1	tre for natical sion of ngress ence & nent of natical sion of ngress ence & nent of India iennial 0/-) & urance of The urance of The urance archer urance archer urance r being mics - ational

	Bhardar Mata Abhinandan Samman 2022 by Bharat Mata Abhinandan Sangathan (Regd) & TimesIndia Ty com
	Abhinandan Sangathan (Regd.) & TimesIndia Tv com, Happiness Club Indore International, International R & D creativity Organization USA on 16 01 2022
	 creativity Organization USA on 16.01.2022. FoXclues India Prime Top 100 Women Icon Award 2021 by FoXclues, FoXstory, Hindustan Times, Dailyhunt.
	 LIFETIME ACHIEVEMENT AWARD 2021 - International Scientist Awards on Engineering, Science and Medicine, awarded by VDGOOD Professional Association on December 4- 5, 2021.
	• Dr. Sarvepalli Radhakrishnan Distinguished Professor Award 2021 in Applied Mathematics, awarded by Center for Professional Advancement Continuous Education – CPACE on September 05, 2021.
	• Best Researcher Award 2020 - International Research Award on New Science Inventions NESIN 2020, ScienceFather, Registered by Ministry of Corporate Affairs, Govt. of India.
	• The Best Researcher Award 2013-2014 of Guru Gobind Singh
	Indraprastha University (GGSIPU)
	 The Best Researcher Award 2012-2013 of GGSIPU, Best Researcher Award 2011-2012 of GGSIPU,
Administrative	 Member, Board of Studies, Department of Mathematics, Punjabi
Assignments	University, Patiala, July 2020 onwards
Handled	• Member, Board of Studies, Department of Mathematics, Jamia Millia University, Delhi, August 2020 onwards
	 Member Academic Council, Indian Institute of Finance, Greater Noida from April 2019 onwards
	 Vice Global Chief Editor, INGLOMAYOR, ISSN 0719 7578 (https://www.inglomayor.cl) from June 2020 onwards
	 Editor, Nepal Journal of Mathematical Sciences (NJMS), ISSN: 2738-9928 (Onli ne), 2738-9812 (Print); Publisher: School of Mathematical Sciences, Tribhuvan University from January 2021 onwards.
	• Vice President, Research Club of Kanpur International (RCKI) with President Prof. J B Shukla, IIT Kanpur since April 2021 onwards.
	• Member IIF Research Council of Indian Institute of Finance, Greater Noida from August 2021 onwards
Association with	Fellow of Institute of Mathematics and Applications, UK,
Professional Bodies	• Life member of Indian Science Congress Association (ISCA, The Indian Science Congress Association (Professional body under

Department of Science & Technology, Ministry of Science &
Technology, Government of India).
• Member of Sectional Committee of the Section of Mathematical
Sciences (including Statistics) for 2020-2021 (108th Session of
Indian Science Congress) and
• Member of Sectional Committee of the Section of Mathematical
Sciences (including Statistics) for 2019-2020 (107th Session of
Indian Science Congress);
Indian Academy of Social Sciences ISSA
Joint Secretary of ISSA
Councillor of ISSA
Indian Mathematical Society
Indian Society for Industry & Applied Mathematics
• Joint Secretary of ISIAM
 International Academy of Physical Sciences,
 Vijñāna Parishad of India
 Asian Society of Disaster Management Professionals
• Life Member of Human Rights Mission, Regd with Govt of India
• District DY. Chief Education Prot GB Nagar, Human Rights
Mission
• Life member of Centre for Fundamental Research in Space
Dynamics & Celestial Mechanics" (CFRSC) Delhi
 Vice Global Chief Editor, INGLOMAYOR,
• Visiting Associate of Inter University Centre for Astronomy &
Astrophysics (IUCAA), An initiative of University Grants
Commission, Govt. of India.
• Mmeber of Board of Studies, Department of Mathematics,
Punjabi Univeristy, Patiala
• Mmeber of Board of Studies, Department of Mathematics, Jamia
Millia Islamia University, Delhi
• Member of Academic Council of the Indian Institute of Finance
• Vice President, Research Club of Kanpur International (RCKI)
with President Prof. J B Shukla, IIT Kanpur
• Honorary Member of Centre for Advanced Research in Applied
Mathematics and Physics (CARAMP),
• American Mathematical Society (AMS),
• Gwalior Academy of Mathematical Sciences (GAMS),
• Editor of Indian Journal, of Industrial and Applied
Mathematics,
Chairperson of Task Force of XLII Indian Social Science
Congress, December 27-31, 2018, KIIT University,
Bhubaneswar, Orissa.

Any	other	PATENT(s)
Achievements		1. Bhardwaj R ., Datta D., Bhardwaj R., Sharma S., Bhardwaj, S. (2021): IoT and cloud-based system and method for smart
		drainage monitoring, early detection and rectification. Journal
		Number 07/2021. Publisher: The Indian Patent Office, New Delhi, India.
		2. Bhardwaj R., Datta D., Bhardwaj R., Datta D., Bhardwaj, S
		(2020): System and method for a handy computed tomography device for scanning lungs and internal organs. Journal Number
		39/2020. Publisher: The Indian Patent Office, New Delhi, India.
		3. Bhardwaj R., Datta D., Bhardwaj R., Bhardwaj, S., Sharma S.,
		Sharma SK, Shehri MA (2020): An apparatus and method with
		IoT to detect and control temperature change simulation case.
		Journal Number 26/2020. Publisher: The Patent Office, New Delhi, India.