




SLC (University of Delhi) Shyam Lal College



NAAC A++

Faculty Profile

Title	Dr.	First Name	Rahul	Last Name	Boadh	Photograph	
Designation		Assistant Professor					
Department		Mathematics					
Address		Village and Post-Maithna Inder Singh, Meerut-Uttar Pradesh-250001					
Email		rboadhmath@shyamlal.du.ac.in					
Web-Page		https://www.slc.du.ac.in/academics/departments/Mathematics/faculty-detiles/110					
Educational Qualification							
Degree		Subject		University/ College/Institution	Year		
B. Sc.		Maths ,Physics, Chemistry		Chaudhary Charan Singh University Meerut, Uttar Pradesh, India	2006		
M.Sc.		Mathematics		Chaudhary Charan Singh University (Campus) Meerut, Uttar Pradesh, India	2008		
GATE		Mathematics		GATE, MHRD	2008		
M. Tech.		Earth Science and Technology		Indian Institute of Technology, Kharagpur, India	2011		
Ph. D.		Functional Analysis (Sequence Spaces)		Indian Institute of Technology, Kharagpur, India	2016		
Experience							
		Name of the University/College/ Institute/Organisation		Designation & Status (Permanent/Ad-hoc)	From	To	Effective time period
Teaching		Annasaheb Dange College of Engineering & Technology, Ashta, Maharashtra		Asst. Prof, Permanent	June 2016	Dec. 2016	06 Months
		Madanapalle Institute of Technology and Science, Madanapalle, Ananthapur, A. P.		Asst. Prof, Permanent	Dec. 2016	July2017	7 Months
		K. R. Mangalam University, Sohna road Gurgaon, Haryana		Asst. Prof, Permanent	Aug. 2017	Mar. 2023	5 Years & 8 Months
		Shyam Lal College, University of Delhi		Asst. Prof, Permanent	27.03.2023	Till Today	
Research/ Corporate							
Consultancy							

Teaching-Learning Process (Academic Year 2022-23 Onwards)								
Are You using ICT (LMS, E-Resources)?	If yes, please give the details below:							
	Name						Total Numbers	
E-Resources								
Techniques and Platforms								
Career Advancement and Contribution to College Corporate Life (2022-23 Onwards)								
	Name of the Committee/ Centre/ Society/ Cell		Designation		From		To	
Convenor/Member of Committees	Institutions Innovation Council		IPR Activity Coordinator		2023-24			
	Fee Concession Science		Member		2023-24			
	Research & Development Cell		Member		27 th February 2024		Till Date	
	Proctorial Board		Member		2023-24			
Any Other Administrative Responsibility (Bursar, Coordinator, Superintendent etc.)	Stage Management & Floral Decoration Committee for the 59 th Annual Day		Member		21.10.2023		2023-24	
	International Conference on Advances in Pure and Applied Mathematics (ICAPAM) Vision India@2047		Coordinator		08.02.2024		10.2.2024	
Areas of Interest/Specialisation								
S.No.	Areas of Interest/ Specialisation							
1	Numerical Methods							
2	Linear Algebra							
3	Fuzzy sets and its Applications							
Subjects Taught								
S.No.	Subject			S.No.	Subject			
1	Latex Typesetting			6	Diff. Equation			
2	Linear Algebra			7	Transportation & Network Flow			
3	Ring Theory & Linear Algebra-I			8	Algebra			
4	Ring Theory & Linear Algebra-II			9	IT Skills & Data Analysis - I			
5	Group Theory			10	Statistics Software R			
Publications: Citation Index in Scopus/Web of Science or Pub Med/ Indian Citation Index								
Title of Paper	Name of the Author	Title of the Journal	Year of Publication	Citation Index	h-Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self-citations	Impact factor, if any
Implementation of an Adaptive Artificial	Rahul Boadh et al.	Journal of Pharmac	2022	1	6	K. R. Mangalam University		

Neural Network with Fuzzy Expert System for Diagnoses the Breast and Prostate Cancer: A Hybrid Technique		eutical Negative Results						
A review on fuzzy economic order quantity model under	Rahul Boadh et al.	AIP Conference Proceedings	2022		75	K. R. Mangalam University		
Fuzzy optimization model of two parameter weibull deteriorating rate with quadratic demand and variable holding cost under allowable shortages	Rahul Boadh et al.	Yugoslav Journal of Operations Research	2022	1.6	22	K. R. Mangalam University		
Fuzzy Expert System (FES) Integration for Oral Cancer Risk (OCR) Diagnosis.	Rahul Boadh et al.	Journal of Pharmaceutical Negative Results	2022	1	6	K. R. Mangalam University		
Application of fuzzy inference system (FIS) for assessment and predication of compressive asset of concrete containing fly ash	Rahul Boadh et al.	Materials Today: Proceedings	2022	3.2	69	K. R. Mangalam University		
Sensitivity of PBL schemes of the WRF-ARW model in simulating the boundary layer flow parameters for their application to	Rahul Boadh, ANV Satyanarayana, TR Krishna, S Madala	Atmósfera	2016			IIT Kharagpur		

air pollution dispersion modeling over a tropical station								
Use of ANN models in the prediction of meteorological data	P Rajendra, KVN Murthy, A Subbarao, Rahul Boadh	Modeling Earth Systems and Environment	2019			K. R. Mangalam University	39	
Investigation and analysis of fuzzy EOQ model for price sensitive and stock dependent demand under shortages	P Poswal, A Chauhan, Rahul Boadh, YK Rajoria, A Kumar, N Khatak	Materials Today: Proceedings	2022	3.2	69	K. R. Mangalam University	23	
Impact of artificial intelligence on civilization: Future perspectives	P Rajendra, M Kumari, S Rani, N Dogra, Rahul Boadh, A Kumar, M Dahiya	Materials Today: Proceedings	2022	3.2	69	K. R. Mangalam University	20	
Analysis and investigation of fuzzy expert system for predicting the child anaemia	Rahul Boadh, K Chaudhary, M Dahiya, N Dogra, S Rathee, A Kumar	Materials Today: Proceedings	2022	3.2	69	K. R. Mangalam University	17	
Assessment of dispersion of oxide of nitrogen using AERMOD model over a tropical industrial region	Rahul Boadh, ANV Satyanarayana, SR Krishna	International Journal of Computer Applications	2022			K. R. Mangalam University	17	
The initial investigation of mathematical anxiety & phobia: It's solution in middle school students	YKR Neelofar, I Alsaraireh, Rahul Boadh	Journal of Positive School Psychology	2022			K. R. Mangalam University	16	
Optimal strategy for remanufacturing	P Preety, C Anand, A Deo	Materials Today:	2022	3.2	69	K. R. Mangalam University	15	

system of sustainable products with trade credit under uncertain scenario	Datta, Rahul Boadh, Rajoria, YK, G Shikha Uniyal	Proceedings						
Comparative Study of Maximization Assignment Model by Existing Method and Newly Proposed Methods	A Tiwari, K Chaudhary, R Boadh, Rajoria, YK	International Journal of Operational Research	2022			K. R. Mangalam University		
Prediction and analysis of health risk by using fuzzy control system	G Kalra, R Boadh, YK Rajoria, P Rajendra.	International Journal of Health Sciences	2022			K. R. Mangalam University		
FIS-Based Prediction And Estimation Of Health Insurance For Workers In The Manufacturing Sector	G Kalra, K Kishore, A Kumar, YK Rajoria, A Yadav, R Boadh	Journal of Pharmaceutical Negative Results	2022			K. R. Mangalam University		
ASSESSMENT OF THE AMBIENT AIR QUALITY DURING DIWALI FESTIVAL OVER FARIDABAD CITY - A CASE STUDY	N SHARMA, Rahul Boadh, R SINGH	Jr. of Industrial Pollution Control	2018			K. R. Mangalam University		
Sensitivity of PBL parameterization schemes of Weather Research Forecasting Model and coupling with AERMOD in the dispersion of NOX over Visakhapatnam	R Boadh, ANV Satyanarayana, T Rama Krishna, S Madala	Asia-Pacific journal of chemical engineering	2015			IIT Kharagpur		
The Prediction and Analysis of	M Rawat, P Pathak, P Vats,	Eur. Chem. Bull.	2023			Shyam Lal College, University of Delhi		

Lung Cancer by using Fis and ANN Hybrid Technique	Rahul Boadh							
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Books and Chapters in Edited Volumes/Books published, and papers in National /International conference Proceeding per teacher during the Year

Title of Book/Paper/ Book Chapter	Publisher	National/International	Year
Air Pollution Dispersion using Coupled AERMOD-WRF modeling system and Generation of Gridded Emission Inventory of NO _x over Nagpur	Boundary Layer Flows - Modelling, Computation, and Applications of Laminar, Turbulent Incompressible and Compressible Flows. DOI: 10.5772/intechopen.108230	International	2022

Conference/ Seminar/ Symposium/ Workshop/ Presentation

Sr. No.	National/ International/state	Topic	Presentation/Attended /Resource Person	Date	Duration	Conferences
1	International	<i>International Conference on Materials, Machines and Information Technology-2022 (ICMMIT-2022)</i>	Paper Presentation	24 th -25 th January 2022	2	
2	International	<i>International Conference on Materials, Machines and Information Technology-2022 (ICMMIT-2022),</i>	Paper Presentation	24 th -25 th January 2022	2	
3	International	<i>International Conference on Science, technology and Socian Humanities (ICSTSH-2018)</i>	Paper Presentation	26-28 February 2018	3	
4	International	<i>Recent Activities in Regional Ocean Modelling, IIT Kharagpur</i>	Paper Presentation	10-12 March 2016	3	
5	International	<i>European Geosciences Union (EGU) Assembly meeting 2015, Vienna, Austria</i>	Paper Presentation	2-17 April 2015	6	
6	International	<i>International Tropical Meteorology Symposium (INTROMET – 2014)</i>	Paper Presentation	21-25 February 2014	5	
7	International	<i>American Geophysical Union (AGU), San Francisco, USA</i>	Paper Presentation	15-19 Dece	5	

				mber 2014.		
8	International	<i>International Conference on Theoretical, Applied, Experimental and Computational Mechanics (ICTACEM), IIT Kharagpur</i>	Paper Presentation	29-31 December 2014.	3	Conferences
9	International	<i>Second International workshop on Frontiers of Atmospheric Physics and Technology, Yogi Vemana University, Kadapa,</i>	Paper Presentation	01-03 March 2012.	3	
10	International	International Conference on Advances in Pure and Applied Mathematics (ICAPAM) Vision India@2047	Resource Person	Feb_0 8-10th _2024	3	
1	International	International Interactive Workshop on Economic Development and Atmospheric Pollution	Attend	06-09 February, 2012	4	Workshops
2	International	Workshop on 'Climate Modeling: Simulations & Analysis'	Attend	09-21 December 2013	13	

Research Projects/ Innovation Projects (Major Grants/Research Collaboration)/Patents National & International (Publish/Granted)

S.No.	Patent	Country	Status/Output
1	Hybrid Fuzzy Association Rule Algorithms to Detect the Anomalies in Health Care Data	Indian	Indian Patent Published: ID No: 202241025524.
2	Machine Learning Based Automatic Waste Management for E-Environment	Indian	Indian Patent Published: ID No: 202211047396.
3	Artificial Intelligence Integrated Human Paradigm through Organizational Agility and Sustainable Performance	Indian	Indian Patent Published: ID No: 202211051481
4	Artificial Intelligence Based Smart System to Monitor and Predict the Performance of Employees for Human Resources Management with Tremendous Growth of Industry	Indian	Indian Patent Published: ID No: 202211051656

5	A System for Monitoring Realtime Health Condition of a Patient and a Method thereof	South African	South African Patent Granted: ID No. 2022/09665
6	Developing Sustainable Green Electronics for an Environmentally-Friendly Future	Indian	Indian Patent Published: ID No: 202211054425
7	Integrated Machine Vision System for Human Micro-Expression Classification by AI Image Processing	Indian Patent	Indian Patent Published: ID No: Authors 202211054424
8	A System for Distinguishing the Dispersion Patterns of Air Pollutants by Using Hybrid Technique	German	German Patent Granted: ID No. 202022105576.9
9	Micro-Scale Dispersion of Air Pollutants across a Coastal Urban Environment	German	German Patent Granted: ID NO. 20 2022 105 965.9
10	A Coupling Technique Based System for Studying the pollutants emitted from vehicles	South African	South African Patent Granted: ID No. 2022/11443
11	A Method for identifying the most durable plastic material using radial basis function bipolar fuzzy neural network	South African	South African Patent Accepted. ID No. 2022/11999
12	A System for Detection of Foodborne Pathogen Salmonella	German	German Patent Granted: ID No. 20 2022 106 098.3

Research Guidance (Ph. D./ M. Phil.)

	No. of Ph.D. Students	No. of M.Phil. Students
Awarded	02	
Submitted		
Under Progress	01	

Fellowships/Awards /Distinctions/Recognitions

Year of Award	Name of the Fellowship/Award/ Distinction/ Recognition	Designation	Name of the Academic Bodies /Association	International /National/ State

Incentive to the teachers who receive recognition/awards

State	National	International

Association with the Professional Bodies

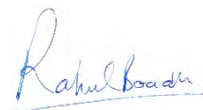
	Name of the Organisation	Year
Membership	Social Science and Humanities Research Association (Life-time member)	2020 (Onwards)
Membership	Teaching and Education Research Association (TERA) (Life-time member)	2020 (Onwards)

Development of E-Learning Delivery Process/Material

S.No.	Title of the Module	Recognized by/Submitted at/ Delivered at any government setup		
Refresher/ Orientation Programme/ FDP / Other Specialised Courses				
S.No.	Topic	Name of the Organiser	Place	Duration and Year
1	Faculty Induction Programme	TEACHING LEARNING CENTRERAMANUJAN COLLEGE	RAMANUJAN COLLEGE, UNIVERSITY OF DELHI	1 Month (23 April 2023 to 22 May 2023)
2	Online Two week Interdisciplinary Refresher Course "Advanced Research Methodology"	TEACHING LEARNING CENTRERAMANUJAN COLLEGE & M.V.S. Government Arts & Science College Mahabubnagar, Telangana	RAMANUJAN COLLEGE, UNIVERSITY OF DELHI	15 Days (22 May 2023 to 05 June 2023)

Declaration

I do hereby solemnly declare that the information given and the statements made by me are correct and true to the best of my knowledge.



Dr. Rahul Boadh

Signature with Full Name