



Shaheed Rajguru College of Applied Sciences for Women
University of Delhi
Faculty Profile

Name	DR. SANJIV KUMAR	
Designation	Assistant Professor	
Email	sanjiv.kumar@rajguru.du.ac.in	
Degree	Institution	Year
Ph.D. (Mathematics)	Department of Mathematics, University of Delhi	2018
M.SC (Mathematics)	Department of Mathematics, C.C.S University Meerut	2004
B.SC (Mathematics, Physics, Chemistry)	C.C.S University Meerut	2002
NET-JRF	CSIR	2010
GATE		2011
Areas of Interest / Specialization		
Differential Equations, Multivariate Calculus, Operational Research, Game Theory, Calculus, Integral Equation.		
Publications Profile		
S. Kumar, R. Chopra and R.R. Saxena, Method to solve Fuzzy Game Matrix, International Journal of Pure and Applied Mathematics, 89 (5), 679-687, (2013). S. Kumar, R. Chopra and R.R. Saxena, Matrix Games with Triangular Intuitionistic Fuzzy Pay Offs, Published in The Journal of Fuzzy Mathematics, Vol. 23, No. 3, 611-622, (2015). S. Kumar, R. Chopra and R.R. Saxena, A fast Approach to Solve Matrix Games With payoffs of Trapezoidal Fuzzy Numbers, Published in Asia Pacific Journal of Operational Research, Vol. 33, No. 6 (2016) 1650047 (14 pages). - R.R. Saxena, R. Chopra and S. Kumar, An Application of Matrix Games with Trapezoidal Intuitionistic Fuzzy Payoffs to Transportation Problem, Lecture Notes in Management Science, Vol. 9, 57-65, (2017).		
Books/ Book Chapters:		
S. Kumar and R. Chopra, "A Generalized Approach to Derive a Fuzzy Optimal Value of a Constant Sum Game with Payoffs as n-Polygonal Fuzzy Numbers" in Fuzzy Logic in Real Life Scenarios, (133-156), (2026).		

Research Guidance: Projects/Research Internships
• Supervised one undergraduate student for the award of B.Sc. (Hons.) with Research in Mathematics (Academic Project) in 2025-26 on the topic “Mathematical Modelling and Experimental Study of Cooling Rates of Hot Water in different types of Containers”. • Supervised one undergraduate student for the award of B.Sc. (Hons.) with Research in Mathematics (Academic Project) in 2025-26 on the topic “Mathematical Modelling of Radioactive Decay Processes in Environmental Systems”. • Supervised one undergraduate student for the award of B.Sc. (Hons.) with Research in Mathematics (Academic Project) in 2025-26 on the topic “A Mathematical Approach to Time of Death Estimation Using Newton’s Law of Cooling”. • Mentored two undergraduate students in a Research internship on the topic “Lanchester Models and their Applications: From Historical Battles to Modern Warfare” in 2024-2025.
Administrative Responsibilities
• Department Examination Coordinator • Member, Proctorial Board committee • Member, College Sports Committee • Member, College Garden Committee • Member, Environmental Audit Committee