



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

Name	Dr. Shalu Sharma	
Designation	Assistant Professor	
Email	shalu.sharma@raiguru.du.ac.in	
Degree	Institution	Year
Ph.D. (Mathematics)	Department of Mathematics, University of Delhi	2016
M. Phil. (Mathematics)	Department of Mathematics, University of Delhi	2006
M.Sc. (Mathematics)	Department of Mathematics, University of Delhi	2004
B.Sc. (Mathematics, Physics & Chemistry)	Kirori Mal College, University of Delhi	2002
NET (Mathematical Sciences)	CSIR-UGC	2009
Areas of Interest / Specialization		
Analysis, Linear Algebra, Differential Equations and Bases in Banach spaces and Theory of Frames (Functional Analysis)		
Association with Professional Bodies		
- Associate Editor, International Journal of Innovation and Multidisciplinary Research (IJIAMR). - Reviewer (Springer Nature)		
Publications Profile		
- SCHAUDER FRAMES SATISFYING CERTAIN PROPERTIES, Shikha Gupta Jain, S. K. Gandhi, Shalu Sharma, And Raksha Sharma, Poincare journal of mathematical physics and applications, Vol 1(1), 2026, 37-43. DOI: 10.46753/pjmpa.2026.v01i01.003 - SOME RESULTS ON FRAMES IN BANACH SPACES, Shikha Jain Gupta, S. K. Gandhi, And Shalu Sharma Poincare journal of analysis and applications, Vol 12(2),2025,77-83. (DOI: 10.46753/pjaa.2025.v012i02.007)(Corresponding author)(Scopus indexed) - BLOCK SEQUENCES OF RETRO BANACH FRAMES, Narendra Narayan Jha and Shalu Sharma , Poincare journal of analysis and applications, Vol. 7, No. 2 (2020), 267-274, DOI:10.46753/pjaa.2020.v07i02.010,ISBN- 2349-6789. (Corresponding author) (Scopus indexed) - NEAR EXACT OPERATOR BANACH FRAMES IN BANACH SPACES, Shalu Sharma, Khole - Timothy Poumai and Chander Shekhar, Poincare journal of analysis and applications, Vol. 2019(1), 67-76, ISBN- 2349-6789 (Scopus indexed) - AN AUTOMATIC IRRIGATION SYSTEM USING SELF MADE SOIL MOISTURE SENSORS AND ANDROID APP., Shalu Sharma ,Shivani Seth, Tanya Gandhi, Suruchi Chawla, Shakshi Bachhtey, Veni Gupta, Bhanvi Shukla, Monica Gupta, Pragya Kaushik,		

Shreshtha Pushkar, Sheetal Varshney, Saloni Mehta, Ruchika Jha, Amita Kapoor, Shaheed Rajguru College of Applied Science, University of Delhi, Delhi, India, Proceedings of Second National Conference on Recent Trends in Instrumentation and Electronics, 2016, ISBN-13:978-18539305422, ISBN-10-1539305422.

- APP BASED GARDEN BOT FOR REGULATION OF WATER LEVELS IN PLANTS, Suruchi Chawla, Amita Kapoor, **Shalu Sharma**, Bhanvi Shukla Monica Gupta, Pragya Kaushik, Shreshtha Pushkar, International Research Journal of Engineering and Technology (IRJET) Volume 3, Issue 10, Oct- 2016 S.NO: 228, e- ISSN: 2395 -0056, p-ISSN: 2395-0072.
- ON BI-BANACH FRAMES IN BANACH SPACES, **Shalu Sharma** , International Journal of Wavelets, Multiresolution and Information Processing, Volume 12, No. 2 (2014) 1450015. DOI: 10.1142/S0219691314500155. ISSN No. 0219-6913. (Scopus indexed)
- GENERALIZED SCHAUDER FRAMES, S. K. Kaushik and **Shalu Sharma** , Archivum Mathematicum, Vol. 50 (2014), No.1, 39-49. ISSN No.1212-5059. DOI: 10.5817/AM2014-1-39. (Scopus indexed)
- FRAMES OF EIGENFUNCTIONS ASSOCIATED WITH A BOUNDARY VALUE PROBLEM, L. K. Vashisht and **Shalu Sharma**, Hindawi Publishing Corporation, International Journal of Analysis, Volume 2014, Article ID 590324, ISSN No. 2314-498X.
- ON WEIGHTED BANACH FRAMES, L. K. Vashisht and **Shalu Sharma**, Communication in Mathematics and applications, Volume 3(3)2012, 283-292. ISSN No. 0976-5905.

Books/Book Chapters

- Elements of Real Analysis, Published by Department of Distance and Continuing Education, Campus of Open learning, University of Delhi. ISBN: 978-81-19417-55-1.

Research Guidance: Projects/Research Internships

- Supervised an undergraduate student (4th year) in an Academic Project on "A study of polynomial approximation: a Review on classical theorems to Modern Computational Methods" (Session 2025-26)
- Mentored three undergraduate students in a Research internship project on "Infinite Series and Its Applications." (Oct 2021-April 2022)
- Mentored three undergraduate students in a Research internship project on "Understanding and Visualization of Real Valued Functions" (Oct 2020-April 2021)
- Completed Innovation Project SRCAS-315: DEVELOPMENT OF GARDEN-BOT: An automatic irrigation system sensing soil moisture content using self-made sensor for efficient use of resources and optimum flow of water in the fields, Mentored three undergraduate students in a research internship on the topic of "Infinite Series and Its Applications.", Under Innovation Project Scheme 2015-16, University of Delhi, Delhi.

Awards and Distinctions

- Secured Second Position in M.Phil. (Course work) the year 2005.
- Secured First University Position in M.Sc. (Final) in Delhi University in 2004.
- Secured First University Position in B.Sc. (3rd year) in Delhi University in 2002.
- Secured Second University Position in B.Sc. (2nd year) in Delhi University in 2001.
- Awarded Scholarship by Dr. B.K. Anand Benevolent Trust in the year 2001.
- Merit certificate in Mathematics Olympiad test.
- Awarded with N.S.Khare Award for Standing First in the College and First in the University in 2002.

Administrative Responsibilities
Year 2026-27 • Convenor, Attendance committee. • Member, Hostel committee. • Department Expert, Purchase committee • Member, College Research committee • Member, Placement Cell Have been an active member of Eco club, Environmental Audit, Proctorial Board, Food Committee, Entrepreneurial club and Women development cell in prior years.