




DEPARTMENT OF MATHEMATICS
DYAL SINGH COLLEGE, UNIVERSITY OF DELHI
FACULTY DETAIL



Title	Dr.	First Name	Arun Pal	Last Name	Singh	Photograph
Designation	Professor					
Address	Department of Mathematics Dyal Singh College (University of Delhi) Lodhi Road, New Delhi - 110 003					
Phone No Office	011:24367819					
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Educational Qualifications						
Degree	Institution				Year	
M.Sc. (Mathematics)	University of Delhi				1994	
Ph.D. (Mathematics)	University of Delhi				2002	
Career Profile						
Teaching Experience	Undergraduate Level – 25 yrs Postgraduate Level – 1 & 1/2 Yr					
Administrative Assignments (From 1 st July 2019 onwards)						
1. Member, PF Committee (2020-22) 2. Member, Maintenance Committee (December 2020 to till June 2023) 3. Convenor, Academic Committee (2022-24) 4. Teacher-in-Charge, Dept. pf Mathematics (2023-24)						
Areas of Interest / Specialization						
Functional Analysis and Measure Theory (Function Spaces and Inequalities)						
Subjects Taught						
Undergraduate Level - Calculus, Geometry, Analysis, Algebra, Probability and Mathematical Statistics at the level of B.A.(Honors)/B.Sc.(Honors) Mathematics, B.Sc.(Honors) Physics, B.Sc.(Honors) Chemistry, BCA/BIT, B.Sc.(General) Group 'A', B.Sc. Physical Science / Applied Physical Science / Life Science Postgraduate Level - Functional Analysis, Complex Analysis						
Research Guidance						
Supervising two Ph.D. students (NET-JRF qualified), registered from Department of Mathematics, University of Delhi, Delhi – 110 007						
Publications Profile (From 1 st July 2019 onwards)					Total Research Articles - 17	
1. Sandhya Jain, Arun Pal Singh , Megha Madan and Pankaj Jain, <i>Boundedness of Dunkl-Hausdorff operator for radially decreasing functions and monotone weights on \mathbf{R}^n</i> , J. Math. Sciences, pp18, 2024. Springer (SCOPUS listed) ISSN: DOI: doi.org/10.1007/s10958-024-06994-5. 2. Arun Pal Singh , Pankaj Jain and Rahul Panchal, <i>On quasi-grand Lebesgue spaces and Hausdorff operator</i> , Bull. Malays. Math. Sci. Soc., 2024(47:14), pp15. DOI: doi.org/10.1007/s40840-023-01618-8 (SCIE listed) IF (CA/TR-2022/20970): 1.397						

3. Arun Pal Singh , Rahul Panchal, Pankaj Jain and Monika Singh, <i>Extrapolation theorems in Lebesgue and grand Lebesgue spaces for quasi-monotone functions</i> , Trans. of A. Razmadze Mathematical Institute, Vol. 177(2), 2023, pp.14. (Published by I. Javakhishvili Tbilisi State University, Georgia). (ESCI listed) IF (CA/TR-2022/4596): NA DOI: org/10.48550/arXiv.2202.02544
4. Monika Singh, Arun Pal Singh and Pankaj Jain, “ <i>Rubio de Francia extrapolation for grand Lebesgue spaces defined on sets having possibly infinite measure</i> ”, Mathematical Inequalities & Applications, Vol. 25(4), 2022 (1079-1099), Jagreb, Croatia (An SCIE listed journal, Q2) IF (CA/TR-2021/10176): 1.250 DOI: org/10.7153/mia-2022-25-67 ISSN: 1331-4343 (print), 1848-9966 (online)
5. Arun Pal Singh , Monika Singh, Pankaj Jain and Rahul Panchal, <i>Rubio de Francia extrapolation theorem in variable Lebesgue spaces for $B_{p(\cdot)}$ weights</i> , Ricerche di Matematica, 73(2), 2021(1-19), Springer DOI: 10.1007/s11587-021-00659-0 (An SCIE listed journal, Q3) IF (CA/TR-2021/10807): 1.034
6. Pankaj Jain, Monika Singh, Arun Pal Singh and V.D. Stepanov, <i>On duality of grand Bochner Lebesgue spaces</i> , Mathematical Notes, Vol.107(2), 2020(247-256), Springer. (An SCIE listed journal, Q2) IF (CA/TR-2020/11390): 0.626
Conference Organization/ Presentations (From 1 st July 2019 onwards) Total Talks / Paper Presentations - 13
1. Delivered a talk titled “ <i>Extrapolation in Lebesgue spaces</i> ” at the International Conference on Advances in Pure & Applied Mathematics (ICAPAM) organized by the Shyam Lal College (University of Delhi), Shahdara, Delhi during February 08-10, 2024. (Duration:30 minutes, Date: February 10, 2024)
2. Participate and delivered a talk titled “ <i>Rubio de Francia Type Extrapolation</i> ” at the Tenth Congress of Romanian Mathematicians, held at the University of Pitești, Romania during June 30 - July 5, 2023. (Duration:25 minutes, Date: July 04, 2023)
3. Participated and delivered an invited talk , titled “ <i>Rubio de Francia Theory of Extrapolation</i> ” (45 minutes) in the National Conference on Harmonic Analysis and Applications (NCHAA) -2022 organized the department of Mathematics and Computing held at IIT(ISM) Dhanbad, Jharkhand during December 02-04, 2022.
4. Participated and delivered an invited talk , titled “ <i>Extrapolation in Lebesgue type spaces</i> ” in International Conference on Analysis and Applications -2021 organized Online by the Nepal Mathematical Society, Nepal during April 09-11, 2021.
5. Presented a paper titled “ <i>Rubio de Francia Extrapolation Theorem in Variable Lebesgue Spaces</i> ” in the 86 th Annual Conference of The Indian Mathematical Society – An International Meet, organized Online by the Vellore Institute of Technology, Vellore, Andhra Pradesh, during December 17 – 20, 2020.
Research Projects (Major Grants/Research Collaboration) (From 1 st July 2019 onwards)
Successfully completed a research project under the Mathematical Research Impact Centric Support (MATRICS) scheme of Science & Engineering Research Board (SERB), DST, New Delhi from July, 2020-23 (3 years, PI, Total Sanctioned Amount: Rs 6,60,000/-)
Awards and Distinctions (From 1 st July 2019 onwards)
Nil

Association With Professional Bodies
Life Member: Indian Mathematical Society Ramanujan Mathematical Society
Reviewer: Mathematical Reviews (American Mathematical Society)
Other Activities like MOOCs/ Patents etc. (From 1st July 2019 onwards)
Nil

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Signature of Faculty Member