



**DESHBANDHU COLLEGE**  
**(UNIVERSITY OF DELHI)**  
**KALKAJI, NEW DELHI - 110019**  
**Faculty Details Proforma for College Website**

Title	Dr.	First Name	Rahul	Last Name	Shukla	Photograph
Designation		Assistant Professor				
Address		Pal Vidya Mandir School Near Shitla Mata Temple Raiganj Road, Allahdadpur Gorakhpur - 273301, Uttar Pradesh.				
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Educational Qualifications						
Degree	Institution				Year	
Ph.D.	Indian Institute of Technology Roorkee, Roorkee				2021	
PG	Deen Dayal Upadhyaya Gorakhpur University, Gorakhpur				2013	
UG	St. Andrews College, Gorakhpur				2011	
Career Profile						
<p><b>VIT – AP University, Andhra Pradesh, India</b> Assistant Professor (Grade I), May 24, 2022 – Sept 10, 2022</p> <p><b>University of Delhi, Delhi, India</b> Guest Faculty, April 18, 2022 – May 13, 2022</p> <p><b>Ramjas College, University of Delhi, India</b> Assistant Professor (Adhoc faculty), Oct 06, 2021 – Dec 31, 2021</p> <p><b>GATE (2015)</b></p> <p><b>CSIR – NET (2015)</b></p>						
Administrative Assignments						
Academic Time - Table, Department of Mathematics, IIT Roorkee, Member from Jan – Dec 2018.						
Areas of Interest/Specialization						
Approximation Theory, Multivariate Approximation, Quantum Calculus						

<b>Subjects Taught</b>
Abstract Algebra, Linear Algebra, Metric Spaces, Module Theory, Multivariate Calculus, and Discrete Mathematics
<b>Research Guidance</b>
NA
<b>Publications Profile</b>
<ol style="list-style-type: none"> <li>1. <i>Some fuzzy Korovkin type approximation theorems via power series summability method</i> (with P. N. Agrawal and B. Baxhaku), <b>Soft Computing</b> (2022), Early access on <a href="https://doi.org/10.1007/s00500-022-07429-6">https://doi.org/10.1007/s00500-022-07429-6</a>.</li> <li>2. <i>On some summability methods for a q-analogue of an integral-type operator based on multivariate q-Lagrange polynomials</i> (with P. N. Agrawal and B. Baxhaku), <b>Numerical Functional Analysis and Optimization</b> 43(7) (2022), 796-815.</li> <li>3. <i>A new kind of bivariate lambda-Bernstein-Kantorovich type operator with shifted knots and its associated GBS form</i> (with P. N. Agrawal and B. Baxhaku), <b>Mathematical Foundations of Computing</b> 5(2) (2022), 157-172.</li> <li>4. <i>On q-analogue of a parametric generalization of Baskakov operators</i> (with P. N. Agrawal and B. Baxhaku), <b>Mathematical Methods in the Applied Sciences</b> 44(7) (2021), 5989-6004.</li> <li>5. <i>A tensor product of Kantorovich-Stancu type operators with shifted knots and their kth order generalization</i> (with P. N. Agrawal and B. Baxhaku), <b>FILOMAT</b> 35 (12) (2021), 4239-4255.</li> <li>6. <i>Bivariate positive linear operators constructed by means of q-Lagrange polynomials</i> (with P. N. Agrawal and B. Baxhaku), <b>Journal of Mathematical Analysis and Applications</b> 491 (2) (2020), 1-24.</li> </ol>
<b>Conference Presentations</b>
<ol style="list-style-type: none"> <li>1. Deferred statistical convergence and P-summability method for PLOs: Applications, International Conference on Special Functions and Applications: <b>XXth Annual Meeting of the Society for Special Functions &amp; Their Applications</b>, University of Kerala, Dec 22 - 24, 2021.</li> <li>2. P-summability method for a post-quantum analogue of a linear positive operator based on multivariate-Lagrange polynomials, <b>36th Annual Conference of Ramanujan Mathematical Society</b>, Amrita Viswa Vidyapeetham, India, Aug 5 - 7, 2021.</li> <li>3. P-summability method applied on an integral type operator based on multivariate q-Lagrange polynomials, <b>International Online Workshop on Approximation Theory, Institute of Mathematics of National Academic of Science, Ukraine</b>, March 19 - 21, 2021.</li> <li>4. Power series convergence method for an operator based on multivariate q-Lagrange polynomials, <b>86th Annual Conference of Indian Mathematical Society</b>, Vellore Institute of Technology, India, Dec 17 - 20, 2020.</li> <li>5. Characterization of deferred type statistical convergence and P-summability method for LPOs: An Application to q-Lagrange-Hermite operator, <b>35th Annual Conference of Ramanujan Mathematical Society</b>, Central University of Rajasthan, Ajmer, India, Dec 28 - 30, 2020.</li> <li>6. Bivariate extension of an operator based on multivariate q-Lagrange polynomials, <b>International Conference on Advances in Differential Equations and Numerical Analysis</b>, IIT Guwahati, India, Oct 12 - 15, 2020.</li> <li>7. Approximation properties of a q-analogue of alpha-Baskakov operators, <b>International Conference on Mathematical Analysis and its Applications</b>, South Asian University, New Delhi, Dec 14 - 16, 2019.</li> </ol>

Research Collaboration
<ol style="list-style-type: none"> <li><b>Dr. P. N. Agrawal</b> Professor Emeritus Department of Mathematics, IIT Roorkee Roorkee, India.</li> <li><b>Dr. Behar Baxhaku</b> Assistant Professor Department of Mathematics, University of Prishtina Prishtina, Kosovo.</li> </ol>
Awards and Distinctions
<ol style="list-style-type: none"> <li>Editorial team member of the journal <b>Researches in Mathematics (SCOPUS Indexed)</b> published by Oles Honchar Dnipro National University, Ukraine.</li> <li>Approximation Theory through Korovkin's eye: Applications of Multivariate Orthogonal Polynomials and Quantum Calculus, <b>Bilkent Analysis Seminar</b>, Bilkent University, Turkey, March 31, 2022. <b>(Invited Talk)</b></li> </ol>
Association With Professional Bodies
<i>None</i>
Other Activities
Please visit the <a href="#">webpage</a> .

*Rahul Shukla*

Signature of Faculty  
Member

- You are also requested to give your complete resume as a Word or PDF file to be attached as a link on your department page.