




## Faculty Details Proforma

<b>Title</b>	<b>Dr.</b>	<b>First Name</b>	<b>VIKAS</b>	<b>Last Name</b>	<b>DHAKA</b>	<b>Photograph</b>
<b>Designation</b>	<b>Assistant Professor</b>					
<b>Address</b>	<b>Daulat Ram College, 4 Patel Marg , Delhi-110007</b>					
<b>Email- ID</b>	<a href="mailto:vikasdhaka@dr.du.ac.in">vikasdhaka@dr.du.ac.in</a> , <a href="mailto:vdhaka84@gmail.com">vdhaka84@gmail.com</a>					
<b>Web Page</b>						
<b>Educational Qualification</b>		<b>Ph. D.</b>				
<b>Degree</b>	<b>Institution</b>				<b>Year</b>	
Ph. D.	MGS University of Bikaner (Raj.)				2013	
M.Sc.	MGS University of Bikaner (Raj.)				2005	
B.Sc.	M. D. S. UNIVERSITY, AJMER , RAJASTHAN				2003	
<b>Career Profile</b>						
<ul style="list-style-type: none"><li>Assistant Professor, Daulat Ram College, University of Delhi.</li></ul>						
<b>Administrative Assignments</b>						
<ul style="list-style-type: none"><li>Assistant academic coordinator, SOL, Daulat Ram College (Oct.,2022 to till date).</li><li>Co-Convenor, Student advisory board, (2024-25).</li><li>Co- Convenor Time Table committee, (2024 -25).</li><li>Convenor Time Table committee, (2023 -24).</li><li>Co- Convenor of B.A. Program Committee during 2022-2023.</li><li>Worked as the convenor of Affine the Mathematical society for the period 2021-2023.</li><li>Working as a core committee member for the DRC Hostel Committee 2021-24.</li><li>Worked as a member of Placement Cell in 2020-2021, 2021-2022.</li><li>Worked as a member of college website committee in 2020-2021.</li><li>Worked as an active member of Student Amenities committee 2019-2020.</li><li>Worked as an active member of Enabling Unit 2018-2019.</li><li>Worked in Prize Committee during the year 2019-2020, 2020-2021.</li></ul>						
<b>Areas of Interest/Specialization</b>						
Pure Mathematics and Applied Mathematics both.						

### Subjects Taught

Group Theory-II, Probability Theory and Statistics, Calculus, SEC-Latex and HTML Theory, Element of Analysis, Ordinary Differential Equations, SEC-Computer Algebra Systems and Related Software (Practical), Probability and Statistics (Practical), Elementary Real Analysis, Transportation and network flow problems, Metric Space, Ring theory and Linear algebra, Discrete Mathematics, Introduction to information and coding theory, Partial Differential Equations

### Publications Profile

1. **Dhaka, V.**, Nijhawan, N. Effect of change in environment on reliability growth modeling integrating fault reduction factor and change point: a general approach. *Ann Oper Res* 340, 181–215 (2024). <https://doi.org/10.1007/s10479-022-05084-6>
2. Nijhawan, N., **Dhaka, V. (2022)**. Software Reliability Modeling and Assessment Integrating Time Dependent Fault Reduction Factor in Random Environment. In: Aggarwal, A.G., Tandon, A., Pham, H. (eds) Optimization Models in Software Reliability. Springer Series in Reliability Engineering. Springer, Cham. [https://doi.org/10.1007/978-3-030-78919-0\\_7](https://doi.org/10.1007/978-3-030-78919-0_7)
3. Anu G Aggarwal, **Vikas Dhaka**, Nidhi Nijhawan, "Reliability analysis for multi-release open-source software systems with change point and exponentiated Weibull fault reduction factor". Life Cycle Reliability and Safety Engineering, Springer Singapore, vol. 6, 3-14, Jan-2017. ISSN 2520-1352.
4. N Nijhawan, AG Aggarwal, **V Dhaka**, "An SRGM for Multi-Release Open Source Software System. International Journal of Innovation and Technology Management 15 (02), 1850011, 2018. ISSN: 0219-8770.
5. Aggarwal, A.G., **Dhaka, V.**, Nijhawan, N., Tandon, A. (2019). Reliability Growth Analysis for Multi-release Open Source Software Systems with Change Point. In: Kapur, P., Klochkov, Y., Verma, A., Singh, G. (eds) System Performance and Management Analytics. Asset Analytics. Springer, Singapore. [https://doi.org/10.1007/978-981-10-7323-6\\_12](https://doi.org/10.1007/978-981-10-7323-6_12)
6. O.P. Vinocha and **Vikas Dhaka**, "Augmented product construction of Barnes-Wall lattices". Applied mathematical sciences, Vol. 5, no. 61-64, 3107-3119, 2011, ISSN 1312 885X.
7. O.P. Vinocha and **Vikas Dhaka**, "A new encoding approach: Barnes-Wall product lattices". International journal of contemporary mathematical sciences, Vol. 7, 2012, no. 34, 1653-1664, ISSN 1312-7586.

8. O.P. Vinocha and **Vikas Dhaka**, “Generalization of all similar constructions of extended binary Golay code”. International journal of applied mathematics and computation, Vol. 4(1), 2012, 105-114, ISSN 0974 - 4665 (Print) 0974 - 4673 (Online).
9. **Vikas Dhaka** and O.P. Vinocha, “On construction of Barnes-Wall lattices”. Journal of mathematical and computational science, (3) 2013, No. 5, 1271-1285, ISSN 1927-5307.

**Awards and Distinctions**

**Qualified NET-JRF.**  
**AIR 92 in GATE 2007.**