


## CurriculumVitae

Title	Dr	FirstName	Shruti	LastName	Tohan	
Designation	Assistant Professor					
Department	Mathematics					
Institutional Email Address	skapoor@jmc.du.ac.in					
<b>EDUCATION</b>						
Degree	Institution	Year	Details			
PhD	IIT Delhi	2026	Thesis title: Study of Fluid Queues and Its Applications			
<b>CAREERPROFILE</b>						
Organisation /Institution	Designation	Duration	Role			
Jesus and Mary College	Assistant Professor	July 2009 to Present (15 years)	Teaching and Mentoring			
PTC (formerly Servigistics)	Quality Assurance Engineer	July 2008 to June 2009				
AREAOF INTEREST : Numerical methods, Probability theory and statistic, Fluid queues						
<b>TEACHINGEXPERIENCE(Subjects/Courses taught)</b>						
Subjects taught:						
I. Numerical Methods						
II. Probability and Statistics						
III. Graph theory						
IV. Latex and HTML						

## V. Partial Differential Equations

Courses: B.Sc(H) Maths 1st, 2nd, 3rd year; B.A(Prog.) 1st, 2nd, 3rd year. B.El.Ed III

## HONORS& AWARDS

- All India Rank 252 in GATE (Graduate Aptitude Test in Engineering), 2008
- Qualified NET (National Eligibility Test for Asst. Professor) 2008 with JRF (Junior Research Fellowship)

## PUBLICATION DETAILS

### Journal Articles:

- Kapoor, Shruti, and Dharmaraja Selvamuthu. "On the exact transient solution of fluid queue driven by a birth death process with specific rational rates and absorption." *Opsearch* 52, no. 4 (2015): 746-755
- Kapoor, Shruti, Selvamuthu Dharmaraja, and Viswanathan Arunachalam. "Transient solution of fluid queue modulated by two independent birth-death processes." *International Journal of Operational Research* 36, no. 1 (2019): 1-11
- Kapoor, Shruti, and Selvamuthu Dharmaraja. "Steady state analysis of fluid queues driven by birth death processes with rational rates." *International Journal of Operational Research* 37, no. 4 (2020): 562-578
- Kapoor, Shruti, and S. Dharmaraja. "Applications of Fluid Queues in Rechargeable Batteries." In *Applied Probability and Stochastic Processes*, pp. 91-101. Springer, Singapore, 2020
- S. Dharmaraja and Kapoor, Shruti, "On the time-dependent solution of fluid models driven by an M/M/1 queue using a probabilistic approach." *International Journal of Operational Research*, 2023 Vol.46 No.1, pp.65 - 72

### OTHER DETAILS:

- Member of NIRF 2022-24
- Convenor help desk for admission since 2022
- Member of Convocation committee- 2021-23
- Convenor of Western Dance Society-2017-2022
- Convenor of Indian Cultural Society-2022-2024
- Association Incharge, Dept. of Mathematics-May 2022-April 2024
- Teacher-In-Charge, Dept. of Mathematics-May 2024-till date

Orientation and Refresher Courses:

- Summer faculty research fellow program, IIT Delhi, 13-05-2010 to 16-07-2010, IIT Delhi under Continuing Education Program
- Attended and completed SAP 01 and SAP B1 course in college to train students in SAP, JMC, December 2014, AMI Tech Pvt. Ltd.
- Workshop on ICT usages in Teaching, CPDHE, 1-09-2015 to 8-09-2015, UGC-HRDC
- Participated in capacity building workshop at Institute of lifelong Learning on e-content creation, held on 20th January 2016.
- 5th three- week Special Summer School, Jamia Millia Islamia, New Delhi, 26-05-2016 to 15-06-2016, UGC-HRDC
- 118th Four-Week Orientation Programme, Jamia Millia Islamia, New Delhi, 23-05-2017 to 19-06-2017, UGC-HRDC
- One Week Professional Development Programme, Jamia Millia Islamia, New Delhi, 24-12-2018 to 31-12-2018, UGC-HRDC
- 2-Week Faculty Development Programme on “Research Methodoly”, Teaching Learning Center, Ramanujan College, University of Delhi, 1-10-2020 to 15-10-2020, Ministry of Human Resource Development Pandit Madan Mohan Malviya National Mission on Teachers and Teaching