

## CURRICULUM VITAE

**Name** : **Dr. Sungeeta Singh**

**Date of Birth** : **20/12/1965**

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### **EDUCATIONAL QUALIFICATIONS**

<b>S.No.</b>	<b>Examination</b>	<b>Board/Univ</b>	<b>School/College</b>	<b>Year of Passing</b>	<b>Percentage Marks</b>
<b>1</b>	<b>AISSCE</b>	<b>CBSE</b>	<b>Delhi Public School, R K Puram</b>	<b>1983</b>	<b>74.25% (Distinction in Mathematics 88%)</b>
<b>2</b>	<b>B.A. Hons. (Mathematical Statistics)</b>	<b>Delhi Univ.</b>	<b>Lady Shri Ram College of Women, Delhi</b>	<b>1986</b>	<b>71.8%</b>
<b>3</b>	<b>M.A. (Mathematical Statistics)</b>	<b>Delhi Univ.</b>	<b>Hindu College, Delhi</b>	<b>1989</b>	<b>65.4%</b>
<b>4</b>	<b>M.Phil. (Mathematics)</b>	<b>Delhi Univ.</b>	<b>Delhi Univ.</b>	<b>1994</b>	<b>81%</b>

	<b>Statistics)</b>				
<b>5</b>	<b>Ph.D. (Statistics)</b>	<b>I.I.T. Delhi</b>	<b>I joined th Ph.D programme at IIT, Delhi in July 1991 and I have been awarded my Ph.D degree in August 1999.</b>		

**:2:**

**TEACHING EXPERIENCE :Total 18 Years Post PhD 22Years Post MPhil**

<b>S.No.</b>	<b>Institute</b>	<b>Year</b>	<b>Branch</b>	<b>Affiliate/ Univ</b>	<b>Courses Taught</b>	<b>Position Held</b>
<b>1</b>	<b>I.T.T.,Delhi</b>	<b>1992 - 1996</b>	<b>B.Tech &amp; M.Sc</b>	<b>I.I.T., Delhi</b>	<b>Tutorial classes in Probability and Statistics and Calculus</b>	<b>UGC Research Scholar (Statistics)</b>
<b>2</b>	<b>Boston</b>	<b>1998</b>	<b>BBA/B</b>	<b>Jiwaji</b>	<b>Numeric</b>	<b>Visiting</b>

	<b>College for Professional Studies, Gwalior</b>	<b>- 1999</b>	<b>CA and B.Sc (computer Science)</b>	<b>Univ., Gwalior</b>	<b>al &amp; Statistical Analysis &amp; Business Statistics</b>	<b>Lecturer (Maths / Statistics)</b>
<b>3</b>	<b>Rustamji Institute of Technology , BSF Academy, Takanpur, Gwalior</b>	<b>1999 - 2000</b>	<b>BE</b>	<b>Rajiv Gandhi Proudयोगी Vishwavidyalaya, Bhopal</b>	<b>Differential and Integral Calculus</b>	<b>Lecturer (Mathematics/Statistics)</b>
<b>4</b>	<b>Boston College for Professional Studies, Gwalior</b>	<b>2000 - 2002</b>	<b>BCA/MCA/B.Sc. (Computer Science)</b>	<b>Jiwaji University</b>	<b>Discrete Mathematics/Computer Oriental Numerical Analysis/Operation Research/Statistics</b>	<b>Lecturer (Mathematics/Statistics)</b>
<b>5</b>	<b>College of Engg. &amp; Technology , IILM Academy of</b>	<b>2002 - 2004</b>	<b>B.Tech/MCA</b>	<b>U.P. Technical University</b>	<b>Biostatistics/Mathematics</b>	<b>Senior Lecturer (Maths/Statistics)</b>

	<b>Higher Learning</b>					
<b>6.</b>	<b>Institute of Technology and Management University, Gurgaon, Haryana</b>	<b>2004 till 2010</b>	<b>B.E./D O E A C C B level</b>	<b>M.D.U, Rohtak/ Presently UGC Recognised</b>	<b>Numerical Methods/ Statistics/ Discrete Structures/ Automata Theory/ Numerical Methods Lab Using C.</b>	<b>ASSISTANT PROFESSOR (Selection Grade) (Maths/ Statistics)</b>

**Currently I am working at Amity University, Manesar, Haryana as a Professor in Department of Mathematics from August 2010 to date (7 years approx).**

**I have taught BTech/MTech/MCA and MSc/BSc(Hons.) various Mathematics and Statistics Courses. Apart from Coordinating the Affairs of the Department as the HOD since 2011.**

**I have taken the lead in Curriculum Development in BSc(Hons.)/MSc Statistics and Mathematics Courses as well as developing a new interdisciplinary minor track in Data Analytics for all students at Amity University Haryana.**

**I am presently guiding six PhD students in Operations Research, Data Analysis, Forecasting Techniques and Boolean Algebra.**

**Apart from this several MSc Summer Internship projects and MSc Final Year Projects are also being carried out under my supervision.**

**COMPUTER KNOWLEDGE:**

- a)Proficiency in Fortran 77 and C language,MS Office and Excel.**
- b)Good Knowledge of Matlab's Statistical Toolbox as well as Programming in Matlab.**

**AWARDS:**

**Cleared UGC NET-JRF Dec 1989 and awarded the Junior Research Fellowship(JRF) by UGC in 1991 to pursue PhD from IIT Delhi.**

**RESEARCH EXPERIENCE : I have been actively involved in research since 1989. My M.Phil. dissertation work was on Random walk and Distributions of Rank Order Statistics. My Ph.D Thesis work was on Some new discrete distributions in Statistics and their Application to real life data via numerical simulation techniques.Currently I am working in the area of Optimization Techniques.**

**PhD Guidance :**

**1)I have Co guided a PhD ThesisOn "Occupational Stress in IT/ITES Companies" from Indian School of Mines Dhanbad awarded to Ms Seema Bhatt in 2010.**

**2)I am presently guiding six PhD Students,one in Discrete Mathematics,three in Operations Research, two in Statistics .**

**CONFERENCE ATTENDED: 1)I presented my first paper in the"Third International Conference onLattice Path Counting andApplications" held in Delhi University on January 12-13-1993.**

**2)Therafter, I have been an active member,organising committee of several**

**conferences at ITM College now (University).**

**3)I attended,in January 2013, the National Science Congress organised byThe Delhi Chapter Of Indian Science Congress Association Held at India Education Centre Lodhi Road,New Delhi.**

**4)Recently in April 2013 I attended the National Conference on Recent Trends in Operations Research held at Amity School of Engg and Technology Bijwasan to give an Invited Talk on “q Analogues of Discrete Distributions and their Applications”.**

**5)I was invited as a Session Chair in IEEE InternationalConference 2014 at ITM University,Gurgaon.**

#### **Workshop/FDP**

**1)Attended a ONE week FDP on Effective Lecture Design and Delivery at ITM Gurgaon.**

**2)Attended a 10 days FDP on MATLAB at ITM Gurgaon.**

**3)Organised a Spiritual Workshop by the All World Gayatri Parivar for students of Amity University Haryana Nov 2012.**

**4)Attended a 1 day Workshop on AUTOGRAPH Software conducted by Mr Douglas Butler,MD,Autograph UK At IIT Delhi,on December 4,2014.**

**5)Attended a 3 day QIP Short term course on Sustainable Operations managementat**

**Department of Management Studies IIT  
Delhi from 4<sup>th</sup> to 6<sup>th</sup> June 2015.**

**6)Conducted a session on Statistical  
Toolbox using Matlab in Amity University  
Gurgaon in 2012.**

**7)Attended a workshop on Maple in June  
2017 conducted by binary Semantics  
Gurgaon.**

### **CONFERENCES AND RESEARCH PUBLICATIONS**

**1)Presented my first research paper entitled"On some Discrete  
distributions related to a Random Walk" in the Third International  
Conference on Lattice Path Counting in Jan 1994 at Delhi  
University,India.**

**2)Thesis entitled"Some generalized discrete and q-discrete  
probability distributions"PhD thesis,IITDelhi,1998 available at  
[eprint.iitd.ac.in/handle/2074/4786](http://eprint.iitd.ac.in/handle/2074/4786).**

**3)Presented a paper entitled "On q analogues of Discrete  
Distributions and their Applications" in National Conference on  
Recent Trends in Operations Research in April 2013 held at  
Amity School of Engg and Technology,Bijwasan.**

**4)Research paper on "Fuzzy Fixed Charge Transportation" was  
selected for a Poster Presentation in IEEE Conference on Feb21-  
22,2014 at ITM University Gurgaon.**

**5)A Review paper on Fixed Charge Transportation Problem was  
also presented on Feb 22,2014 at a National Conference in BITS  
Pilani.**

**6)Research paper"Review On Fuzzy Extensions of Multi-index Transportation Problem" is published in Yugoslav Journal of Operations Research (YUJOR)Vol. 27,no1 p3-29,ISSN 2334-6043,2017.(SCOPUS INDEXED)**

**7)Research paper on "Fuzzy Bicriteria problem of Clustering Ration Shops to Warehouse Sites" published in International Journal of Knowledge and Research in Management and E-Commerce (IJKRM),Volume 5,no3,pp1-7,2015.**

**8)Research Paper entitled"Pareto Optimal Solution of BiCriteria Fixed Charge Transportation Problem"has been published in International Conference REDSET 2015 Proceedings. It was presented in the conference held on 17-18<sup>th</sup> October 2015 at GD Goenka University Gurgaon.**

**9)Research Paper entitled "Pareto Optimal Solution for BiCriteria Fixed Charge Transportation Problem"has been published in International Journal of Applied Engineering Research(IJAER,Special Issue Vol10,No 94,pp32-37,2015(SCOPUS INDEXED).**

**10).Research Paper entitled "A Survey on Bulk Transportation Problem"has been published in International Journal of Advanced Research(IJAR)Vol 5(5),pp1240-1245,2017.(UGC APPROVED)**

**11). Research Paper entitled "Efficient solution of a Multi-Objective Transportation Problem has been accepted for publication by International Journal of Advanced Research(IJAR) in June 2017.(UGC APPROVED)**

**12). Research Paper entitled "A Simple Heuristic Algorithm to solve the Bulk Transportation Problem"has been accepted for publication in International Journal of Scientific and Engineering Research(IJSER) in 2017.(UGC APPROVED)**



**13). Research Paper entitled "AN INTERVAL FUZZY BICRITERIA SHORTEST PATH PROBLEM USING A MODIFIED HUNGARIAN ALGORITHM" has been accepted for publication by International Journal of Advances in Engineering Sciences (IJAES) in June 2017.**

**14). Research Paper entitled "An Efficient Heuristic to Solve a Time Minimizing Bulk Transportation Problem" has been communicated to Asia Pacific Journal of Operations Research in 2017(SCOPUS INDEXED).**

**15). Research Paper entitled "An Efficient Heuristic to Solve a Time Minimizing Bulk Transportation Problem" has been communicated to Asia Pacific Journal of Operations Research in 2017(SCOPUS INDEXED).**

**16). Research Paper entitled "A Fuzzy Time-Cost Shortest Path Algorithm "has been communicated to a conference REDSET 2017.**

**17). Research Paper entitled "An Efficient Solution of a Fixed Charge Bi-Criteria Transportation problem" has been communicated to a conference REDSET 2017.**

#### **REFERENCES:**

**1. Prof. B R Handa,  
Retired Professor Emeritus,  
Department of Mathematics,  
Indian Institute of  
Technology,  
New Delhi-110 016.  
brhanda@hotmail.com  
Mob:9873016010**

**2.Prof.RC Sharma,  
Founder Vice Chancellor(Amity University Gurgaon),  
Advisor to Chancellor(Amity University Gurgaon),  
Professor Emeritus(Amity Business School),  
[rcsharma@ggn.amity.edu](mailto:rcsharma@ggn.amity.edu)  
Mob:9810125544**

**3.Prof.R K Malik,  
Head Of Department(Civil Engg Deptt),  
Amity School of Engg and Technology,  
Amity University Gurgaon,Haryana.**

**[rkmalik@ggn.amity.edu](mailto:rkmalik@ggn.amity.edu)**

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**1.Professor B R Handa has been my PhD Supervisor and mentor  
at the prestigious Indian Institute of Technology,Delhi(IITD);**

**2.Professor RC Sharma, currently Emeritus Professor, is the  
founder Vice Chancellor of Amity University Gurgaon Haryana;**

**3.Professor R K Malik is the HOD of Civil Engg,Amity University  
Haryana, where I have been teaching Engg Maths, Numerical  
Analysis Theory and Numerical Analysis Lab currently.**

***Dr. Sungeeta Singh***