

**CURRICULUM VITAE OF
Prof. (Dr.(Mrs.)) PREETI WANTI SRIVASTAVA**

Name	Dr.PreetiWanti Srivastava
Designation	Professor
Address	Department of Operational Research, Faculty of Mathematical Sciences, New Academic Block, 2 nd Floor, Room No. 211, University of Delhi, Delhi-7
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EDUCATIONAL QUALIFICATIONS :

Degree	Institution	Year
Ph.D.	University of Delhi Thesis topic: Some One-Sample and Two-Sample Tests in Reliability Theory	2000
M.Phil.	University of Delhi Dissertation Topic: Tests for Exponentiality Against Aging	1992
PG	Hindu college, University of Delhi, Delhi-7 Subject: Statistics	1989
UG	Sri Venkteswara College, University of Delhi, Delhi-7 Subject: Statistics	1987
Any other qualification	Qualified joint CSIR/UGC test for JRF and Eligibility for lecturership held in June, 1990, in Statistics . Awarded Certificate of Merit for being among the six top candidates in Joint CSIR-UGC test .	1990

CAREER PROFILE

Organisation /Institution	Designation	Duration	Role
Lady Shri Ram College for Women, University of Delhi, Delhi	Lecturer	6 months and 8 days (ad-hoc basis) 21 days (Temporary)	Teaching and Research
Ramjas College, University of Delhi, Delhi	(i) As Lecturer (06.08.1991 to 02.01.1998) (ii) As Lecturer in Sr. Scale (03.01.1998 – 30.08.2000) (iii) As Reader (31.08.2000 – 08.01.2002)	9 years (6.8.91-8.1.02)	Teaching and Research
Deptt. of Statistics, University of Delhi, Delhi	Under Co-operative Teaching Scheme	1991-2001	Teaching and Research
Deptt. of Operational Research, University of Delhi, Delhi	Reader, Associate Professor, Professor	9.01.02 to 31/12/2005, 1/1/2006 to 31/12/2010, 1/1/2011 to date	Teaching and Research
Applied Operational Research, University of Delhi, Delhi, South Campus	Under Co-operative Teaching Scheme	2002 to date	Teaching

AREAS OF INTEREST / SPECIALIZATION

Reliability Theory , Quality Control, Decision Theory

SUBJECTS TAUGHT

Name of Univ./College/Institution	Classes Taught
LadyShriRamCollege for Women, University of Delhi, Delhi	B.Sc. (H) Statistics
Ramjas College, University of Delhi, Delhi	B.Sc. (H) Statistics
Deptt. of Statistics, University of Delhi. Delhi	M.Sc. (Pt. I) Statistics (Practicals (1991-1995),Probability Theory (1995-2001))
Deptt. of Operational Research, University of Delhi, Delhi	M.Sc.: (Statistical Methods,AppliedStatistics,Statistics-I, Theory of Reliability, Decision Theory) M.Phil : (Theory of Reliability, Game and Decision Theory) Ph.D : (Area of Specialization : Reliability theory)
Applied Operational Research, University of Delhi South Campus	M.Sc. (Industrial Statistics, Statistics-I)

RESEARCH GUIDANCE

I. Supervision of awarded Doctoral Thesis: 4

- (i) Ruchi Shukla : Some Optimum Accelerated Life Testing Models in Reliability
- (ii) Nidhi Jain: Some Contributions to Reliability Analysis of Repairable Systems
- (iii) Neha Mittal : Some Optimum Fully and Partially Accelerated Life Testing Models in Reliability
- (iv) Deepmala Sharma : Some Optimum Accelerated Life Test Sampling Plans

II. **Supervision of Doctoral Thesis** – submitted : 1, Pre-Ph.D. Presentation held: 1, under progress : 1

III. Supervision of awarded M.Phil dissertations :

- (i) Deepmala Sharma : Mean-Variance Tradeoffs in Discrete Time Markov Decision Processes : A Review
- (ii) Manjul Pant : Aggregation of Experts' Opinion : A Review
- (iii) Vijay Kumar Tiwari : Decision Analysis using Expected Value of Sample Information : A Review
- (iv) Manisha:Optimum Accelerated Degradation Testing Models in Reliability : A Review
- (v) Savita:Accelerated Life Test Sampling Plans
- (vi) Anushree Das:Optimal Burn-in Techniques in Reliability: A Review
- (vii) Harsha Dudhoria: Reliability Analysis of One-Shot Devices: A Review
- (viii)Sugandh Aggarwal: Two-Dimensional Warranty Policies for Repairable Systems : A Review

- (ix) Kushal Gambhir :Analysis of Reliability Systems subject to Defense and Attack : A Review
- (x) Rustom Kumar :Reliability Modelling of Multistate Systems: A Review
- (xi) Satya Rani :Reliability Demonstration Testing for Nonrepairable Systems : A Review

IV. Supervision of M.Phil Dissertations - under progress : 1

PUBLICATIONS PROFILE

1. Research Papers Published In Refereed/Peer Reviewed Journals:

Srivastava, P.W. and Savita (2018). An Accelerated Life Test Plan for a Two-Component Parallel System under Ramp-Stress Loading using Masked Data, **International Journal of Quality and Reliability Management**, Vol. 35, Issue 3, 811-820 (Emerald Group Publishing Ltd., ISSN: 0265-671X, Indexed in Scopus, H Index: 67).

Srivastava, P.W. and Manisha (2017). A Zero Failure ADT under Ramp Soak-Stress Loading, **Journal of Risk and Reliability**, 1-12, DOI:10.1177/1748006X17743136, Online publication date 17-Dec.-2017(Sage Journals, ISSN: 1748-006X, Impact Factor:1.084).

Srivastava, P.W. and Gupta, T. (2017), Accelerated life test plan under modified ramp-stress loading with two stress factors, **International Journal of Reliability and Applications**, Vol. 18, No. 2, 21-24 (Published June 2016, Korean Reliability Society, ISSN 1598-0073).

Srivastava, P.W. and Gupta, T. (2017), Optimum modified ramp-stress ALT plan with competing causes of failure, **International Journal of Quality and Reliability Management**, Vol. 34, Issue 5, 733-746 (Emerald Group Publishing Ltd., ISSN: 0265-671X, Indexed in Scopus, H Index: 67).

Srivastava, P.W., Manisha, and Agarwal, M.L. (2016). Design of bivariate step-stress partially accelerated degradation test plan using copula and gamma process, **International Journal of Reliability and Applications**, Vol. 17, No. 1, 21-49 (Published June 2016, Korean Reliability Society, ISSN 1598-0073).

Srivastava, P.W. and Sharma, D. (2016). Bilevel-programming based failure-censored ramp-stress ALTSP for the log-logistic distribution with warranty cost, **International Journal of Reliability and Applications**, Vol. 17, No. 1, 85-105 (Published June 2016, Korean Reliability Society, ISSN 1598-0073).

Srivastava, P.W. and Savita (2016). Design of Ramp-Stress Accelerated Life Test Plans for a Parallel System with two Dependent Components, **International Journal of Performability Engineering** Vol. 12, No. 2, 241-248. (Published May 2016, RAMS Consultants, H-index 5, ISSN: 09731318).

Srivastava, P.W. and Gupta, T. (2016). A Time-Censored Zero Failure ALT Plan under Triangular Cyclic-Stress Loading, **International Journal of Performability Engineering**, Vol. 12, No. 2, 121-130. (Published March 2016, RAMS Consultants, H-index 5, ISSN: 09731318).

Srivastava, P.W. and Gupta, T.(2015). Optimum Time-Censored Modified Ramp-Stress ALT for the Burr Type XII Distribution with Warranty: A Goal Programming Approach. *International Journal of Reliability. Quality and Safety Engineering*, **Vol. 22, No. 3 (2015) 1550012 (23 pages)**, (World Scientific, Print ISSN: 0218-5393 Online ISSN: 1793-6446, DOI: 10.1142/S0218539315500126).

Srivastava, P.W. and Manisha (2015). Optimum Step-Stress PADT Plan Using Wiener Process. *International Journal of Performability Engineering*, **Vol. 11, No. 5, 443-452.** (RAMS Consultants, ISSN: 09731318, H-index 5).

Srivastava, P.W. and Gupta, T.(2015). Optimum Time-Censored Modified Ramp-Stress ALT for the Burr Type XII Distribution with Warranty: A Goal Programming Approach. *International Journal of Reliability. Quality and Safety Engineering*, **Vol. 22, No. 3 (2015) 1550012 (23 pages)**, (World Scientific, Print ISSN: 0218-5393 Online ISSN: 1793-6446, DOI: 10.1142/S0218539315500126).

Srivastava, P.W. and Sharma,D. (2015).Optimum Time-Censored Step-Stress PALTSP with Competing Causes of Failure Using Tampered Failure Rate Model. *International Journal of Performability Engineering*, **Vol. 11, No. 1, 71-80.** (RAMS Consultants, ISSN: 09731318, H-index 5).

Srivastava, P.W. and Sharma, D. (2015). Optimum time-censored simple ramp-stress accelerated life test sampling plan for the log- logistic distribution. *Journal of Quality in Maintenance Engineering*, **Vol. 21(1), 112 - 132 (Emerald Insight, ISSN: 1355-2511).**

Srivastava, P.W. and Gupta, T. (2014). Optimum time-censored ramp soak-stress ALT plan for the Burr Type-XII distribution, *International Journal of Reliability and Applications*. **Vol. 15(2), 125-150 (Korean Reliability Society, ISSN 1598-0073).**

Srivastava, P.W. and Sharma,D. (2014). Bilevel Programming Based Time-Censored Ramp-Stress ALTSP with Warranty Cost. *International Journal of Performability Engineering*, **Vol. 10(3), 281– 290 (RAMS Consultants, ISSN: 09731318).**

Srivastava, P.W. and Sharma, D. (2014). Optimum Time-Censored Constant-Stress PALTSP for the Burr Type XII Distribution using Tampered Failure Rate Model, *Journal of Quality and Reliability Engineering* (Print ISSN: 2314-8055, Online ISSN: 2314-8047, DOI: 10.1155/ 3583).

Srivastava, P.W. and Mittal, N. (2014). Optimum Multi-Objective Modified Step-Stress Accelerated life Test Plan for the Burr Type-XII Distribution. *International Journal of Reliability and Applications*, **Vol. 15(1), 23-50, Korean Reliability Society, ISSN 1598-0073).**

Srivastava, P.W. and Sharma, D. (2014). Bilevel Programming Based Step-Stress PALTSP with Warranty Cost using Tampered Failure Rate Model. *International Journal of Reliability, Quality and Safety Engineering*, **Vol. 21, No. 5 1450022 (23 pages)** (World Scientific, Print ISSN: 0218-5393 Online ISSN: 1793-6446, DOI: 10.1142/S0218539314500223).

Srivastava, P.W. and Jain, N.(2014). Optimum constant-stress partially accelerated life test for k identical repairable systems..**International Journal of Operational Research/Nepal,Vol.3,61-74, ISSN 2091-1521.**

Srivastava, P.W., Shukla, R., and Kanwar Sen (2014). Optimum Simple Step-Stress Test with Competing Risks for Failure using Khamis-Higgins model under Type-I Censoring. **International Journal of Operational Research / Nepal,Vol.3, 75-88, ISSN 2091-1521.**

Srivastava, P.W. and Jain, N. (2013). Bayesian analysis of a repairable system subject to overhauls with bounded failure intensity. **International Journal of Reliability and Applications, Vol. 14(2), 55-70 (Korean Reliability Society, ISSN 1598-0073).**

Srivastava, P.W. and Mittal, N. (2013 a). Optimum multi-objective modified constant-stress ALT plan for the Burr type-XII distribution with type-I censoring. **Journal of Risk and Reliability, Vol. 227(2), 132-143 (Sage Journals, ISSN: 1748-006X , Impact Factor :0.393).**

Srivastava, P.W. and Mittal, N. (2013 b). Optimum constant-stress partially accelerated life tests for the truncated logistic distribution under time constraint. **International Journal of Operational Research / Nepal, Vol. 2, 33-47.**

Srivastava, P.W. and Mittal, N. (2013 c). Failure-censored Optimum Constant-stress Partially Accelerated Life Tests for the Truncated Logistic life distribution. **Opinion - An International Journal of Business Management, Special Issue on Role of Statistics in Management and Allied Sciences,Vol. 3 No. 2 Dec. 2013, 41-66 (e - ISSN: 2277 - 4637 and p - ISSN: 2231 - 5470).**

Srivastava, P.W. and Mittal, N. (2012 a). Optimum multi-level ramp-stress ALT plan with multiple-objectives for burr type-XII distribution under type I censoring. **International Journal of Reliability, Quality and Safety Engineering , Vol. 19, No.2 1250006 (17 pages) (World Scientific Publishing Co., ISSN: 02185393, DOI :10.1142/S0218539312500064) .**

Srivastava, P.W. and Mittal, N. (2012 b) . Srivastava, P.W. and Mittal, N. (2012 b). Optimum multi-objective ramp-stress accelerated life test with stress upper bound for burr type-XII distribution. **IEEE Transactions on Reliability , Vol.61, Issue 4, 1030-1038 (IEEE Reliability Society, ISSN: 0018-9529, Impact Factor : 1.285) .**

Srivastava, P.W. and Mittal, N. (2012 c). Optimum failure-censored step-stress PALT for the truncated logistic life distribution. **International Journal of Reliability and Applications, Vol.13(1), 19-35 (Korean Reliability Society, ISSN 1598-0073) .**

Srivastava, P.W. and Jain, N. (2011a). Reliability Prediction during development phase of a system. **International Journal of Quality Technology and Quantitative Management, Vol. 8, No. 2, 111-124 (NCTU Publication Press and FCU Press, ISSN 1684-3703).**

Srivastava, P.W. and Jain, N. (2011 b). Optimum Ramp-Stress Accelerated Life-Test for m identical repairable systems. *Applied Mathematical Modelling*, Vol. 35, 5786-5793 (Elsevier Journals, ISSN: 0307-904X, *Impact Factor: 1.579*, *5-Year Impact Factor: 1.534*).

Srivastava, P.W. and Jain, N. (2011 c). Bayesian Prediction of the Overhaul Effect on a Repairable System with Bounded Failure Intensity. Presented at **the International Congress on Productivity, Quality, Reliability, Optimization and Modelling, February 7-8, 2011** and published in *International Journal of Quality, Statistics and Reliability*, Vol. 2011, Article ID 681210, 8 pages (DOI: 10.1155/2011/681210).

Srivastava, P.W. and Jain, N. (2010). A Bounded Intensity Process Reliability Growth Model in a Bayes-Decision Framework. *Economic Quality Control*, Vol. 25, Issue 1, 109–125 (De Gruyter Journal, ISSN : 0940-5151).

Srivastava, P.W. and Mittal, N. (2010). Optimum Step-Stress Partially Accelerated Life Tests for Truncated Logistic Distribution with censoring. *Applied Mathematical Modeling*, Vol. 34, Issue 10, 3166-3178 (Elsevier Journals, ISSN: 0307-904X, *Impact Factor: 1.371*, *5-Year Impact Factor: 1.502*).

Srivastava, P.W. and Shukla, R. (2009). Optimum simple ramp test for the log-logistic distribution with censoring. *Journal of Risk and Reliability*, Vol.223 (4) 373-379 (Sage Journals, ISSN: 1748-006X, *Impact Factor :0.393*).

Srivastava, P.W. and Shukla,R.(2008). A log-logistic step-stress model. *IEEE Transactions on Reliability*, Vol. 57, No. 3, 431-434 (IEEE Reliability Society, ISSN: 0018-9529, *Impact Factor :1.3*).

Srivastava, P.W. and Shukla,R.(2008).Optimum log-logistic step-stress model with censoring. *International Journal of Quality and Reliability Management*, Vol. 25 No. 9, 968-976 (Emerald Journals, ISSN: 0265-671X).

Kanwar Sen and Srivastava, P.W. (2003). Testing exponentiality against new better than used of specified age with randomly right censored data. *Journal of Indian Statistical Association*, Vol. 41, 29 – 45 (Indian Statistical Association, ISSN: 0537-2585).

Kanwar Sen and Srivastava, P.W. (2001). A test for exponentiality against new better than used in renewal mean residual life alternative. *Journal of Indian Society of Probability and Statistics*, Vol. 5, 31-50.

Kanwar Sen and Srivastava, P.W. (2001). A test for exponentiality against decreasing variance of residual life alternative, *IAPQR Transactions*, 26(2), 91-97 (Connect Journals, ISSN :0970-0102).

Kanwar Sen and Srivastava, P.W. (2001). A test for exponentiality against NBUV- $\{t_0\}$ alternative. *Journal of the Indian Statistical Association*, Vol. 39, 33-50 (Indian Statistical Association, ISSN: 0537-2585).

Kanwar Sen and Srivastava, P.W. (2000). Tests for exponentiality against new better than old in expectation and new better than some used in expectation alternatives. *Communications in Statistics – Theory and Methods*, 29(1), 157-180 (Taylor and Francis Series, ISSN: 0361-0926, Impact Factor: 0.24).

Kanwar Sen and Srivastava, P.W. (1999). Some tests for exponentiality against NBU and NBUE with respect to a distinguished set alternatives. *IAPQR Transactions*, 24(1), 45-64 (Connect Journals, ISSN :0970-0102).

Kanwar Sen and Srivastava, P.W. (1998). Testing whether X is larger than Y in mean residual life ordering and variance residual life ordering. *IAPQR Transactions*, 23(1), 47-59 (Connect Journals, ISSN :0970-0102).

Kanwar Sen and Srivastava, P.W. (1998). A test for exponentiality against decreasing mean residual life in harmonic average alternative. *Journal of the Indian Statistical Association*, 37, 37-50 (Indian Statistical Association, ISSN: 0537-2585).

Kanwar Sen and Srivastava, P.W. (1995). Testing whether X is larger than Y in variable ordering. *Journal of Statistical Studies* , 15, 9-16 (Jahangirnagar University, Bangladesh, ISSN :1022-4734).

2. Other Publications (Edited Works, Book Reviews, Festschrift Volumes, Etc.):

Book:

Srivastava, P.W. (2017). Optimum Accelerated Life Testing Models With Time-varying Stresses, **World Scientific Publishing Europe, London.**

Review of chapters in e-book on Applied Decision Making under National Science Digital Library Project of NISCAIR (National Institute of Science, Communication and Information Sources).

CONFERENCE ORGANIZATION/ PRESENTATIONS ETC. (IN THE LAST FOUR YEARS)

Invited as visiting fellow in Department of Statistics, Panjab University, Chandigarh , March 15 - 21, 2018.

Delivered invited talk on Accelerated Life Tests with Dependent Competing Risks using Tampered Failure Rate Models at IISA 2017 held in Hyderabad during Dec. 27-30, 2017.

Delivered invited talk on Bivariate Accelerated Life Test Model With Time Varying Stress at **IISA 2015** organized by Department of Statistics and Center for Advanced Studies, Savitribai Phule, Pune University. India from Dec.. 20-24, 2015.

Delivered invited talk on **Optimum Cyclic Stress Accelerated Life Test Plans** at National Conference on Advances in Theoretical and Applied Statistics organized by Department of Statistics, Panjab University, Chandigarh, India from Feb. 12-13, 2015.

Delivered invited talk on **Optimum Time-Censored Accelerated Life Tests with Time-Varying Stresses for One Test Chamber** in technical session on the "Reliability Theory and its Applications" at the International Statistics Conference (ISC) 2014 organized by Institute of Applied Statistics Sri Lanka (IASSL) held in Colombo, Sri Lanka from December 28-30, 2014.

Participated in **QUPRAC-2014** organized by **FICCI** in New Delhi during **Feb. 3-4,2014**.

Participated and presented research paper titled "**Optimum Time-Censored Ramp-Stress ALTSP with Periodic Inspection and Warranty**" in "**INTERNATIONAL WORKSHOP ON RELIABILITY AND SURVIVAL ANALYSIS**" organized by Department of Statistics , Cochin University of Science and Technology during **Dec. 31,2013 – Jan.2, 2014**

RESEARCH PROJECTS (MAJOR GRANTS/RESEARCH COLLABORATION)

DST-Purse Grant (6,25,000/- out of 25,000,00/- allocated to the Department of Operational Research.(Rs. 25,000,00/- shared equally by four PIs including myself).

Research support of Rs. One lakh and Thirty Thousand sanctioned under R&D Doctoral Research Programme of University of Delhi (2015-2016).

Research support of Rs. One lakh and Thirty Thousand sanctioned under R&D Doctoral Research Programme of University of Delhi (2015-2016, ongoing).

Research support of Rs. One lakh and Ten Thousand sanctioned under R&D Doctoral Research Programme of University of Delhi (2014-2015).

Research support of Rs. Two lakhs and Fifty Thousand sanctioned under R&D Doctoral Research Programme of University of Delhi (2013-2014).

Research support of Rs. One lakh and thirty Thousand sanctioned under R&D Doctoral Research Programme of University of Delhi (2012-2013) .

Research support of Rs. One Lakh and Five Thousand sanctioned under R&D Doctoral Research Programme of University of Delhi (2011-2012) .

Research support of Rs. 1.0 lakh sanctioned under R&D Doctoral Research Programme of University of Delhi (2010-2011) .

Research support of Rs. 1.0 lakh sanctioned under R&D Doctoral Research Programme of University of Delhi (2009-2010) .

Research support of Rs. 1.0 lakh sanctioned under R&D Doctoral Research Programme of University of Delhi (2008-2009) .

Research support of Rs. 1.0 lakh sanctioned under R&D Doctoral Research Programme of University of Delhi (2007-2008) .

UGC support for the Minor Research Project in Social Sciences, Humanities and Languages to University/College Teachers-Project entitled “Some One- Sample and Two-Sample Problems in Reliability Theory”.

AWARDS AND DISTINCTIONS

(i) Have been awarded scholarship under the National Scholarship Scheme for the year 1987-1989 for standing 3rd in B.Sc.(H) Statistics.

(ii) Awarded Kumari Rajeshwari Radan Memorial Prize and Lala Banarsi Das Charity Trust Prize for being the best candidate in M.Sc. Exams..

(iii) Qualified joint CSIR/UGC test for JRF and Eligibility for lecturership held in June, 1990, in Statistics

. Awarded Certificate of Merit for being among the six top candidates in Joint CSIR-UGC test .

ASSOCIATION WITH PROFESSIONAL BODIES

1. Memberships:

(i) Indian Statistical Association - Life Member

(ii) Indian Society of Probability and Statistics – Life Member

(iii) Operational Research Society of India - Life Member

(iv) ASQ (American Society for Quality)

ADMINISTRATIVE ASSIGNMENT

(i) Convener – M.Phil Committee, Department of Operational Research, University of Delhi, Delhi-7, 2013-2014.

(ii) Head- Department of Operational Research, University of Delhi, Delhi-7 with effect from 29/08/12 to 11/04/13.

(iii) Co-ordinator – Refresher Course in Mathematics, Operational Research, and Computer Science organized by CPDHE, 2013.

(iv) Convener – Admission Committee: Common Entrance Examination(2012) for admission to M.Sc.(OR) and M.A./M.Sc.(AOR).

(v) Member – Admission Committee: Common Entrance Examination (2011) for admission to M.Sc.(OR) and M.A./M.Sc.(AOR) .

(vi) Superintendent Examination , Deptt. of Operational Research (2005-2006,2006-2007,2007-2008 , each year for 15 days, Semester II & Semester IV Examinations-2011, Semester I & Semester III Examinations - 2012).

(vii) Convener (Purchasing Committee), Deptt. of Operational Research (2006-2007).

(viii) Teacher-in-charge, Deptt. of Statistics, Ramjas College (1996-1998).

(ix) Admission-in-charge, Deptt. of Statistics, Ramjas College (1999-2000).