



**Shaheed Rajguru College of Applied Sciences for Women
University of Delhi
Faculty Profile**

Name	DR. SATISH KUMAR	
Designation	ASSISTANT PROFESSOR	
Email	statskumar1@gmail.com satish.kumar@ragjruru.du.ac.in	
Degree	Institution	Year
Ph.D.	Maharshi Dayanand University, Rothak	2018
M. Phil	Maharshi Dayanand University Rothak	2015
M.Sc.	Chaudhary Charan Singh University Meerut	2014
B.Sc.	Chaudhary Charan Singh University, Meerut	2012
Areas of Interest / Specialization		
Reliability Theory & Modelling, Operations Research		
Publications Profile		
1. Reliability and MTSF Evaluation of Series and Parallel Systems, International Journal of Statistics and Reliability Engineering, Vol 2.(1),pp 74-80,2015 (with J. Nandal & S.C. Malik, ISSN: 2350-0174) 2. Reliability Evaluation of Series-Parallel and Parallel-Series Systems for Arbitrary Values of the Parameters. International Journal of Statistics and Reliability Engineering, Vol.3 (1), pp. 10-19, 2016 (with S.C. Malik, ISSN: 2350-0174). 3. Reliability Measures of a Series System with Weibull Failure Laws. International Journal of Statistics and Systems, Vol. 11(2), pp. 173-186, 2016 (With S.C. Malik., ISSN:0973-2675). 4. Stochastic Analysis of a System with Maintenance of Standby and Repair of the Failed unit Subject to Inspection. International Journal of Statistics and Reliability Engineering, Vol.3 (2), pp. 155-164, 2016 (with Anju Dhall, ISSN: 2350-0174). 5. Evaluation of Reliability and MTSF of a Parallel System with Weibull Failure Laws. Journal of Reliability and Statistical Studies, Vol. 10 (1), pp.137-148, 2017 (with S.C. Malik, ISSN: 0974-8024). 6. Reliability Measures of a Cold Standby System with Preventive Maintenance and Server Failure during Repair. International Journal of Statistics and Reliability Engineering, Vol. 4(1), 75-85, 2017 (with Jyoti Nandal & A.S. Grewal, ISSN:2350-0174). 7. Reliability and MTSF Evaluation of a Parallel-Series System using Weibull Failure Laws. International Journal of Computer Applications, Vol., 172(2), pp.11-21, 2017		

(with S.C. Malik, ISSN:0975-8887).

8. Reliability and MTSF Evaluation of Series-parallel Configuration using Weibull Failure Laws. International Journal of Agricultural and Statistical Sciences, Vol. 13(2), pp. 759-770, 2017.(with S.C. Malik, ISSN: 0973-1903).
9. Reliability Analysis of a Non Series-Parallel System with Different Flow of Information and Weibull Failure Laws, International Journal of Statistics and Reliability Engineering Vol. 5 No. 1, pp. 22-30, 2018 (with Nitika Ahlawat and S.C. Malik, ISSN: 2350-0174).
10. Reliability Evaluation of a Non Series-Parallel System of Six Components with Weibull Failure Laws. Life Cycle Reliability and Safety Engineering, Vol. 8, pp. 91-97, 2019 (with Nitika Ahlawat and S.C. Malik, ISSN: 2520-1352).
11. Reliability Analysis of a Non Series-Parallel System of Seven Components with Weibull Failure Laws. International Journal of System Assurance Engineering and Management, Vol. 12(2)pp 577-582, 2020 (with S.C. Malik and Nitika Ahlawat, ISSN: 0976-4348).

Book Chapters (01)

1. On use of Weibull failure laws for reliability measures of a series-parallel system. De Gruyter Series on the Applications of Mathematics in Engineering and Information Sciences. (with S.C. Malik, ISBN: 978-3-11-061905 8 & Scopus Indexed)

Paper Presentation/ Invited Speakers

1. International Conference on “**Statistical Modeling, Optimization and Data Science (SMODS-2026)**” with 10th Convention of Indian Association for Reliability and Statistics (IARS) organized by the Department of Mathematics and Statistics, Manipal University, Jaipur during October 8-10, 2026.
Presented Paper: Analysis of Reliability and MTSF of Baseline Satellite Configuration
2. International Conference on “**Global Advances in Statistical Modelling, Optimization Techniques, and Data Science (IC-GASMOTDS-2025)**” with 10th Convention of Indian Association for Reliability and Statistics (IARS) organized by the Department of Statistics, M.D. University, Rohtak during November 28–30, 2025.
Invited Talk : Reliability Measures on Mixed Mode Structures using Different Approaches: A Comparative Study
3. International Conference on “**Innovative Trends in Statistics, Optimization, and Data Science (IC-ITSODS-2024)**” with 44th Convention of Indian Society for Probability and Statistics (ISPS) and 8th Convention of Indian Association for Reliability and Statistics (IARS) organized by Department of Statistics and Operational Research, Kurukshetra University, Kurukshetra during December 21-23, 2024.
Presented Paper: Reliability And MTSF of Mixed Mode Structure using Different Methods
4. International Conference on “**Statistics, Data Science and Reliability: Exploring Trends,**

Methods & Applications (IC-SDSRETMA-2023)” in Conjunction with 7th Convention of Indian Association for Reliability and Statistics (IARS) organized by the Department of Statistics, M.D. University, Rohtak during Dec. 24-26, 2023.

Presented Paper: Reliability Analysis of a Non Series-Parallel System of Five Components using Different Methods and Arbitrary Distributions.

5. International Conference on “Statistics and Data Science: Theory and Practice For Progress and Prosperity” in Conjunction with 40th Annual Convention of Indian Society for Probability and Statistics (ISPS) jointly organized by the Department of Statistics, University College of Science, Osmania University, Hyderabad and Indian Society for Probability and Statistics during Mar. 11-13, 2022

Presented Paper: Reliability Analysis of A Non Series-Parallel System with Different Failure Laws.

6. International Conference on “Emerging Trends in Statistics and Data Science” in Conjunction with 40th Annual Convention of Indian Society for Probability and Statistics (ISPS) jointly organized by Department of Statistics, Cochin University of Science & Technology, Cochin, M.D. University, Rohtak, University of Kerala, Trivandrum, Bharathiar University, Coimbatore and The Madura College (Autonomous), Madurai during September 07-10, 2021.

Presented Paper: Reliability Measures of a Non Series-Parallel System of Five Components with Different Flow of Information’s.

7. International Conference on Recent Advances in Statistics and Data Science for Sustainable Development in conjunction with P.G. Department of Statistics, Utkal University, Odisha and Indian Society for Probability and Statistics (ISPS) during Dec. 21-23, 2019.

Presented Paper: Reliability Evaluation of Series-Parallel and Parallel-Series System.

8. Two Days National Seminar on Data Analysis Using Software (R & SPSS) organized by Department of Statistics, Maharshi Dayanand University, Rohtak during October 17-18, 2019.

Presented Paper: Reliability Measures of a Non Series-Parallel System:An Overview.

9. International Conference on Emerging Innovations in Statistics & Operations Research (EISOR-2018) in conjunction with 38th Annual Convention of ISPS & 4th Convention of IARS organized by Department of Statistics, Maharshi Dayanand University, Rohtak during December 27-30, 2018.

Presented Paper: Reliability Analysis of a Non Series-Parallel System with Different Flow of Information and Weibull Failure Laws.

10. 27th International Conference of FIM in Conjunction with 3rd Convention of IARS on Interdisciplinary Mathematics, Statistics and Computational Techniques (IMSCT 2018-FIM XXVII) Organized by Department of Statistics, University of Jammu, Jammu (India) during November 02-04, 2018.

Presented Paper: Reliability Measures of a Parallel-Series System with Weibull Failure Laws

11. National Seminar on “**Recent Trends in Science & Technology: A Computational Approach**” organized by Faculty of Physical Sciences, Ch. Bansi Lal University, Bhiwani on March 22, 2018

Presented Paper: Reliability Analysis of a Parallel-Series System

12. One day National Seminar on “**Stochastic Processes and Applications**” organized by Department of Statistics, M.D. University, Rohtak under Dr. R.K. Fund held on Nov. 11, 2017.

Presented Paper: Reliability and MTSF Evaluation of Series-Parallel Configuration using Weibull Failure Laws

13. National Conference on “**Statistics and Optimization Techniques (NCSOT)**” organized by Department of Statistics, M.D. University, Rohtak (India) during Feb. 11-13, 2017.

Presented Paper: Reliability Measures of a Parallel System with Weibull Failure Laws

14. VIII International Symposium on Statistics and Optimization in Conjunction with XXXVI – Annual Convention of Indian Society for Probability & Statistics (ISPS) organized by Department of Statistics & Operations Research, Aligarh Muslim University, Aligarh (India) during Dec. 17-19, 2016.

Presented Paper: Reliability Measures of a Series Structure System.

15. Conference on “**Computational Mathematics & Operations Research**” organised by B.K. Birla Institute of Engineering & Technology, Pilani during October 15-16, 2016.

Presented Paper: Reliability and MTSF Evaluation of Series and Parallel System

Symposium Attended and other Curricular Activities (10)

1. National Seminar on “Vishva Guru Bharat: Exploring the Glorious Past, Promising Present & the Future Roadmap” organized by Shaheed Rajhuru College of Applied Sciences for Women, University of Delhi in association with ICSSR, SHoDH & Col (DU) held on Mar. 23-24, 2022.

2. One Day Workshop on “**Train the Trainers**” organized by the Department of Biochemistry in association with Students for Holistic Development of Humanity (SHoDH), Shaheed Rajguru College of Applied Sciences for Women, held on Feb. 10, 2020.

3. A University Level Workshop on “**Data Analysis Using R- Programming**” Organized by Department of Statistics, M.D. University, Rohtak on Dec. 26, 2018

4. Two days Faculty Development Program on “**Research Methodology & LaTeX**”, organized by B.K. Birla Institute of Engineering & Technology, Pilani during September 7-8, 2018.

5. Seven Days Workshop on “**Research Methodology in Social Sciences**”, organized by Ch. Ranbir Singh Institute of Social and Economic Change, M.D. University, Rohtak during January 16-22, 2018.

6. Two days National Workshop on “**Time Series Analysis and Forecasting**”, organised by Institute of Management Studies and Research under the aegis of Dr. Radha Krishnan Foundation Fund of Maharishi Dayanand University, Rohtak during Oct.28-29,2017.
7. Swarna Jayanti Two Days National Workshop on “**Data Analysis Using SPSS**” organized by Department of Statistics and Operational Research, Kurukshetra University, Kurukshetra (India) during March 20-21, 2017.
8. National Workshop on “**Scientific Writing Using LATEX**” organized by Department of Mathematics and Statistics, Dr. Shakuntala Misra National Rehabilitation University, Lucknow during Feb. 14-20, 2017.
9. National Workshop on “**Sample Surveys and Data Analysis (Using Software-SPSS, MINITAB & R)**” jointly organized by the Department of Statistics, M.D. University, Rohtak and Indian Association for Reliability and Statistics (IARS) during June. 13-15, 2016.
10. National Workshop on “**SPSS & R Software**” jointly organized by the Department of Statistics, M.D. University, Rohtak and Indian Association for Reliability and Statistics (IARS) held on Feb. 20, 2015.
11. Ninth workshop on “**Reliability Theory and Survival Analysis**” organized by the Department of Statistics, Panjab University, Chandigarh during Nov. 4- 6, 2015.

On-line Webinar, FDP, Workshops, etc. (09)

1. One day Webinar on “**Linear Regression**” organized by Department of Mathematics, Dr. Shivanand Nautiyal Government Post Graduate College Karanprayag, Chamoli (UK), held on June. 15, 2020.
2. National Webinar on “**Mathematical Models on Transmitting Behavior of COVID-19**” organized by Department of Mathematics and Statistics, School of Basic Sciences, Manipal University Jaipur, held on June. 23, 2020.
3. Two Days E-Workshop on “**Data Analysis with SPSS**”, organized by Department of Mathematics and Statistics, School of Basic Sciences, Manipal University Jaipur, during on July. 23-24, 2020.
4. One Week Faculty Development Program on “**Applicability of Mathematical Sciences in Emerging World**” organized by Department of Applied Science and Humanities, Faculty of Science, Invertis University, Bareilly (UP) during July 28-Aug. 02, 2020.
5. One Week Faculty Development Program on “**E-Learning and Developing MOOCs for Teaching Process in Higher Education**”, organized by Department of Statistics and IQAC, Hindu College University of Delhi in Collaboration with

Pandit Madan Mohan Malviya National Mission on Teachers and Teaching Learning Centre, Ramanujan College, University of Delhi, Delhi during Dec. 14-20, 2020. - One day Webinar on “Domination Theory in Graphs” organized by Department of Mathematics, Dr. Shivanand Nautiyal Government Post Graduate College Karanprayag, Chamoli (UK), held on Dec. 22, 2020. - One Week Online Training on “Tools and Techniques in Research Methodology” organized by Science Tech Institute, Lucknow, Uttar Pradesh during Jan. 12-18, 2021 - One day webinar on “Achieving Excellence in Higher Education in India in 21st Century: Challenges & Opportunities” organized by IQAC, Sheheed Rajguru College of Applied Sciences for Women, held on March 31, 2021 - International Workshop on “Integrated Approaches of Stochastic Modelling and Data Science for Sustainable Development” jointly organized by the Department of Statistics, S.V. University and Indian Society for Probability and Statistics (ISPS) during Sep. 7-11, 2022.
Research Supervision (Research Project/Dissertation) - Ms. Pratishtha Attri (2026): Reliability Measures of System Configurations Using Arbitrary Distributions. (Dissertation) - Ms. Nandini (2026): Comparative Study of Reliability and MTSF under Mixed Mode System Configurations (Dissertation) - Ms. Gargi Dubey (2026): Comparative Analysis of Transportation Problem: A Case Study on Himalayan Region. (Dissertation) - Ms. Shivani Singh Rajawat (2026): Transportation Problem and its Applications: A Case Study on Cement Industry. (Research Project) - Ms. Supriya Sheetal (2026): Comparative Analysis of Transportation Problem: A Case Study. (Research Project) - Ms. Avni Jain (2026): Shortest Route Problem: A Case Study on E.V. Charging Stations (Research Project)
Membership - Life Member of Indian Society for Probability and Statistics (ISPS) - Life Member of Indian Association for Reliability and Statistics (IARS).
Awards and Distinctions - First position in M.Phil. (Statistics) in M.D. University, Rohtak and received a Gold Medal. - Award University Research Scholarship (URS) during Ph.D. degree.