

CURRICULUM VITAE



Dr. Puran Rathi (Ph.D. Statistics)

(Teaching Interest: Time Series Analysis and SQC, Probability Theory, Inference, Reliability Theory and Modelling, Optimization Techniques, Real and Complex Analysis, Linear Algebra)

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PERSONAL DETAILS

Father's Name : Sh. Deep Chand

Date of Birth : 16/10/1992

Sex : Male

Marital Status : Married

Religion : Hindu

Nationality : Indian

CORRESPONDENCE ADDRESS

Dr. Puran Rathi,

House No. 219, Surya Nagar, Ladot

Road Rohtak-124001, Haryana

PERMANENT ADDRESS

Dr. Puran Rathi,

VPO Kahni Rohtak

Teshil & District Rohtak,

State-Haryana

Pin Code-124303

ACADEMIC RECORD

2023

Ph.D. from Department of Statistics and Data Science, M.D., University, Rohtak-124001 (H.R.)

Topic: Reliability Characteristics of Parallel Systems with Simultaneous Working of Cold Standby Non-Identical Units

2019

Completed **M.Phil.** from Department of Statistics and Data Science M.D., University, Rohtak-124001 (H.R.)

Topic: Renewal Theoretic Approach for Availability Analysis of a Repairable System Using Arbitrary Distributions

2018

Completed **M.Sc. (Mathematics) Degree** from M.D. University, Rohtak-124001 (H.R.)

2016

Completed **M.Sc. (Statistics) Degree** from Department of Statistics, M.D. University, Rohtak-124001 (H.R.)

2013

Completed **B.Sc. (Non-Medical) Degree** from M.D. University, Rohtak-124001 (H.R.)

2010

Completed 12th **(Non-Medical)** from HBSE, Bhiwani- 127501 (H.R.)

2008

Completed 10th from HBSE, Bhiwani-127501 (H.R.)

Teaching Experience

- **Volunteer Faculty (Teaching Service)**

Department of Statistics and Data Science, Maharshi Dayanand University, Rohtak 01 June 2023 – 13 September 2024

- **Lecturer (Lecture Basis)**

Department of Statistics and Data Science, Maharshi Dayanand University, Rohtak 14 September 2024 – 20 April 2026

Scholarship

- **Senior Research Fellowship (SRF) under CSIR.**

Language Proficiency

- **To Read:** Hindi, English.
- **To Write:** Hindi, English.
- **To Speak:** Hindi, English.

Technical Skills

- Knowledge of Microsoft Office, Minitab Statistical Software, C++, SPSS, R and Python etc.

Research Papers Published/Accepted/Communicated

1. Reliability Characteristics of a Four Unit Parallel-Cold Standby System with Operational Priority, **International Journal of Statistics and Reliability Engineering**, Vol. 8(1), pp. 161-170, 2021 (with Priti Gupta and N. Nandal, Indexed: UGC Care List)
2. Reliability Characteristics of a Parallel-Cold Standby System of Pair wise Identical Four Units with Provision of Priority, **International Journal of Agriculture and Statistical Sciences**, Vol. 17(2), pp. 563-572, 2021 (with S.C. Malik and N. Nandal, ISSN:0973-1903, Indexed: Web of Science, ESCI)
3. Reliability Modelling of a Parallel-Cold Standby System with Repair Priority to Phase-II Units, **International Journal of Statistics and Reliability Engineering**, Vol. 10(1), pp. 48-55, 2023 (with S.C. Malik, Indexed: UGC Care List)
4. Reliability Modelling of a Parallel-Cold Standby System with Proviso of Repair Priority, **Journal of Statistics & Management Systems**, Vol. 26(4), pp. 867-883, 2023 (S.C. Malik)

and N. Nandal, Indexed: Web of Science, ESCI)

5. Profit Analysis of 2-out-2: G Systems with Repair and Preventive Maintenance Subject Conditional Failure of Service Facility, **International Journal of Statistics and Reliability Engineering**, Vol. 10(S-1), pp. 183-189, 2023 (with S.C. Malik and Anuradha, UGC Care List)
6. Reliability Modelling of a Parallel-Cold Standby System with Repair Priority, **Reliability: Theory & Applications**, Vol. 4(76), pp. 760-770, 2023 (S.C. Malik and Anuradha, Indexed: Scopus)
7. Stochastic Analysis of a Cold Standby System with Maximum Operation and Installation Time, **International Journal of Agricultural and Statistical Sciences**, Vol. 21(1), pp. 69-78, 2025 (Kuldeep and S.C. Malik, Indexed: Web of Science).
8. Reliability Measures of a Parallel-Cold Standby System with Conditional Priority for Operation: A Drainage System Application, **International Journal of Systems Assurance Engineering and Management**, Vol. 16(6), pp. 2236-2245, 2025 (with S.C. Malik, and Anuradha, Indexed: Scopus).
9. Stochastic Analysis of a Cold Standby System with Installation and Maximum Repair Time, **International Journal of Statistics and Reliability Engineering**, Vol. 13(1), pp. 61-69, 2026 (with Kuldeep and S.C. Malik, UGC Care List)
10. Semi-Markov approach for Reliability Modeling of Indian Locomotive Class- 12 Engine based upon K-out-N: G Configuration, **OPSEARCH**, (with S.C. Malik, and Anuradha, indexed: Web of Science) (Communicated)
11. Profit Analysis in a Metallic Bush Manufacturing Firm: A Priority Based Approach, **Eksploracja I Niezawodnosc- Maintenance and Reliability**, (with S.C. Malik, Anuradha, Sushil Malik and Amit Dev Indexed: SCIE, Web of Science) (Communicated)
12. Stochastic Analysis of a Cold Standby System with Installation Time and Priority to Preventive Maintenance over Repair, **International Journal of Reliability, Quality and Safety Engineering**, (Kuldeep and S.C. Malik, Indexed: Scopus) (Communicated)
13. Stochastic Analysis of a Cold Standby System with Preventive Maintenance and Installation Time, **Reliability: Theory & Techniques**, (Kuldeep and S.C. Malik, Indexed: Scopus) (Communicated)

Symposium Paper Presentation in Conference/Seminars

1. Completed “**NEP 2020 Orientations & Sensitization Programme**” under Malaviya Mission Teacher Training Programme (MMTTP) of University Grants Commission organized by MMTTC, Central University of Haryana, Mahendergarh (India) from **August 04 to August 13, 2025**.
2. A One Day International Seminar on “**Statistical Frontiers in Data Science (IS-SFDS-2025)**” Organized by Department of Statistics, M.D. University, Rohtak (India) In collaboration with Indian Association for Reliability and Statistics (IARS) on March 01, 2025.

Presented Paper: Reliability Analysis of a Gun Metal Bush Manufacturing Firm under Conditional Priority Constraints

3. An International Conference on **Innovative Trends in Statistics, Optimization and Data Science (IC-ITSODS-2024)**, organized by Department of Statistics and Operational Research Kurukshetra University, Kurukshetra, Haryana, in conjunction with 44th Annual convention of Indian Society for Probability & Statistics (ISPS) and 8th convention of Indian Association for Reliability and Statistics (IARS), December-21-23,2024.

Presented Paper: Reliability Modeling of a Gun Metal Bush Manufacturing Firm Subject to Conditional Priority.

Also Chaired a technical session.

4. Two days Training Programme on “**Hypothesis Testing and Data Analysis Using Software**” organized by Department of Statistics, M.D. University, Rohtak-124001 (India) on 16th & 18th March, 2024.
5. Two days Training Programme on “**Descriptive Statistics Using SPSS, Testing of Hypothesis Using SPSS and Cluster Analysis & Factor Analysis Using SPSS**” **Testing and Data Analysis Using Software**” organized by Department of Statistics, M.D. University, Rohtak-124001 (India) on October 6-7, 2023.
6. International Conference on “**Statistics, Data Science and Reliability: Exploring Trends, Methods & Applications (IC-SDSRETMA-2023)**” organized by Department of Statistics, M.D. University, Rohtak, in Conjunction with 7th Convention of Indian Association for Reliability and Statistics, during Dec. 24-26, 2023.

Presented Paper: Reliability Modelling of Parallel-Cold Standby System with Repair Priority to Phase-II Units

7. International Conference on “**Statistics, Probability, Data Science and Related Area (ICSPDS2023)**” organized in Conjunction with 42nd Annual Convention of ISPS by Department of Statistics, Cochin University of Science and Technology (CUSAT), Cochin during Jan. 04-06, 2023.

Presented Paper: Reliability Measures of Four Units Parallel-Cold Standby System with Repair Priority

8. International Seminar on “**Statistics & Its Applications in Data Science (ISSADS)**” organized by Faculty of Physical Sciences, M.D. University, Rohtak under the aegis of Ch. Ranbir Singh Institute of Social and Economic Change, M.D. University, Rohtak, in Collaboration with Indian Association for Reliability and Statistics (IARS) on 20th Dec, 2022.

Presented Paper: Reliability Characteristics of a Parallel Cold Standby System of Four Units with Priority Proviso

9. One Week Online Workshop on **Biostatistical Data Analysis and Research Methodology** during Dec 21-27, 2022, organized by Science Tech Institute (Run by MKS Educational Society), Lucknow, UP India.
10. 41st Annual Convention of ISPS an International Virtual Conference on “**Statistics and Data Science: Theory and Practice for Progress and Prosperity**” jointly organized by Department of Statistics University College of Science, Osmania University, Hyderabad and Indian Society of Probability and Statistics during 11th -13th March, 2022.

Presented Paper: Reliability Characteristics of a Parallel-Cold Standby System of Pair wise Identical Four Units with Provision of Priority

11. International conference (Virtual Mode) on Emerging Trends in Statistics and Data Science in Conjunction with 40th Annual Convention of Indian Society for Probability & Statistics (ISPS), 7-10, September, 2021

Paper Presented: Reliability Modelling of a Parallel Cold Standby System with Provision of Repair Priority

12. Webinar on “**Emerging Trends of Statistics in the Era of Technological Advancement**” organized by Department of Mathematics & Statistics, Manipal University Jaipur on the occasion of National Statistics Day on June 29, 2021.
13. Three Days Training Programme on “**Statistical Tools and Data Analysis using Software**” organized by Department of Statistics, M.D. University, Rohtak during March 24-26, 2021.
14. One Day Workshop on “**Reliability Theory and Modelling**” organized by Department of Statistics, M.D. University, Rohtak on February 26th, 2021.
15. Online International Conference on “**History and Development of Mathematics**” to Commemorate 133rd Birth Anniversary of Srinivasa Ramanujan, organized by Department of Mathematics, M.D. University Rohtak on National Mathematics
16. National Webinar on “**Reliability & Survival Analysis**” organized by Department of Mathematics, Kalinga University, Naya Raipur, Chhattisgarh (India) on 10 December 2020.
17. International Conference (Virtual) on “**Synergies in Computational, Mathematical, Statistical and Physical Sciences (FIM28SCMSPS2020)**” during Nov. 23-27, 2020
Research Paper Presented: Reliability Characteristics of a Cold Standby-Parallel System of Four Units with Priority for Operation and Repair to Main Unit.
18. International Webinar on “**Advances in Operational, Research for Optimal Humanosphere**” organized by Operational Research Society of India (ORSI), ISPS and Department of Statistics, S.V. University, Tirupati during 20-22, November 2020.
19. International Webinar on “**Mathematical Models, Artificial Intelligence and Pandemic Responses**” organized by Department of Mathematics, M.D. University, Rohtak on 07 November, 2020.
20. Two Day E-Workshop on “**Synopsis Writing**” organized by Institute of Management Studies and Research, M.D. University Rohtak on 23rd to 24th October 2020.

21. Webinar on “**Connecting the World with Statistics in the Era of Data Science**” organized by Department of Mathematics & Statistics, Manipal University, Jaipur with the collaboration of Indian Association for Reliability and Statistics (IARS) on 20 October 2020.
22. National Webinar on “**Statistics and its Applications**” organized by Department of Mathematics, M.D. University Rohtak, to celebrate **World Statistics Day** on 20 October 2020.
23. Three days online National Workshop on “**Statistical Data Analysis using Python**” organized by Science Tech Institute, Lucknow Uttar Pradesh during 05-07, October 2020.
24. One-week short-term training program on “**Mathematica-A Scientific Research Tool**” organized by the Department of Applied Science, Sagar Institute of Research Technology, Bhopal during 21-26, September 2020.
25. International Webinar on “**Advances in Statistics and Data Science for Sustainable Human Development**” organized by Indian Association for Probability and Statistics (ISPS) and Department of Statistics, S.V. University, Tirupati during 07-10, September 2020.
26. Two Days E-Workshop on “**Data Analysis with SPSS**” organized by Department of Mathematics and Statistics, School of Basic Sciences, Manipal University Jaipur, during July 23-24, 2020.

Membership

- Life Member of Indian Association for Reliability and Statistics (IARS)
- Life Member of Indian Society for Probability & Statistics (ISPS)