DR. RAM NIWAS
Assistant Professor
Department of Statistics
GGDSD COLLEGE Chandigarh
India -160030
ram.niwas@ggdsd.ac.in
burastat0001@gmail.com
DOB: 1st December 1986

Educational Qualifications

Ph.D. in Statistics
Department of Statistics & O.R., Kurukshetra University Kurukshetra, Haryana, India (2014) PhD Thesis: **Reliability And Profit Analysis Of Single-Unit Systems With Warranty And Different Repair Policies**, Ph.D. Supervisor: Prof. M.S. Kadyan, Chairperson Deapartment of Statistics & O.R. K.U.K. Haryana.

M. Sc.(Statistics) - Department of Statistics & O.R., Kurukshetra University Kurukshetra, Haryana, India (2007-2009)

Bachelor of Arts (with Statistics and Mathematics) University College, Kurukshetra University Kurukshetra, Haryana, India (2004-2007)

Teaching/Research Experience

- 14 October 2017- till date
  Assistant Professor in the Department of Statistics, GGDSD College,Chandigarh
  Teaching Statistics at under-graduate level

- 19 July 2016- 13 October 2017
  Lecturer (On Contract) in School of Mathematics, Thapar University, Patiala, Punjab.
  Taught Research Methodology to Ph. D. students, Optimization Techniques at Undergraduate level and statistics at Post-Graduate Level
- 04 August 2014-18 July 2016
  Assistant Professor (On Contract) in the Department of Statistics & O.R., Kurukshetra University Kurukshetra, Haryana, India

Areas of Interest

- **Reliability Modeling and Analysis, Queueing Theory and Stochastic Process**

Publications (Journal/Book Chapters)

Journal Publications:

1. **Ram Niwas** and M.S. Kadyan, "A bi-objective inspection policy for a repairable engineering system with failure free warranty" **International Journal of System Assurance Engineering and Management, (with impact factor, 1.721), Vol.-13, pp. 881-891, 2022 (*SPRINGER)-SCOPUS and ESCI* .**

2. **Ram Niwas** and Harish Garg, "An approach for analyzing the reliability and profit of an industrial system based on the

cost free warranty policy" **Journal of the Brazilian Society of Mechanical Sciences and Engineering, *SPRINGER*, (with impact factor, 2.220),** 40(5), pp. 1-9, (2018)-***SCOPUS and SCI***.

3. **Ram Niwas, "**Reliability Analysis of a Maintenance Scheduling Model Under Failure Free Warranty Policy" **Journal of Reliability Theory & Applications**, ***SCOPUS*, (with impact factor, 0.37),** Vol. 13, pp. 49-65, 2018.
4. M.S. Kadyan and **Ramniwas**, "Cost benefit analysis of a single-unit system with warranty for repair", **Journal of Applied Mathematics and Computation, (with impact factor, 4.091), ELSEVIER,** Vol. 223, pp 346-353, (2013)-***SCOPUS and SCI***.

5. **Ram Niwas**, M.S. Kadyan and Jitender Kumar, "Probabilistic analysis of two reliability models of a single-unit system with preventive maintenance beyond warranty and degradation", **Eksploatacja I Niezawodnosc-Maintenance and Reliability**, **(with impact factor, 2.176),** vol. 17(4), pp. 535-543, (2015)- ***SCOPUS and SCIE***.

6. **Ram Niwas**, M.S. Kadyan and Jitender Kumar, "MTSF(mean time to system failure) and profit analysis of a single-unit system with inspection for feasibility of repair beyond warranty", **International Journal of System Assurance Engineering and Management, (with impact factor, 1.721),** ***SPRINGER , Vol. 7(1), pp. 198-204,*** (2016)-***SCOPUS and ESCI***.

7. **Ram Niwas** and M.S. Kadyan, "Reliability modelling of a maintained system with warranty and degradation", **Journal of Reliability and Statistical Studies**, **(with impact factor, 0.853),** vol. 8(1), pp. 63-75, (2015)-***ESCI***.

8. Gulab Singh Bura and **Ramniwas**, "Time dependent analysis of a queueing system incorporating the effect of environment, catastrophe and restoration", **Journal of Reliability and Statistical Studies**, **(with impact factor, 0.853),** vol. 8(2), pp. 29-40, (2015)- ***ESCI***.

9. **Ram Niwas** and M.S. Kadyan, "Analysis of a Single-unit System with Degradation and Inspection for Feasibility of Repair beyond Warranty", **International Journal of Statistics and Reliability Engineering,** vol. 1(1), pp.12-25, (2014)-***UGC-CARE-LISTED***.

10. **Ram Niwas** and M.S. Kadyan, "Supplementary Variable Approach for Analysis of performance measures of Single-Unit System with Preventive Maintenance beyond Warranty", **International Journal of Statistics and Reliability Engineering,** vol. 1(2), pp. 164-178, (2014) - ***UGC-CARE-LISTED***.

11. Gulab Singh Bura and **Ramniwas**, "Time dependent solution of an M/M/1/N queueing model subjected to varying catastrophic intensity with restoration (a different case)", **International Journal of Operational Research Nepal**, vol. 4, pp 1-18, (2015).

12. Gulab Singh Bura and **Ramniwas**, Pallavi Thakur, "Transient solution of a two homogeneous servers finiten capacity MarkovianQueueing system with enviornmental and Catastrophic effects",**International Journal of Operational Research Nepal,** vol. 5, pp 1-14, (2016).

13. **Ramniwas**, M.S. Kadyan and Jitender Kumar, "Stochastic modelling of a single-unit repairable system with preventive maintenance under warranty", **International Journal of Computer Applications (with impact factor 0.791),** Vol. 75-No.14, (2013).

14. M.S. Kadyan and **Ram Niwas**, "Reliability and Profit Analysis of a single-unit system with inspection under warranty", **Journal of Scientiae Mathematicae Japonicae,** pp67-80,(2015).

15. **Ram Niwas** and M.S. Kadyan, "Stochastic analysis of a single-unit system with repairman having multiple vacations" **International Journal of Computer Application,** Vol. 8(1), pp. 137-147, 2018-***UGC-LISTED***.

Book Chapters:

1. **Ram Niwas,** "Reliability and profit analysis of a Markov model having cost-free warranty with waiting repair facility"**,** Engineering Reliability and Risk Assessment**, ELSEVIER, pp. 145-160, 2022.**
2. **Ram Niwas,** "Reliability and cost-benefit analysis of a repairable system under a cost-free warranty policy with the repairman taking multiple vacations"**, Reliability Management and Engineering challenges and future trends, Taylor and Francis, pp. 25-48, 2020.**

Conferences (National/International) (Paper Presented)

1. A paper entitled "A Dual-Objective Inspection Policy for a Repairable Engineering System with Warranty Coverage" in **International Conference** on Innovative Trends in Statistics, Optimization and Data Science organized by Department of Statistics & O.R., Kurukshetra University Kurukshetra, Haryana, India during Dec. 21-23, 2024.
2. A paper entitled "Reliability and Profit analysis of a repairable system with repairman having multiple vacations" is presented in **International Conference** on **"Emerging Innovations in *Statistics & Operations Research (EISOR)*"**, organized by **Department of Statistics, M.D. University, Rohtak, India** during Dec.. 27-30, 2018.
3. A paper entitled "Reliability and Profit analysis of a single-unit system with preventive maintenance during warranty and degradation" is presented in national conference on "***Statistics and Optimization Techniques(NCSOT)***", organized by **Department of Statistics, M.D. University, Rohtak, India** during Feb. 11-13, 2017.
4. A paper entitled "Stochastic analysis of a single-unit system with two types of inspection subject to degradation" is presented in **6th *International conference*** on "***Soft Computing for Problem Solving (SocProS)***", organized by **School of Mathematics, Thapar University, Patiala, India** during Dec. 23-24, 2016.
5. A paper entitled "Analysis of a single-unit system with with inspection for feasibility of repair under warranty", is presented in National Conference on "***Recent Trend and Developments in Statistics (NCRTDS)***", organized by **Department of Statistics, M.D. University, Rohtak, India** during Feb. 21-23, 2015.
6. A paper entitled "Reliability Analysis of a single-unit system with preventive maintenance beyond warranty" is presented in national conference on "***Advances in Theoretical and Applied Statistics***", organized by **Department of Statistics, Panjab University, Chandigarh, India** during Feb. 12-13, 2015.

7. A paper entitled "Probabilistic Analysis of a single-unit system with inspection for feasibility of repair beyond warranty" is presented in national conference on "***Recent advances in statistical methods and their applications in health sciences***", organized by **Department of Statistics, University of Jammu, Jammu, J &K, India** during Nov. 1-3, 2014.

Workshop/ Seminar/ Webinar Attended

- National webinar on ***Recent advances in mathematics***, statistics and computer science organized by PGGC-11, Chandigarh on September 01, 2021.
- Webinar on ***"connecting the world with data we can trust"*** organized by University school of open learning (USOL), PU, Chandigarh on October 20, 2020.
- Webinar on ***"Impact of New Education Policy 2020 on Undergraduate / Postgraduate Colleges"*** organized by GGDSD College, Chandigarh and PML S.D. Business School, Chandigarh on August 08, 2020.
- 2-day international webinar on ***"Redrawing the domestic paradigm: family bonding, gendre concerns & health issues amidst Covid-19"*** organized by PGGC-11, Chandigarh during July 16-17, 2020.
- **Sawarna Jayanti** National workshop on ***Data Analysis using SPSS*** organised by Department of Statistics and O.R., Kurukshetra University, Kurukshetra during March 20-21, 2017.
- National workshop on **"** ***Data Analysis using SPSS*****"** organised by Department of Statistics and O.R., Kurukshetra University, Kurukshetra during September 21-22, 2012.
- A workshop on **"*Research Methodology in Social Sciences*"** organised by Centre for Dr. B.R. Ambedkar Studies, Kurukshetra University, Kurukshetra, during September 01-07,2012.
- National workshop on **"*Reliability Theory and Survival Analysis*"** organised by the applied statistical unit of the **Indian Statistical Institute,Kolkata,** during November 23-25, 2011.
- National workshop on **"*Optimization and Information Theory with their Applications*"** organised by **Jaypee University of Engineering and Technology, Guna,**

(M.P.) during March 24-26, 2011.

Refresher Courses/Workshops/ Training Programmes

- Inter-Disciplinary Refresher Course in Indian Studies (All Disciplines) from 15th to 28th October 2024 organised by UGC-Malaviya Mission Teacher Training Centre, Panjab University, Chandigarh.

- Online Two - Week Interdisciplinary Refresher Course/Faculty Development Programme on Research Methodology from 20 July - 03 August, 2021 organised by Teaching Learning Centre, Ramanujan College University of Delhi under the aegis of Ministry Of Education Pandit Madan Mohan Malaviya National Mission On Teachers And Teaching.

- 4-Week Induction/Orientation Programme for Faculty in Universities/Colleges/Institutes of Higher Education from 11 January, 2021 - 09 February, 2021 organised by Teaching Learning Centre, Ramanujan College University of Delhi under the aegis of Ministry Of Education Pandit Madan Mohan Malaviya National Mission On Teachers And Teaching.
- 4-Week Induction/Orientation Programme for Faculty in Universities/Colleges/Institutes of Higher Education from September 01- September 30, 2020 organised by Teaching Learning Centre, Ramanujan College University of Delhi under the aegis of Ministry Of Human Resource Development Pandit Madan Mohan Malaviya National Mission On Teachers And Teaching.

- Seven Day FDP On Subject Specific Benchmarking Of Learning: Outcome-Based Education Organised by GGDSD College, Chandigarh in collaboration with Guru Angad Dev Teaching Learning Centre, A Centre of Ministry of Education under PMMMNMTT scheme, S.G.T.B. Khalsa College, University of Delhi from 26th october to 01st november 2023.

- Seven Day International FDP or Instructional Skills Workshop organized by GGDSD College sector-32, Chandigarh from 30th April to 5th May 2028.

Administrative Experience

- Head of the department of Statistics, GGDSD, College, Sector-32, Chandigarh.

- Coordinator, Statistical Cell, GGDSD College, Sector-32, Chandigarh.

-
- Board of Studies (UG) in Statistics, Department of Statistics, Panjab University, Chandigarh

Membership of Statistics

- Life Membership of Indian Association of Reliability and

Associations

- Statistics (IARS), MDU Rohtak (Hryana).

Dr. Ram Niwas