

Dinesh Chandra Sharma

Professor

Department of Mathematics

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Qualifications:

1. M.Sc. Mathematics, IIT Delhi.
2. Ph.D. Dr. B.R. Ambedkar University, Agra

Teaching Experience: 40 Years

Current Affiliation: Professor, Department of Mathematics, Central University of Rajasthan

Research areas: Queueing Theory, Machining Systems and Mathematical Programming

Research Papers Published (National and international Journals): 72

Research Papers presented in various Conferences: 56

Delivered invited talks: 68

Books Published (UG /PG) - 15

Ph. D Supervisor: University of Rajasthan, Jaipur, Central University of Rajasthan, Kishangarh, Ajmer.

Ph.D. Awarded/working under my Supervision 07/02, PG projects supervised -24

Other Academic Activities:

1. Life Member of Operations Research Society of India (ORSI).
2. Life Member of Rajasthan Ganit Parishad (RGP).
3. Life Member of Indian Mathematical Society (IMS).

Organizational Activities:

Organized various National, and International Conferences /Seminars, Skill development courses under the RMOL a scheme of Government of Rajasthan and various , ICT training programs.

Administrative assignments in the University:

1. Member Executive Council of the University during 2013-2016,
2. Member Academic Council of the University during 2013- Since Continued,
3. Member Finance committee of the University during 2015-2016 ,
4. Member School Board, School of Mathematics, Statistics & Computational Sciences of the University during 2013-2016,
5. Chairman, School Board, School of Mathematics, Statistics & Computational Sciences of the University during 2015- 2019,
6. Head, Department of Mathematics 2015- 2018 and 2021-2024.
7. Head, Department of Computer Sciences 2015- 2018.
8. Coordinator, Integrated M.Sc. (5year) Programme 2013-2018.

9. Member, Deans Committee 2015- 2018.
10. Dean, School of Education and Yoga 2015- 2018.
11. Dean, School of Mathematics, Statistics & Computational Sciences 2016- 2019.
12. Member, Building and works committee 2018.
13. Chairmen, Games and Sports and Member.
14. TLC, Advisory committee.
15. Chairman, Tender Committee, Central Admission committee.
16. Convener/Members of various university level committees like Ordinance making, examination, admission, student discipline, amenities committee etc.,
17. Principal Investigator DST-FIST programme.
18. Dean Academic, Central University of Rajasthan 2020- Since Contd.
19. Registrar (i/c), Central University of Rajasthan 2021-2022

List of Publications:

1. Cost Analysis Of Degraded Machining System With Spare, Common Cause Failure And Operating Under Variable Service Rate, Jordan Journal of Mathematics and Statistics, 2020.
2. Optimal parameter selection for a machine repair system with servers vacation and controlling F-policy, Jordan Journal of Mathematics and Statistics, 2020.
3. Cost Analysis and Optimization of Machine Repair Model with Working Vacation and Feedback–Policy, International Journal of Applied and Computational Mathematics, 2021.
4. Optimal Profit Analysis of Machine Repair Problem with Repair in Phases and Organizational Delay, International Journal of Mathematical, Engineering and Management Sciences, 2021
5. Analysis of MAP/PH/1 queueing system with degrading service rate and phase type vacation, Mathematics, 2021
6. Performance analysis of a warm standby machine repair problem with servers vacation, impatient and controlling F-policy, Mathematics in Engineering, Science and Aerospace, 2021.
7. Cost optimization of the queueing system with degrading service rate, Bernoulli vacation, and a regular vacation after fixed services, International Journal of Applied and Computational Mathematics, 2022.
8. Analysis of Markovian queue model with unreliable service station and a vacation after fixed services, International Journal of Mathematics in Operational Research, 2022.
9. Study of two heterogeneous servers with service feedback, vacation, and particular service interruption, International Journal of Mathematics in Operational Research, 2023.
10. Impact of the degradation in service rate in MAP/PH/1 queueing system with phase type vacations, breakdowns, and repairs, Annals of Operations Research, 2023.
11. Transient Analysis of an Unreliable System with working Vacation and Threshold Recovery, Mathematics in Engineering, Science and Aerospace, 2023.
12. Fuzzy Analysis of a Retrial Machine Repair Problem using Gaussian Fuzzy Number, Palestine Journal of Mathematics, 2024.
13. Analysis of N policy Machine Repair Model with reboot and recovery action, Journal of Mathematical Analysis, 2024
14. Economic analysis of MAP/PH/1 queueing model with degrading service rates, multiple vacations, and reactive maintenance based on feedback, International Journal of Operational Research, 2024.

15. Sequential quadratic programming-based economic optimisation of an MAP/PH/1 queueing system with negative arrivals and unreliable repairers, *International Journal of Mathematical Modelling and Numerical Optimisation*, 2026.
16. Enhancing Economic Efficiency through Two-type Repair Process in a MAP/PH/1 G- Queue with Unreliable Repairs, *Numerical Algebra, Control and Optimization*, 2026.
17. Economic Analysis of an M/M/1 Queueing System with two Types of Customers , Differentiated Repair Mechanism and Start-up Delays, *Asian Journal of Probability and Statistics* (Accepted).
18. Analysis of Degraded Machining System with Standby Switching Failures, *International Journal of Engineering, Sciences and Mathematics* (Accepted).
19. Fuzzified Machine Repair Problem with Switching Failure and Reboot Delay, *Indian Journal of Pure and Applied Mathematics* (Accepted).
20. Sequential Quadratic Programming-based Economic Optimization of an MAP/PH/1 Queueing System with Negative Arrivals and Unreliable Repairers, *International Journal of Mathematical Modelling and Numerical Optimisation* (Accepted).
21. Study of Queueing Models with F-Policy, IMPATIENT CUSTOMERS, Feedback and reservice, server Vacation, and Breackdown, *International Journal of Applied and Computational Mathematics* (Communicated).
22. Analysis of a Fault-tolerant Queueing Model with MAP Arrivals, PH Service and Repairs, and Alternating Working Servers with Vacation Policy, *Annals of Operations Research* (Communicated).
23. A Stochastic Model for Energy Saving in Cognitive Radio Networks using N-Policy Multiple Sleep Mode, *Annals of Telecommunications* (Communicated).
24. Parametric Analysis of Machine Repair Model with Impatient , Feedback and A Vacationing Server, *Int. J. of Mathematical Modelling and Numerical Optimisation* (Communicated).
25. Economic Analysis of Priority Queueing Model with unreliable server , multiple vacations, and reservice of customers, *Int. J. Operational Research* (Communicated).
26. Enhancing Economic Efficiency through Two-type Repair Process in a MAP/PH/1 G- Queue with Unreliable Repairs, *Numerical Algebra, Control and Optimization*. (Communicated).
27. Economic Analysis of an M/M/1 Queueing System with Two Types of Arrivals, Differentiated Repair Mechanism and Startup Delays, *International Journal of Operational Research* (Reviewing)
28. Comparison of different types of Repair Processes on the Economic Efficiency of an MAP/PH/1 G-Queueing System (Communicated)
29. Optimizing the economic reliability of Queueing System with Negative Arrivals using different types of Admission Control Policies (Communicated)