

Faculty Profile

Name: **Dr. Shreekant Varshney**
Designation: Assistant Professor
Teaching Areas: Linear Algebra, Complex Variables, Calculus, Differential Equations
Research Interests: Stochastic Modeling, Queueing Theory, Optimization using Heuristics and Metaheuristics
Education: Ph.D., Birla Institute of Technology and Science Pilani, Pilani Campus, 2020.
M.Sc., Dr. Bhimrao Ambedkar University, Agra, 2011.
B.Sc., Dr. Bhimrao Ambedkar University, Agra, 2009.



Professional Experience: Nil

Research/Selected Publications:

1. C. Shekhar, S. Varshney, and A. Kumar: "Optimal Control of a Service System with Emergency Vacation using Bat Algorithm", Journal of Computational and Applied Mathematics (Elsevier), Vol. 364, pp. 112332, 2020.
2. C. Shekhar, S. Varshney, and A. Kumar, "Optimal and Sensitivity Analysis of Vacation Queueing System with F-Policy and Vacation Interruption", Arabian Journal for Science and Engineering (Springer), Vol. 45, No. 8, pp. 7091-7107, 2020.
3. C. Shekhar, S. Varshney, and A. Kumar, "Matrix-Geometric Solution of Multi-Server Queueing Systems with Bernoulli Scheduled Modified Vacation and Retention of Reneged Customers: A Metaheuristic Approach", Quality Technology & Quantitative Management (Taylor & Francis), Accepted, 2020.
4. C. Shekhar, A. Kumar, and S. Varshney, "Load Sharing Redundant Repairable Systems with Switching and Reboot Delay", Reliability Engineering and System Safety (Elsevier), Vol. 193, pp. 106656, 2020.
5. C. Shekhar, S. Varshney, and A. Kumar, "Reliability and Vacation: The Critical Issue" in Advances in Reliability Analysis and Its Applications, Eds. M. Ram, and H. Pham, Springer Series in Reliability Engineering, Springer Nature (Switzerland, AG), pp. 251-292, 2019.
6. C. Shekhar, A. Kumar, S. Varshney, and S. I. Ammar, "Fault-Tolerant Redundant Repairable System with Different Failures and Delays", Engineering Computations (Emerald), Accepted, 2019.
7. C. Shekhar, A. Kumar, S. Varshney, and S. I. Ammar, "M/G/1 Fault-Tolerant Machining System with Imperfection", Journal of Industrial and Management Optimization (AIMS), Vol. 13, No. 5, pp. 1-28, 2019.