Faculty Profile

1. Name and Designation : Dr. K.SATISHKUMAR, Assistant Professor
2. Department : Statistics
3. Date of Birth : 16th July 1983
4. Education Qualification: M.Sc., Ph.D.
5. Work Experience:
    Teaching: 14 Years
    i. Lecturer at Mahatma Gandhi College (Distance Education), Guntur, Andhra Pradesh, India, 2009-2012.
    ii. Lecturer at VTJM & IVTR Degree College (Part Time), Mangalagiri, Andhra Pradesh, India, 2011-2012.
    iii. Lecturer at PB Siddhartha College of Arts & Science, Vijayawada, Andhra Pradesh, India, 2012-2013.
    iv. For M.Sc. Statistics Students as a part of fellowship (UGC-BSR-Fellowship) at Department of Statistics, Acharya Nagarjuna University, Guntur, Andhra Pradesh, India, 2013-2016.
    v. Guest Faculty at Ongole PG Centre (Part Time), Acharya Nagarjuna University, Ongole, Andhra Pradesh, India, 2014-2018.
    vi. Assistant Professor (Ad-hoc) at KRU Dr MRAR PG Centre, Krishna University, Nuzvid, Krishna District, Andhra Pradesh – since 24.12.2018 to 04.06.2022.
    Research: 5 Years
    - University Research Fellowship (URF), 2011-12(One Year)
    - UGC-BSR (RFSMS)-SAP, 2013-2018 (5 years).
6. Area of Specialization: Operations Research - Queueing Theory, Stochastic and Finance Modelling
7. Courses Taught at:
    UG Level: Descriptive Statistics, Probability and distributions, Statistical Inference, Applied Statistics, Statistical Quality Control and Operations Research.
    PG Level: Probability Theory, Sampling Theory, Stochastic Processes, Operations Research, Investments Under Uncertainty, Design of Experiments, Multivariate Analysis, Econometrics, Distribution Theory, Regression Analysis.
8. Patents: Obtained: 01
9. Research Publications: (18)
    National Journals: 05 and International Journals: 15
    1. Analysis Of Two-Phase N-Policy $M/M(b)/1$ Queueing System With Server Startup. Asian Journal of Computer Science And Information Technology, 5(8), 59 -61, (2015).
    2. Transient Analysis of Two-Phase N-Policy $M/M/1$ Queueing System with Server Start-Up and Second Optional Service and Breakdowns. International Journal of Scientific Research, 5(2), 290-297, (2016).
    3. Optimal Strategy Analysis of N-Policy $M/M/1$ Vacation Queueing System with Server Start-Up and Time-Out. International Journal of Engineering Science Invention, 6(11), 24-28, (2017).
    4. Cost Analysis of Two-Phase $M/M/1$ Queueing system in the Transient state with N-Policy and Server Breakdowns. International Journal of Computational Engineering Research (IJCER), 7 (9), 48-55, (2017).
    5. $M^X/G/1$ vacation queueing system with server timeout. International Journal of Statistics and Applied Mathematics, 2(5), 131-135, (2017).
    6. A study on N-policy $FM/FG/1$ vacation queuing system with server timeout in triangular, trapezoidal and pentagon fuzzy numbers using α-cuts. International Journal of Advance Research, Ideas and Innovations in Technology, 4(2), 2310-2317, (2018).
    7. Cost Analysis of Finite Capacity $M/E_k/1$ Vacation Queueing System with Server Timeout and N-Policy in Transient State. International Journal for Research in Applied Science & Engineering Technology, 6(II), 794-800, (2018).

8. Optimal Strategy Analysis of N-Policy $M/E_k/1$ Vacation Queueing System with Server Start-Up and Time-Out. Journal of Emerging Technologies and Innovative Research, 5(10), 380-385, (2018).

9. Cost Analysis of M/M/1 queueing system in Transient state with server Start-up and Time-Out N policy. International Journal of Creative Research Thoughts, 6(1), 802-810, (2018).

10. Transient Analysis of Finite Capacity N-Policy $M^x/M/1$ Queueing System with Server Start-up and Time-out. Journal of Computer and Mathematical Sciences. 9(11), 1691-1700, (2018).

11. M/G/1 vacation queueing system with breakdown, repair and server timeout. Journal of Emerging Technologies and Innovative Research, 5(2), 612-615, (2018).

12. Encouraged Or Discoursed Arrivals Of An M/M/1/N Queueing System With Modified Reneging. Advances In Mathematics: Scientific Journal, No.9, 6641–6647. ISSN: 1857-8365 (printed); 1857-8438 (electronic), (2020), DOI: https://doi.org/10.37418/amsj.9.9.21 (Spec. Issue on RDESTM-2020).

13. Optimal Analysis of $M^x/M/1$ Vacation Queueing System with Server Time-Out. Journal of Interdisciplinary Cycle Research, Volume XII, Issue IX, September/2020, 1643-1653, (2020).

14. A Study On - FM/FM/1 Vacation Queueing System with Server Start-Up and Time-Out. Journal of Interdisciplinary Cycle Research, Volume XIII, Issue III, March/2021, Page No: 1423 – 1433, ISSN NO: 0022-1945, (2021).

15. Optimal Strategy Analysis of N-Policy FM/FEk/1 Vacation Queueing System with Server Start-Up and Time-Out. Strad Research, VOLUME 8, ISSUE 7, Page No:330–343, ISSN: 0039-2049, (July/2021). DOI: https://doi.org/10.37896/sr8.7/035.

16. Analaysis of Two-phase $M^x/E_k/1$ Queue with Heterogeneous Arrival rates, Unreliable Server under N-Policy, Essence of Mathematics in Engineering Applications, AIP Conference Proceedings.2375, 040004, (October 2021).

17. A Study on N- policy Fuzzy Vacation Queueing System With Server Start-Up and Time-Out Using Ranking techniques, International Journal of Research and Analytical Reviews (IJRAR), Volume 9, Issue 2, pp.780-785, April 2022.

18. Study On Optimal Strategy N-Policy Fuzzy Vacation Queueing System With Server Start Up And Time Out Using L-R Method, International Journal Of Advanced Research In Computer Science, Volume 13, No. 2, Pp.39-44, March-April 2022, Issn No. 0976-5697, Http://Dx.Doi.Org/10.26483/Ijarcs.V13i2.6811.

10. Conferences/Seminars presentations:

1. Analysis of Two-Phase N-Policy M/M(b)/1 Queueing System With Server Startup" in One-Day National Seminar on Algebra, organized by Department of Mathematics, Kakaraparti Bhavanarayana College, Vijayawada, Andhra Pradesh, India on 25th October 2011.

2. Analysis of Two-Phase N-Policy M/M(b)/1 Queueing System With Second Optional Service in batches and Server Startup" in Two-Day National Seminar on Modern Trends in Mathematical and Physical Sciences", organized by Department of Mathematics, Dharma Apparao College, Nuzvid, during 20-21, January 2012.

3. Analysis of N-Policy M/M/1 queueing System with server startup & subcontracting" in "International Conference on Recent Advances in Statistics and their Applications & 33rd Annual Convention of Indian Society for Probability and Statistics(ISPS)", organized by Department of Statistics, Dr.Babasaheb Ambedkar Marathwada University, Aurangabad(M.S.), India during December 26-28, 2013.

4. Two-Phase N-Policy M/M/1 Gated Queueing System with Server Breakdowns and Balking" in "National Conference on Recent Advances in Statistics", sponsored by UGC-DRS SAP-I, organized by Department of Statistics, Osmania University, Hyderabad during 21-22 February 2014.

5. Analysis of Two-Phase N-Policy $M^x/M^{[b]}/1$queueing system with Second Optional Service in Batches & Server Startup" in "Two Day UGC National Seminar on Mathematics & Statistical Techniques", organized Department of Mathematics & Statistics, Singareni Collieries Women's Degree & PG College, Kothagudem, Khammam during 26-27 August, 2014.

6. Optimal Control of Two-Phase N-Policy M/M/1 queueing System with server Startup, Breakdowns and Second Optional Service", in "International Conference on Statistics & Information Technology for a Growing Nation & 34th Annual Convention of Indian Society for Probability and Statistics (ISPS)", organized by Department of Statistics, Sri Venkateswara University, Tirpati, A.P., India during 30th November-02 December, 2014.

7. Analysis Of Two-Phase N-Policy Queueing Model With Server Start-Up, Breakdown, Second Optional Service And Balking" in "6th Indian Youth Science Congress", organized by Acharya Nagarjuna University, Guntur, A.P., during 19-21 January, 2015.

8. Transient Analysis of Two-Phase N-Policy M/M/1 Queueing Model with Server Startup and Second Optional Batch Service", in the National seminar on SQC, Reliability, Design of Experiments and Operations Research conducted by Department of Statistics, Acharya Nagarjuna University, Guntur during 23rd -24th February, 2017.

9. Analysis of N-policy M/M/1 queueing system with server start-up and Time-out in XXVI Congress of Andhra Pradesh Society for Mathematical Sciences & National Conference on Recent Advances in Mathematics conducted by Department of Mathematics, Kakatiya University, Warangal, Telangana during 11th – 13th, August 2017.

10. Optimal Strategy Analysis of N-policy $M/E_k/1$ queueing system with server start-up and Time-out in an International Conference on Applied Science and Technology conducted by Sri Sagi Rama Krishnam Raju Engineering College, Bhimavaram, Andhra Pradesh during 24th -25th, January 2018.

11. Optimal Strategy Analysis of N-policy $M^X/M/1$ vacation queueing system with server start-up and Time-out in the National Conference on Recent Trends in Statistical Modelling and Applications conducted by Department of Mathematics, Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad on 18th April 2018.

11. No of Books Published with details: 01
Fundamentals of Data Analytics, ISBN No.978-81961690-4-6

12. Academic Administration
Warden (2022-till date)

13. Presentations and Invited Talks
1. Seminar Talk on Stochastic Operations Research Models on 18th February 2020 organized by Department of Statistics, Sri Durga Malleswara Siddhartha Mahila Kalasala, Vijayawada.
2. Resourse Person to ICSSR-SRC sponsored Two-Day National Seminar on COVID-19 Global Turbulence: India's Preparedness organiszed by Department of Commerce & Managemnt, Dharma Apparao College, Nuzvid on 29th and 30th April, 20201.
3. Seminar Talk on Statistics in Science on 25th February 2022 organized by Department of Statistics, Sri Durga Malleswara Siddhartha Mahila Kalasala, Vijayawada.

14. Programs Organized
1. Two-Day National level Online Workshop on Google Tools to Online Teaching held during 26th & 27th August 2020 organised by Krishna University Dr.MRAR PG Centre, Nuzvid, Andhra Pradesh.
2. National level Two-Day Online Workshop on Applications of Mathematical Sciences held during 10th & 11th September 2020 organised by Department of Applied Mathematics, Mathematics & Statistics, Krishna University Dr.MRAR PG Centre, Nuzvid, Andhra Pradesh.