

FACULTY PROFILE



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Professional Qualification:

- [1] **Post-Doctoral Fellow Certificate (PDF) in Mathematics, Srinivas University Mangaluru, Karnataka, 2022**
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- [4] **B.Sc. in (Physics, Chemistry, Math's) Chaudhary Charan Singh University (formerly, Meerut University), Meerut, U.P., 2004**

Publications (Journals & Conferences):

1. Jayaprakash Venugopala, Rahul Dubey, Vikas Mahor, G. Ramkumar, **Ajay Singh Yadav**, Vikas Tripathi, Ranjith Kumar V., V. Mohanavelg, Ravishankar Sathyamurthy "Analysis and performance enhancement of newly designed solar based heat pump for water heating application". Energy Reports International (SCI) Volume 8 302–312, 2022.
2. Yogesh Misra, Ashish Kumar Srivastava, Aamir Junaid Ahmad, **Ajay Singh Yadav**, Subrahmanya m Voore, Ghalib H. Alshammri, and Henry Kwame Atiglah "Secure Information Collection and Energy Efficiency in Heterogeneous Sensor Networks Using Machine Learning with the Internet of Things". Wireless Communications and Mobile Computing International (SCI) Volume 2022.

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4. Mohamed Dawood, Pavan Kumar Chaubey, Priyanka Agarwal, IBRAHIM A I Adwan, Anuj Kumar Sharma, **Ajay Singh Yadav** “Role of industrial automation in terms of providing predictive maintenance in the transportation and logistics sector 2022”-IEEE International Interdisciplinary Humanitarian Conference for Sustainability (IIHC-2022) International (Scopus) DOI: 10.1109/II HC55949.2 022.100601 93, 2023.
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9. Itoua Wanck Eyika Gaida, Mandeep Mittal, **Ajay Singh Yadav** “Optimal Strategy for Supplier Selection in a Global Supply Chain Using Machine Learning Technique”. International Journal of Decision Support System Technology International (Scopus) Volume 14, Issue 1, 2022.
10. **Ajay Singh Yadav**, Tripti Pandey, Vinam Tomar, Nitin Kumar Tabu search problem application based economic impact of corona virus pandemic on sugar industry inventory

system for deteriorating objects with two- distribution center and waste-material treatment Materials Today: Proceedings International (Scopus) Volume 51 871–879, 2022.

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12. Garima Sethi, **Ajay Singh Yadav**, Chaman Singh Two Ware-Houses Fuzzy Inventory Model For Deteriorating Items With Ramp Type Demand And Shortages Journal of Management Information and Decision Sciences International (Scopus) Volume 25, Issue 2, 2022.
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99. Raj Kumar Singh, **Ajay Singh Yadav**, Anupam Swami A Two-Warehouse Model for Deteriorating Items with Holding Cost under Inflation and Soft Computing Techniques International Journal of Advanced Engineering, Management and Science (IJAEMS) International Volume -2, Issue-6, June- 2016. P.N. 869- 876, 2016.
100. Sanjai Singh, **Ajay Singh Yadav**, Anupam Swami An Optimal Ordering Policy For Non-Instantaneous Deteriorating Items With Conditionally Permissible Delay In Payment Under Two-Storage Management International Journal of Computer Applications International Volume 147 –No.1, August 2016. P.N.16- 25, 2016.
101. **Ajay Singh Yadav**, Prerna Maheshwari (Sharma), Ms. Anupam Swami Analysis of Genetic Algorithm and Particle Swarm Optimization for warehouse with Supply Chain management in Inventory control International Journal of Computer Applications International Volume 145 –No.5, November 2016. P.N. 10- 17.
102. Ms. Anupam Swami, S.R. Singh, Sarla Pareek, **Ajay Singh Yadav** Inventory policies for deteriorating item with stock dependent demand and variable holding costs under permissible delay in payment International Journal of Application or Innovation in Engineering & Management (IJAEM) International Volume 4, Issue 2, February. 2015. P.N. 89- 99, 2015.
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104. Inder Pal Singh, Praveen Bhatt, Ajay S. Yadav Merits Of Parallel Coupled Bandpass Filter Over End Coupled Bandpass Filter In X Band International Journal of Electrical, Electronics and Data Communication, 2015. International Volume-3, Issue-5, May-June P.N.1-6, 2015.

105. Anupam Swami, Sarla Pareek, S. R. Singh and **Ajay Singh Yadav** An Inventory Model With Price Sensitive Demand, Variable Holding Cost And Trade- Credit Under Inflation International Journal of Current Research International Volume 7, Issue, 06, June 2015. pp. 17312- 17321., 2015.
106. Kusum Gupta, **Ajay Singh Yadav**, Ankur Garg, Anupam Swami A Binary Multi-Objective Genetic Algorithm & PSO involving Supply Chain Inventory Optimization with Shortages, inflation International Journal of Application or Innovation in Engineering & Management (IJAEM) International Volume 4, Issue 8, August 2015. P.N. 37- 44., 2015.
107. **Ajay Singh Yadav**, Kusum Gupta, Ankur Garg, Anupam Swami A Soft computing Optimization based Two Warehouse Inventory Model for Deteriorating Items with shortages using Genetic Algorithm International Journal of Computer Applications International Volume 126– No.13, September 2015. P.N. 7-16, 2015.
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110. Babita Taygi, **Ajay Singh Yadav**, Sanjai Singh, Anupam Swami An Inventory Model with Partial Backordering, Weibull Distribution Deterioration under Two Level of Storage International Journal of Computer Applications International November 2015. P.N. 15- 22., 2015.
111. Inder Pal Singh, Praveen Bhatt & Ajay S. Yadav A Design and Realization of Miniaturized Low Pass Filter Using Defected Ground Structure Technique with Wide Stop band International Journal of Electronics, Communication & Instrumentation Engineering Research and Development (IJECIERD) International Feb.2014. P.N. 97- 107., 2014.
112. **Ajay Singh Yadav**, Anupam Swami Two-Warehouse Inventory Model for Deteriorating Items with Ramp-Type Demand Rate and Inflation. American Journal of Mathematics and Sciences International Volume 3 No-1 January 2014. P.N. 137- 144, 2014.

113. Shashank Yadav, Kusume Gupta, **Ajay Singh Yadav** A Novel System Architecture for Underwater Sensor Network International Journal of Engineering Research & Management Technology (IJERMT) International May 2014, Volume 1, Issue 3. P.N. 155- 159, 2014.
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116. **Ajay Singh Yadav**, Ms. Anupam Swami “Effect of Permissible Delay on Two-Warehouse Inventory Model for Deteriorating items with Shortages”. International Journal of Application or Innovation in Engineering & Management (IJAIEM) International Volume 2, Issue 3, March 2013. P.N. 65- 71., 2013.
117. **Ajay Singh Yadav**, Anupam Swami “A Two-Warehouse Inventory Model for Decaying Items with Exponential Demand and Variable Holding Cost”. International of Inventive Engineering and Sciences (IJIES) International Volume-1, Issue-5 April 2013. P.N. 18- 22, 2013.
118. Shashank Yadav, Kusum Gupta, **Ajay Singh Yadav** “Design And Load Balancing Of A Novel Routing Protocol For Uwsn” International Journal of Advances In Computing And Information Technology, International Volume 2 Issue 2 April 2013 P.N. 17- 24, 2013.
119. **Ajay Singh Yadav**, Anupam Swami “A Partial Backlogging Two- Warehouse Inventory Models For Decaying Items With Inflation”. International Organization of Scientific Research Journal of Mathematics. International Issue 6 (May.- Jun. 2013), P.N. 69- 78, 2013.
120. Nitin Kumar, Parvez Ahmed Alvi, **Ajay Singh Yadav**, Anupam Swami “A Study Routing Protocols for Ad- hoc Network”. International Journal of Application or Innovation in Engineering & Management (IJAIEM) International Volume 2, Issue 6, June 2013. P.N. 154- 159., 2013.
121. Garima Bhardwaj, Parvez Ahmed Alvi, **Ajay Singh Yadav** and Anupam Swami “Study of 6LoWPAN in WSN Network” International Journal of Application or Innovation in

Engineering & Management (IJAEM) International Volume 2, Issue 7, August 2013. P.N. 10-17, 2013.

122. Rakesh Kumar Yadav, Kusum Gupta, **Ajay Singh Yadav** “A Comparison Of Data Dissemination Protocols For Wireless Sensor Networks” in International Journal of Scientific And Engineering Research International Volume 2, Issue 7, July-2011. P.N. 1-3, 2011.

123. Kusum Gupta, **Ajay Singh Yadav** and Shashank Yadav “Location Privacy Using User Anonymity And Dummy Locations” in International Journal of Innovative Technology and Creative Engineering, Issue International Volume 1, No. 10, October- 2011. P.N. 5-8, 2011.

Awards and Achievements

➤ Best Faculty Awards

Workshops/Seminars/FDPs

1. Supply Chain Inventory model for Deteriorating item with warehouse & Distribution centres under Inflation, 5th International Conference on recent trends in computing (ICRTC-18) held at SRM Institute of Science and Technology, Delhi-NCR Campus, Modinagar , Ghaziabad, India on December 27th& 28th , (2018).
2. Supply Chain of Chemical industry for Warehouse with distribution centres using Artificial bee colony algorithm 5th International Conference on recent trends in computing (ICRTC-18) held at SRM Institute of Science and Technology, Delhi- NCR Campus, Modinagar , Ghaziabad, India on December 27th& 28th , (2018).
3. An Analysis Marble Industry Inventory Optimization Based on Genetic Algorithms and Particle swarm optimization, 5th International Conference on recent trends in computing (ICRTC-18) held at SRM Institute of Science and Technology, Delhi-NCR Campus, Modinagar ,Ghaziabad, India on December 27th& 28th , (2018).

4. Security Mechanism implemented in Gateway Service Providers, 5th International Conference on recent trends in computing (ICRTC-18) held at SRM Institute of Science and Technology, Delhi-NCR Campus, Modinagar ,Ghaziabad, India on December 27th& 28th , (2018).
5. Supply Chain inventory Model & Deteriorating Items with Two-warehouse using Neural Networks International Conference on Soft Computing and Mathematical Modelling held at KIET Group of Institutions Ghaziabad, India on Dec. 22- 13, (2017)
6. Modeling of Inventory Model with a First in First out (FIFO) using Neural Networks Conference on analysis and its applications held at Dyalsingh college university of Delhi, New Delhi, from December 9-11, (2017)
7. Analysis of Inventory Model with a Last in First out (LIFO) using Simulated Annealing 20th Annual National conference of VijnanaParishad of india on mathematical Sciences and Scientific Computing for Industrial development (MSSCID-(2017)) held Manipal University Jaipur from November 24-26, (2017)
8. Two Storage Management for Non-Instantaneous Deteriorating Items with Conditionally Permissible Delay in Payment under Genetic Algorithm and Particle Swarm Optimization National Conference on Mathematical Modelling-Modern Approaches (MMMA-(2017)) held at DIT University, Dehradun, 13-14, October (2017).
9. Multi-Objective Genetic and Particle Swarm Optimization Algorithm Involving Green Supply Chain Management National Conference on Mathematical Modelling-Modern Approaches (MMMA-(2017)) held at DIT University, Dehradun, 13-14 October (2017).
10. Modeling and Analysis of Inventory Model with a First in First out (FIFO) using Genetic Algorithms, and Particle Swarm Optimization International Conference on Global Initiatives in Applied Sciences and Green Technology”

held at SRM University, Delhi-NCR Campus, Modinagar , India from September 9-11, 2016 collaboration with Scientific Educational Research Society (SERS).

- 11.** Modeling and Analysis of Inventory Model with a Last in First out (LIFO) using Genetic Algorithms, Particle Swarm Optimization and Simulated Annealing International Conference on Global Initiatives in Applied Sciences and Green Technology” held at SRM University, Delhi-NCR Campus, Modinagar , India from September 9-11, 2016 collaboration with Scientific Educational Research Society (SERS).
- 12.** Two Storage inventory model for Non-instantaneous Deteriorating Items with Conditionally Permissible Delay in Payment under Economic Load Dispatch Problem Using Genetic Algorithm International Conference on Global Initiatives in Applied Sciences and Green Technology” held at SRM University, Delhi-NCR Campus, Modinagar , India from September 9-11, 2016 collaboration with Scientific Educational Research Society (SERS).
- 13.** Modeling and Analysis of A fuzzy based two-warehouse inventory model for non-instantaneous deteriorating items with artificial bee colony algorithm Using Genetic Algorithm International Conference on Global Initiatives in Applied Sciences and Green Technology” held at SRM University, Delhi-NCR Campus, Modinagar , India from September 9-11, 2016 collaboration with Scientific Educational Research Society (SERS).
- 14.** Inventory model with shortages, generalised deterioration and holding cost rates for optimizing inventory and marketing policy International Conference on Global Initiatives in Applied Sciences and Green Technology” held at SRM University, Delhi-NCR Campus, Modinagar , India from September 9-11, 2016 collaboration with Scientific Educational Research Society (SERS).

- 15.**Two-Warehouse Inventory Model for Non-Deteriorating Items under Conditionally Permissible Delay in Payment and Inflation international conference on Recent trends in Engineering and materials Science held at jaipur national university, jaipur from March 17-19, 2016
- 16.**Two-Warehouse Inventory Model for Deteriorating Items with Ramp-Type Demand Advance Techniques In Mathematics, Physics & Computer Sciences (WATMPCS-16)" February 18-20, 2016 under the auspices SRM University,NCR Campus, Modinagar.
- 17.**Two-Warehouse Inventory Model for Deteriorating Items with Permissible Delay in Payment. "Conference on Advance Techniques and Devices in Mathematics and Physical Sciences (An International Meet) - CATDMP 2015"during 23-25 January 2015, in the memory of great Mathematician S. Ramanujan, under the auspices SRMUniversity, Delhi-NCR Campus, Modinagar, Ghaziabad
- 18.**Two-Warehouse Inventory Model for Deteriorating Items with Inflation.National Conference on Mathematical Analysis & Modeling held at SRM University NCR Campus Modinagar Ghaziabad on 30th and31st March 2012.
- 19.**Effect of Permissible Delay on Two Warehouse Inventory Model For Deteriorating Items with Shortages. 2nd National Seminar on Recent Trends in Advancement of Mathematical & Physical Sciences. held in January, 2010 at D.N. (P.G.) College, Meerut.
- 20.**Two-Warehouse Inventory Model for Deteriorating Items with Ramp-Type Demand and Inflation. National Conference on Recent Trends in The Advancement of Astronomy and Applied Mathematical.held in November, 2009 at S.G.R.R (P.G.) College, Dehradun.
- 21.**Order Level Inventory System with Power Demand Pattern and Partial

Backlogging. National Seminar on Recent Trends in Science Technology & its Applications.held in January, 2006 at S.D. College OfEngg. & Tech., Muzaffarnagar.

22.A Two Warehouse Inventory Model for Decaying Items with Exponential Demand and Variable Holding Cost. National Seminar on Recent Trends in Advancement of Mathematical & Physical Sciences. held in November, 2006 at

D.N. (P.G.) College, Meerut.

23.National Workshop on Inventory and Transportation Sponsored by Department of Science and Technology Govt. of India New Delhi From March 15-18, 2012 under the auspices of Center for Mathematical Sciences Banasthali University

24.National Workshop on Inventory Modeling Sponsored by Department of Science and Technology Govt. of India New Delhi From March 04-07, 2011 under the auspices of Center for Mathematical Sciences Banasthali University

Work Experience:

- [1] **Presently working** as an **Associate Professor** in **SRM Institute of Science and Technology (Formerly known as SRM University) Delhi-NCR Campus** Modi Nagar Ghaziabad from **June 2010 to Till date**
- [2] **Thirteen years worked** as an **Assistant Professor** in **SRM Institute of Science and Technology (Formerly known as SRM University) Delhi-NCR Campus** Modi Nagar Ghaziabad from **Aug. 2010 to June 2023**
- [3] **One Year worked** as a **Sr. Lecturer** in **ACME College of Engineering** Ghaziabad from **July 2009 to Aug. 2010**
- [4] **One Year worked** as a **Lecturer** in **Shanti Institute & Technology,** EngineeringCollege Meerut from **July 2008 to June 2009**

[5] **Two Years worked as a Lecturer in D.N. P.G. College Meerut from 2006 to June 2008.**

Professional Memberships:

1. Life Member of Indian Science Congress Association.
2. Life Member of [Operational Research Society of India](#)
3. Member of Editorial Advisory Board of International Journal of stability and fluid mechanics (ISSN: 0975-8399),
4. Member of Editorial Advisory Board of International Journal of inventory control and management (ISSN: 0975-3729)