

PG & RESEARCH DEPARTMENT OF MATHEMATICS

Research Publications (2021-2022)

S.No	Name of the Faculty Member	Research Paper	Date of publication	Name of the Journal
1.	W.Ritha, N.Rajeswari	The Sensitivity Analysis Of Service And Waiting Costs Of A Multi-Server Fuzzy Queuing Model Using Ranking Technique	June 2021	International Journal of Aquatic Sciences
2.	W.Ritha, N.Rajeswari	An Analytical Study Of the M/M/1N Imprecise Queuing System with Encouraged Arrivals	June 2021	International Journal of Aquatic Sciences
3.	W.Ritha, N.Rajeswari	Perceptualization Of Parametric Study On imprecise Queuing In A Two Stage Model With No Waiting Line Between Channels	December 2021	Natural Volatiles & Essential Oils
4.	W.Ritha, N.Rajeswari	Exploration Of Ranking Based On Statistical Beta Distribution For A Heterogeneous Server Imprecise Queue With A Slow Server Threshold	December 2021	Natural Volatiles & Essential Oils
5.	P.Selvi, W.Ritha	Green Inventory Model With The Impact Of Trade Credit And Partial backordering Under Permissible Delay in payment	December 2021	Natural Volatiles & Essential Oils
6.	P.Selvi, W.Ritha	Inventory Model On The Effect Of Investment Green Technology Under Cap And Trade Policy	June 2021	International Journal of Aquatic Sciences
7.	P.Selvi, W.Ritha	An Integrated Vendor-Buyer Model With Consideration Of Logistics and Green Investment Under Strict Carbon Cap Policy	June 2021	International Journal of Aquatic Sciences

8.	W.Ritha, P.Yasodai	Multi Server Fuzzy Queuing Model With Erlang service Performance measures by L-R method	June 2021	Sambodhi
9.	W.Ritha, P.Yasodai	Cost Analysis Of Fuzzy Tandem Queues Using A Parametric Relation pair	December 2021	Natural Volatiles & Essential Oils
10.	W.Ritha, P.Yasodai	Exploration Of Fuzzy Preemptive-resume Priority Queuing System Using Robust ranking Method	June 2021	International Journal of Aquatic Sciences
11.	W.Ritha, P.Yasodai	Cost Interpretation Of Fuzzy Queuing Model Using Ranking Based On Statistical Beta Distribution	June 2021	International Journal of Aquatic Sciences
12.	W.Ritha, P.Yasodai	Analyzation Of A Fuzzy Queuing Model with Flexible Service Policy Using Parametric Programming Approach	September 2021	European Journal Of Molecular & Clinical Medicine
13.	W.Ritha, R.Saarumathi	Shoddy Pro-Offering Technique Using Lagrangian Method	JUNE 2021	International Journal of Aquatic Sciences
14.	W.Ritha, R.Saarumathi	Production Inventory Model- Panorama Harnessing Geometric Programming	August 2021	International Journal of Aquatic Sciences
15.	W.Ritha, R.Saarumathi	EPQ Model – An Endommager Etymology	September 2021	European Journal Of Molecular & Clinical Medicine
16.	W.Ritha, R.Saarumathi	Amenable Carbon Emissions Harnessing Optimum Sustainable Inventory Management Amidst	December 2021	Natural Volatiles & Essential Oils

		Backorder And Deterioration esteeming Geometric Programming		
17	M.Mary Mejrullo Merlin, A.Rosa Mystica, S. Rexlin Jeyakumari, and M. Fabiana Jacantha Mary	Interval Valued Intuitionistic Fuzzy Cognitive Map Based On Likelihood Concept For Multi Attribute Decision Making	December 2021	Natural Volatiles & Essential Oils
18	Dr.M.Mary Mejrullo Merlin, C.Gladia Vincy, R. Aishwarya, M. Fabiana Jacantha Mary	A Study Of People Perpectives Towards Water Purification Technologies Using GRA Method Of Multiple Attribute Decision Making In Intuitionistic Fuzzy Environment	2021	Turkish Journal of computer and Mathematics Education
19	J. Merline Vinotha , L. Brigith Gladys , W. Ritha , I. Antonitte Vinoline	Fuzzy Soft Set Based Multiobjective Fuzzy Transportation Problem Involving Carbon Emission Cost Linked With The Travelling Distance	December 2021	Natural Volatiles & Essential Oils
20	Dr.S. Rexlin Jeyakumari, Dr.M.Mary Mejrullo Merlin, M. Fabiana Jacantha Mary	Green Inventory Model By Controlling Carbon Emission Under Uncertainty	December 2021	Natural Volatiles & Essential Oils
21	I.Antonite Vinoline, W. Ritha, J. Merline Vinotha	A Multi-Item Inventory Pricing Model With A Rate Of Production Proportional To The Rate Of Power Demand	December 2021	Natural Volatiles & Essential Oils
22	S.Rexlin Jeyakumari W.S.Alda	A Fuzzy Green Inventory Model by controlling Carbon Emissions	October 2021	IJRAR
23	S.Rexlin Jeyakumari V.Vinola Elisabeth	Fuzzy Green Inventory Model with Vendor Buyer Environmental Sustainability	October 2021	IJRAR
24	S.Rexlin Jeyakumari,J.Jay araj, X.Arul Selvaraj.	Some (δ, γ) – Fuzzy Homomorphism theorem on Rings	September 2021	AIP Confernce proceedings

25.	S.Rexlin Jeyakumari, J. Jayaraj, X. Arul Selvaraj.	Triangular norm (δ, γ) - fuzzy interior- ideals of hemi rings and its properties	September 2021	AIP Conference proceedings
26.	S.Rexlin Jeyakumari, I. Shiny Bridgett, J. Jayaraj, X. Arul Selvaraj.	Optimization of fuzzy inventory model using Kuhn-Tucker technique and Lagrangean Method	September 2021	AIP Conference proceedings
27.	S.Rexlin Jeyakumari, I. Shiny Bridgett, J. Jayaraj, X. Arul Selvaraj.	Optimization of EOQ model without shortages under uncertainty	September 2021	AIP Conference proceedings
28.	I. Shiny Bridgett, S. Rexlin Jeyakumari	Optimization of Green Manufacturing inventory model using hexagonal fuzzy number	June 2021	International Journal of Scientific Research and Modern Education (IJSRME)
29.	Ms. S. Jone Jayashree, Dr. J. Beny, Ms. P. Sagaya Leeli	Common Fixed Point Theorems On D^* Metric Spaces	December 2021	Natural Volatiles & Essential Oils
30.	Dr. A. Mary Priya Dharsini, Dr. A. Leema Maria Prakasam, Dr. A. Jennie Sebasthy Pritha	Fixed Point Theorem With Integral – Type Inequality Multiplicative Metric Spaces	December 2021	Natural Volatiles & Essential Oils
31.	Dr. A. Leema Maria Prakasam, Dr. A. Mary Priya Dharsini, Dr. A. Jennie Sebasthy Pritha	Common Fixed Point Theorem Sin R-Partial B- Metric Spaces	December 2021	Natural Volatiles & Essential Oils
32.	J. Beny, S. Jone Jayashree, P. Sagaya Leeli	A Generalized Fixed Point Theorem On Multivalued Mappings In B- Metric Spaces	December 2021	Natural Volatiles & Essential Oils

33	P. Sagaya Leeli, S.Jone Jayashree, J. Beny	An Approach For Solving Fuzzy Transportation Problem Using Allocation Table Method	December 2021	Natural Volatiles & Essential Oils
34	Dr. A. Jennie Sebasthy Pritha, Dr.A. Mary Priya Dharsini, Dr. A. Leema Maria Prakasam,	Some Fixed Point Theorem For Γ –Contraction In A Complete Partial B-Metric Spaces	December 2021	Natural Volatiles & Essential Oils
35	A.Saranya, I. Francina Nishandhi, F.S.Josephine	An Algorithm For Solving Quadratic Hesitant Fuzzy Transportation Problem	December 2021	Natural Volatiles & Essential Oils
36	A.Saranya, J.Merline Vinotha	Dual Hesitant Multi Objective Fractional Transportation Problem with Non- Linear Discount Cost	2021	International Journal of Aquatic Science
37	A.Saranya, J.Merline Vinotha	Environmentally Sustainable Multi Stage Multi Objective Multi Item Fixed Charge Solid Fractional Hesitant Fuzzy Transportation Problem	2021	International Journal of Aquatic Science
38	A. Theresal Jeyaseeli, S.Josephine Vinnarasi, Suzane Raj.L	Optimization of fuzzy Inventory model using Lagrangian method in Decagonal fuzzy number	December 2021	Natural Volatiles & Essential Oils
39	S.Josephine Vinnarasi., A. Theresal Jeyaseeli, Suzane Raj.L,	Analysis of multi server queues with pentagonal fuzzy number by flexible alpha cut method	December 2021	Natural Volatiles & Essential Oils
40	Dr. I. Francina Nishandhi, A. Saranya and F.S. Josephine	Integrated Inventory Model With Freight Cost And Two Types Of Quantity Discounts Along With The Carbon Regulations Parameters Such As Carbon Tax And Cap And Trade	December 2021	Natural Volatiles & Essential Oils
41	Aishwarya.R	Multi Objective Multi Item Fuzzy Trans-Shipment Problem With Congestion Charge.	December 2021	Natural Volatiles & Essential Oils

42	Dr. S. Katrin Lydia, Dr. M. Mary Jancirani, A. Alphonse Anitha	Numerical Solution Of Nonlinear Fractional Differential Equations Using Kharrat-Toma Iterative Method	December 2021	Natural Volatiles & Essential Oils
43	M.Maragatham, Suzane Raj.L	Implementation of Modified Best Candidate method in Fuzzy Assignment problem	November 2021	YMER
44	M.Maragatham, Suzane Raj.L	An approach to solve Hexagonal Fuzzy assignment problem using Modified Best Candidate method and comparative study with existing methods	November 2021	YMER
45	Suzane Raj.L, S.Josephine Vinnarasi., A. Theresal Jeyaseeli	An approach to solve pentagonal Fuzzy assignment problem using Modified Best Candidate method	December 2021	Natural Volatiles & Essential Oils
46	I. Shiny Bridgette, Dr.S.Rexlin Jeyakumari	A Fuzzy Inventory Model with various source of pollution using Decagonal Fuzzy Number	June 2022	IJRAR
47	Dr.I. Antonitte Vinoline, P. Janavarthini	Covid-19 Integrated Inventory Model with Lead Time and Ordering Cost Reduction Using Linear Case Function	June 2022	Journal of Algebraic Statistics
48	Dr.I. Antonitte Vinoline, P. Janavarthini	Sustainable Economic Production Quantity model for Product Return policy with Shortage	May 2022	Journal of Algebraic Statistics
49	Dr.A.Theresal Jeyaseeli	Solving Fuzzy Transportation Problem Using Zero Suffix And Heuristic Method With Two Distinct Fuzzy Numbers	June 2022	Journal of Algebraic Statistics
50	Dr.A.Theresal Jeyaseeli	Optimization of octagonal fuzzy number in EOQ Model Using Lagrangian Method with beta distribution	June 2022	Journal of Algebraic Statistics
51	Dr.S.Josephine Vinnarasii	Exploration on bulk arrival queues with heptagonal and decagonal fuzzy parameters	May 2022	Journal of Algebraic Statistics
52	Dr.S.Josephine Vinnarasii	Analysis an retrial queues with hexagonal fuzzy parameters	June 2022	Journal of Algebraic Statistics
53	C.Gladia Vincy , M.Mary Mejrullo Merlin	A comparative Analysis of food grain packaging based on Consumer Perception by using New Novel and improved accuracy functions under	June 2022	Stochastic Modeling & Applications

		Interval Valued Intuitionistic Fuzzy Setting		
54.	S. ArokiaMary and M.Mary Mejrullo Merlin	A Study of Causal Influence of Self- beliefs on Emotional Intelligence using Fuzzy Relational Map Model and Waspas Method in Picture Fuzzy Environment	January 2022	Advances and Applications in Mathematical Sciences
55.	S. ArokiaMary and M.Mary Mejrullo Merlin	Construction of Fuzzy Relational map based on Hesitant Fuzzy Sets with an application to model the causal influence of self-beliefs related to emotional intelligence on leadership	May 2022	Advances and Applications in Mathematical Sciences
56.	S. ArokiaMary and M.Mary Mejrullo Merlin	Influence of Epistemological beliefs on Academic Performance: A Study using Fuzzy Relational Map Weighted with Triangular and Trapezoidal Fuzzy Numbers	June 2022	Advances and Applications in Mathematical Sciences
57.	J. Merline Vinotha and Saranya. A	Ecological Multi-Item Multi-Objective Transportation Problem With The Mode Of Preference By Mcdm In Pythagorean Hesitant Fuzzy Environment	June 2022	Stochastic Modeling & Applications