

PROFILE

Name: Dr. I. ANTONITTE VINOLINE

Department : MATHEMATICS

Qualification: M.Sc., M.Phil., B.Ed., PGDCA, SET, Ph.D.,

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ACADEMIC PROFILE

S.No.	Degree / Diploma	Subject / Main	Name of the College / University
1.	UG	B.Sc. Mathematics	Holy Cross College (Autonomous), Trichy.
2.	PG	M.Sc. Mathematics	Holy Cross College (Autonomous), Trichy.
3.	M.Phil.	Mathematics	Madurai Kamaraj University, Madurai.
4.	B.Ed.	Mathematics	Tamilnadu Teachers Education University, Chennai – 600005.
5.	SET	Mathematics	Mother Teresa University, Kodaikanal.
6.	Ph.D.	Mathematics(Inventory Models in Operations Research)	Bharathidasan University, Trichy.

TECHNICAL QUALIFICATION – POST GRADUATE DIPLOMA IN COMPUTER APPLICATION

Operating Systems : Windows2000 (98/XP/2000, 2007, Vista)
Programming : C, C++, VB, Java, Oracle, Html, R, Python
Packages : MS Word, Excel, Access, PowerPoint

PROFESSIONAL SUMMARY

Passionate educator with nearly 18 years of experience, driven by a strong desire to help students recognize the connection between learning and real-world applications. A strong communicator who confidently delivers clear and engaging lectures in the classroom. Possessing an outgoing, energetic, and motivating personality that encourages students to actively participate in class discussions and appreciate the value of collaborative group work. A dedicated team player who contributes to departmental objectives, fostering an optimal experience for both students and faculty. Consistently striving to create a challenging and engaging learning environment where students develop into lifelong scholars and learners. Committed to staying updated with the latest educational practices to ensure the highest quality of teaching. Eager to inspire intellectual curiosity and cultivate critical thinking skills in students.

SUBJECTS OF EXPERTISE

Operations Research, Calculus, Trigonometry, Numerical Analysis, Complex Analysis, Differential Equations, Statistics.

CORE COMPETENCIES

- Effective time management skills.
- Self-motivation.
- Excellent interpersonal skills.
- Strong analytical, logical and mathematical skills.
- Commitment to the profession.
- Adaptability to new teaching methods and technologies.

LEADERSHIP PROFILE

- Staff Secretary of Shift - II(2016 -2017)
- Coordinator of Mathematics Department (Shift II) (2013 – 2015)
- Department Association President (2007-2008, 2017-2018, 2020 -2021 & 2021 -2022)
- Coordinator - Women's Cell (2007 – 2010 & 2011 – 2013)
- Alumnae In-charge – Shift – II (2017 – 2018)
- Rotaract Staff Coordinator (2018 - 2022)
- Core Committee member for NAAC Parameter I(2020 - 2022)
- Fine Arts Coordinator (From June 2022 onwards)

MEMBERSHIP IN VARIOUS BODIES

- Doctoral Committee Member in Bharathidasan University.

RESEARCH ADVISOR

- M.Phil, Bharathidasan University, Ref No. 1135/M.Phil/RA/ Mathematics/ 2017/ Date: 20.06.2017
- Ph.D, Bharathidasan University, Ref No. 003924/Ph.D./K12/Mathematics/ R.A./ 26.05.2020

PUBLICATIONS

1. Ritha .W, **Antonitte Vinoline .I.**, *Environmentally Sustainable Inventory Model under Permissible Delay in Payments*, International Journal of Computers and Technology, Volume 11, No.10, December 2013, Pages 3071 -3078, ISSN : 2277 – 3061, Impact Factor 1.532.
2. Ritha .W, **Antonitte Vinoline .I.**, *Environmentally Responsible Repair and Waste Disposal Inventory Models*, Aryabhata Journal of Mathematics and Informatics, Volume 6, No.1, June 2014, Pages 1 – 8, ISSN : 0975- 7139, Impact factor : 0.489.
3. Ritha .W, **Antonitte Vinoline .I.**, *Quality Improved Integrated Inventory Model with Trade Credit and Preservation Technology*, Elixir Applied Mathematics, Volume 72, July 2014, Pages 25764 – 25777, ISSN: 2229 – 712x.

4. Ritha .W, Antonitte Vinoline .I., *Optimization of EPQ Inventory Models of Two Level Trade Credit with Payment Policies under Cash Discount*, Annals of Pure and Applied Mathematics , Volume 8, No.1, October 2014, Pages 39 – 55, ISSN : 2279 – 087x(P) , 2279 – 0888 (Online), Impact Factor : 1.0285.
5. Ritha .W, Antonitte Vinoline .I., *A Comprehensive Extension of an Integrated Inventory Model with Ordering Cost Reduction and Permissible Delay in Payments*, International Journal of Applied Computational Science & Mathematics (IJACSM), Volume 5, No.1, 2015, Pages 44 – 57, ISSN : 2249 – 3042, Impact Factor : 1.227.
6. Ritha .W, Antonitte Vinoline .I., *Research on Supply Chain Inventory Optimization and Benefit Coordination with Controllable Lead Time*, International Journal of Engineering Associates (IJE), Volume 4, Issue 4, 2015, Pages 37 – 43, ISSN : 2320 – 0804, Impact Factor : 0.23.
7. Ritha .W, Antonitte Vinoline .I., *An Inventory Model for Deteriorating Items under Conditionally Permissible Delay in Payments Depending on the Order Quantity*, International Journal of Advanced and Innovative Research (IJAIR), Volume 4, Issue 4, April 2015, Pages 380 – 390, ISSN : 2278 – 7844, Impact Factor : 0.349.
8. Ritha .W, Antonitte Vinoline .I., *Manufacturing Setup Cost Reduction and Quality Improvement for the Distribution Free Continuous Review Inventory Model with a Service Level Constraint*, International Journal of Research in Engineering and Applied sciences, Volume 5, Issue 9, September 2015, Pages 15-29, ISSN : 2249 – 3905, Impact Factor : 5.981.
9. Ritha .W, Antonitte Vinoline .I., *An Order Size Dependent Trade credit Integrated Inventory Model with Capacity constraint*, International Journal of Mathematics and Computer Research, Volume 3, Issue 10, October 2015, Pages 1168 – 1181, ISSN: 2320 -7167.
10. Ritha .W, Antonitte Vinoline .I., *An Inventory Model for Defective Items with Trade Credit and Inflation*, International Journal of Engineering Associates (IJE), Volume 4, Issue 12, December 2015, Pages 10 – 17, ISSN : 2320 – 0804, Impact Factor : 0.23.
11. Ritha .W, Antonitte Vinoline .I., *An Economic Order Quantity Model for Weibull Distribution Deterioration with Selling Price Sensitive Demand and Varying Hold Cost*, International Journal of Pure and Applied Mathematics Vol 118, No. 6, ISSN: 1311-8080 (printed version); ISSN: 1314-3395 (on-line version), Pages 499-507, January 2018.

12. **Antonitte Vinoline .I.,** *An Inventory Model for Perishable Products with Shortages and Price Dependent Demand*, American International Journal of Research in Science, Technology, Engineering & Mathematics, ISSN(Print): 2328-3491, ISSN(Online): 2328-3580, ISSN(CD-ROM): 2328 – 3629, Pages 73-76, February 2019.
13. **Antonitte Vinoline .I,** Ritha .W, Merline Vinotha .J, Nivetha Martin., *An Inventory Model based on Manufacturer Direct Business Model with the help of E-Commerce Trading Strategies*, International Journal of Innovative Technology and Exploring Engineering(IJITEE), ISSN: 2278-3075, Volume 8, Issue 6S4, Pages:1487 – 1492, April 2019.
14. Ritha .W, Merline Vinotha .J, **Antonitte Vinoline .I,** Nivetha Martin., *Research on Fuzzy Three Stage Tandem Queues*, International Journal of Innovative Technology and Exploring Engineering(IJITEE), ISSN: 2278-3075, Volume 8, Issue 6S4, Pages:1478 – 1481, April 2019.
15. Nivetha Martin., Ritha .W, Merline Vinotha .J, **Antonitte Vinoline .I.,** *Education and Employment are Two Poles- A Research using Fuzzy cognitive Linguistic Multimaps*, International Journal of Innovative Technology and Exploring Engineering(IJITEE). ISSN: 2278-3075, Volume 8, Issue 6S4, Pages:1482 – 1486, April 2019.
16. Merline Vinotha .J, Ritha .W, **Antonitte Vinoline .I,** Nivetha Martin, Vijayalakshmi .P., *Multi – Objective Multi Time Span Fractional Capacitated Transportation Problem in the Two Echelon Supply Chain with Multiform Items and Mixed Constraints*, International Journal of Recent Technology and Engineering(IJRTE), ISSN: 2277 – 3878, Volume 8, Issue 2S3, July 2019.
17. Nivetha Martin, Ritha.W, **Antonitte Vinoline .I,** Selvi .P., *Analysis of the Risk Ebola Virus Disease: Fuzzy Vikor Method Based on the Possibility Theory*, International Journal of Management and Applied Science, ISSN: 2394 – 7926, Volume 5, Issue 9, September 2019.
18. **Antonitte Vinoline .I,** Nivetha Martin, Ritha .W., *An Integrated Inventory Model with Shortages and Screening Process under Conditions of Permissible Delay in Payments*, International Journal of Management and Applied Science, ISSN: 2394 – 7926, Volume 5, Issue 9, September 2019.
19. **Antonitte Vinoline .I,** Ritha .W, Merline Vinotha .J, Nivetha Martin., *The Optimal Ordering Policy of the Retailer in Diverse Commercial Atmosphere with Permitted*

- Delay in Payments*, TEST Engineering and Management, ISSN: 0193 – 4120, Pages: 7325 – 7332, February 2020.
20. Ritha .W, Theresal Jeyaseeli .A, **Antonitte Vinoline .I**, Merline Vinotha .J , Nivetha Martin., *Fuzzy Geometric Programming Approach to Food Supply Chain Model*, TEST Engineering and Management, ISSN: 0193 – 4120, Pages: 7317 – 7324, February 2020.
 21. **Antonitte Vinoline .I**, Ritha .W, Merline Vinotha .J., *Environmentally Sustainable Inventory Model with the Impact of Trade Credit and Partial Backordering*, European Journal of Molecular & Clinical Medicine, ISSN: 2515 -8260, Volume 7, Issue 9, Pages: 3095 – 3106, 2020.
 22. Merline Vinotha .J, Ritha .W, **Antonitte Vinoline .I.**, *An Algorithm for Multi Objective Fuzzy Fractional Transportation Problem*, European Journal of Molecular & Clinical Medicine, ISSN: 2515 -8260, Volume 7, Issue 9,Pages: 3142 – 3153, 2020.
 23. Selvi .P, Ritha .W, Merline Vinotha .J, **Antonitte Vinoline .I.**, *Economic Order Quantity Model for Sustainable Inventory Considering Different Sources of Environmental Cost along with the Non – Environmental Cost*, European Journal of Molecular & Clinical Medicine, ISSN: 2515 -8260, Volume 7, Issue 9, Pages: 3107 – 3116, 2020.
 24. **Antonitte Vinoline .I**, Ritha .W, Merline Vinotha .J., *A Multi-item Inventory Pricing Model with a Rate of Production Proportional to the Rate of Power Demand*, Natural Volatiles and Essential Oils, Volume 8, Issue 4, Pages: 9809 -9819, 2021.
 25. Merline Vinotha .J, Brigith Gladys L., Ritha .W, **Antonitte Vinoline .I.**, *Fuzzy Soft Set Based Multiobjective Fuzzy Transportation Problem Involving Carbon Emission Cost Linked with the Travelling Cost*, Natural Volatiles and Essential Oils, Volume 8, Issue 4, Pages: 9820 -9837, 2021.
 26. Yasodai .P, Ritha .W, Merline Vinotha .J, **Antonitte Vinoline .I.**, *Cost Analysis of Fuzzy Tandem Queues Using a Parametric Relation Pair*, Natural Volatiles and Essential Oils, Volume 8, Issue 4, Pages: 9965 -9978, 2021.
 27. **Antonitte Vinoline .I**, Janavarthini .P., *Covid-19 Integrated Inventory Model with Lead Time and Ordering Cost Reduction using Linear Case Function*, Journal of Algebraic Statistics, ISSN: 1309 -3452, Volume 13, No. 3, Pages: 196 - 204, 2022

28. **Antonitte Vinoline .I,** Janavarthini .P., *Sustainable Economic Production Quantity Model for Product Return Policy with Shortage*, Journal of Algebraic Statistics, ISSN: 1309 - 3452, Volume 13, No. 3, Pages 3571 - 3589, 2022.
29. **Antonitte Vinoline .I,** Janavarthini .P., *EPQ Model Considering CP Technique in an Uncertain Environment*, European Chemical Bulletin, ISSN: 2063 - 5346, Volume 12, Special Issue 2, Pages 2237 - 2242, July 2023.
30. **Antonitte Vinoline .I,** Deepika .M., *A Study on the Effect of sales Forecasting on the Enterprises*, European Chemical Bulletin, ISSN: 2063 - 5346, Volume 12, Special Issue 2, Pages 2243 - 2250, July 2023.
31. **Antonitte Vinoline .I,** Jerinrechal .S., *ERQ Model for Imperfect Production System under Enhanced Preventive Maintenance Strategy*, European Chemical Bulletin, ISSN: 2063 - 5346, Volume 12, Special Issue 2, Pages 2251 - 2260, July 2023.
32. **Antonitte Vinoline .I,** Deepika .M., *A Sustainable Inventory Model using an Automation Policy for an Imperfect Production System*, Proceedings of International Conference on Applied Mathematics & Nanoscience, Vidhya Academy of Science & Technology, Thrissur, Pages 10 – 20, January 2024.
33. **Antonitte Vinoline .I,** Jerinrechal .S., *Optimizing Sustainable Production Quantity Mode Incorporating CCS Technology and Mitigating Greenhouse Gas and Wastewater Emissions*, Proceedings of International Conference on Applied Mathematics & Nanoscience, Vidhya Academy of Science & Technology, Thrissur, Pages 21 – 28, January 2024.
34. **Antonitte Vinoline .I,** Janavarthini .P., *Inventory Optimization Model to Increase Profit Considering Parabolic Holding Cost*, Journal of Propulsion Technology, Vol. 45, No. 3, Pages 3151 -3156, 2024.

CONFERENCE/SEMINAR/WORKSHOP/ TRAINING PROGRAMME ATTENDED - ACADEMIC & GENERAL

2014 -2015

- National Conference on “Graph Theory and Operations Research”, Holy Cross College(Autonomous), Trichy, 3rd & 4th March, 2014.
- UGC Sponsored National Conference on “Discrete Mathematics”(NCDM), St. Joseph’s College(Autonomous), Trichy, 9th & 10th January, 2015.

2017 – 2018

- International Conference on “Mathematical Methods and Computation” (ICOMAC 2017), Jamal Mohamed College(Autonomous), Trichy, 11th December, 2017.
- Workshop on “Teaching and Learning”, St. Joseph’s College of Law, Bangalore, 11th to 15th December, 2017.
- State Level Inter-Collegiate Competition and Seminar on “Goodness of God and Nature”, Holy Cross College(Autonomous), Trichy, 6th January, 2018.

2018 – 2019

- International Seminar on “Present Trends in Applications of Mathematics”, Holy Cross College(Autonomous), Trichy, 18th December, 2018.
- International Conference on “Mathematical Methods and Computation” (ICOMAC 2019), Jamal Mohamed College(Autonomous), Trichy, 20th & 21st February, 2019.
- Heber International Workshop on “Global Supply Chain Management and DEA”, Bishop Heber College(Autonomous), Trichy, 11th & 12th March, 2019.

2019 – 2020

- International Conference on Engineering and Natural Science, Kuala Lumpur, Malaysia, 1st & 2nd May, 2019.
- International Workshop on “Python Programming”, Jamal Mohammed College, Trichy, 18th February, 2020.
- International Conference on “Mathematical Methods and Computation – ICOMAC 2020”, Jamal Mohammed College, Trichy, 19th February, 2020.

2020 – 2021

- Webinar on “Mathematical Documentation and Computation using Online Tools”, St. Mary’s College (Autonomous), Thoothukudi, 28th & 29th May, 2020.
- Webinar on “Interesting Features of Integral Equations”, Holy Cross College(Autonomous), Trichy, 28th May, 2020.
- Webinar on “Doing Mathematics using Softwares”, Holy Cross College(Autonomous), Trichy, 29th May, 2020.
- National Webinar on “Fractals via Fixed Point Theory”, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam, Theni, 3rd June, 2020.

- Webinar on “Applications of Fuzzy Mathematics”, Sengamala Thayaar Educational Trust Women’s College, Mannarkudi, 15th June, 2020.
- International Web Conference on “Advances in Mathematics”, St. Mary’s College (Autonomous), Thoothukudi, 17th – 19th June, 2020.
- One day Webinar on “Statistics for Data Analytics”, KPR Institute of Engineering and Technology(Autonomous),Coimbatore, 19th June, 2020.
- Webinar on “ Optimization Models using Fuzzy Numbers”, Holy Cross College (Autonomous), Trichy, 30th June, 2020.
- State Level Webinar on “Applications of Various Divisions of Mathematics in Graph Theory”, Holy Cross College(Autonomous), Trichy, 25th July, 2020.
- Webinar on “ Designing Finite State Automata”, Holy Cross College(Autonomous), Trichy, 1st August, 2020.
- International Seminar on “Present Trends in Applications of Mathematics”, Holy Cross College(Autonomous), Trichy, 16th & 17th November, 2020.
- “NDLI Awareness Webinar”, National Digital Library of India & Holy Cross College(Autonomous), Trichy, 22nd May, 2020.
- Webinar on “Optimizing Family During Lockdown”, Holy Cross College (Autonomous), Trichy, 19th May, 2020.
- Webinar on “Healthy parenting Styles”, Holy Cross College(Autonomous), Trichy, 27th May, 2020.
- Webinar on “Seed and Weed – Nurturing Relationships”, Holy Cross College (Autonomous), Trichy, 2nd June, 2020.
- Webinar on “Menstrual Hygiene & Reproductive Health Care”, Alumnae Association, Holy Cross College (Autonomous), Trichy, 3rd June, 2020.
- Webinar on “Obesity and its Role in Breast Cancer”, CICRSD, Holy Cross College(Autonomous), Trichy, 6th June, 2020.
- Faculty Development Webinar on “Andragogy of Online Teaching”, IQAC, Holy Cross College (Autonomous), Trichy, 29th May, 2020.
- Webinar Series on “ Reimaging Research in the Era of “Disruptions and Uncertainties”, Center for Research Development, Holy Cross College(Autonomous), Trichy, 21st May, 2020.
- Webinar Series II on “ STRIDE Tutorial on Transdisciplinary Research”, Center for Research Development, Holy Cross College(Autonomous), Trichy, 11th June, 2020.

- Faculty Development Webinar Series on “Remote Classrooms – Digital Technology in Teaching Learning” IQAC, Holy Cross College (Autonomous), Trichy, 30th May, 2020.
- National Innovation Webinar on “Social Innovation and Change Management”, IIC, Holy Cross College (Autonomous), Trichy, 5th June, 2020.
- Webinar on “Combat the Pandemic Stress through Yoga”, Holy Cross College(Autonomous), Trichy, 21st June, 2020.
- Faculty Orientation Webinar on “ICT Tools for the 21st Century Teacher”, Department of Computer Science, Holy Cross College(Autonomous), Trichy, 10th July, 2020.
- One Week Online Faculty Development Program on “Artificial Intelligence and IOT – Heuristic Transdisciplinary Perspectives, CICRSD, Holy Cross College (Autonomous), Trichy, 4th – 10th July, 2020.
- FDP – Webinar Series III, Center for Research Development, Holy Cross College(Autonomous), Trichy, 13th – 18th July, 2020.
- Webinar on “The Implications of the NEP 2020 for Higher Education and Role of Teachers” IQAC, Holy Cross College(Autonomous), Trichy, 25th August, 2020.
- Webinar on “Addressing Challenges in Higher Education through the OBE mode”, IQAC, Holy Cross College(Autonomous), Trichy, 4th Jnauary, 2020.

2021 - 2022

- Five Days Online International Faculty Development Programme on “New Epoch in Software Learning”, Holy Cross College (Autonomous), Trichy, 16th – 20th August, 2021.
- Webinar Series VI – Boot Camp, Holy Cross Incubation & Innovation Council(HCIIC), Holy Cross College (Autonomous), Trichy, 31st August – 1st September 2021.
- Five Days Online International Faculty Development Programme on “Blended and Inclusive Strategies in Artificial Intelligence and Machine Learning”, Holy Cross College (Autonomous), Trichy, 18th - 22nd October, 2021.
- Heber International Conference on Applied Mathematics, Management, Computer Science and Statistics, Bishop Heber College(Autonomous), Trichy, 18th March, 2022.

2022 - 2023

- Two Days In-service Teacher Training Programme on Mathematical Sciences , PG and Research Department of Mathematics, Thanthai Periyar Government Arts and Science College, Trichy, 5th and 6th May – 2022.
- UGC Sponsored Ninth Online Faculty Induction Programme, Bharathidasan University, Tiruchirappalli, 1st -30th June, 2022
- Online Two Week Refresher Course in Mathematical Sciences, Ministry of Education, Teaching Learning Centre, Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching, Ramanujan College, 26th September - 10th October, 2022.
- Ten days Faculty Refresher Program on Teaching, Learning and Research in HEI's, IOT Academy, Coimbatore, 3rd -13th January, 2023.
- National level FDP on Innovative Teaching Methods and ICT Tools & Online Resources, IOT Academy, Coimbatore, 27th &28th February, 2023.
- Workshop on “Python & R Programming”, Holy Cross College(Autonomous), Trichy, 12th &13th July, 2022.
- One Week National Workshop on Artificial Intelligence and Machine Learning”, Council of Scientific & Industrial Research (CSIR), Baba Farid College, Bathinda, Punjab, 15th -21st November, 2022.
- International Conference on Mathematical Methods and Computation, Jamal Mohamed College (Autonomous), Trichy, 21st &22nd December 2022.
- International Conference on Recent Trends in Applications of Mathematics, Holy Cross College (Autonomous), Trichy, 9th & 10th January 2023.

2023 - 2024

- Online Two Week Inter Disciplinary Refresher Course in Managing Online Classes & Co – Creating MOOCS 27.0, Ministry of Education, Teaching Learning Centre, Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching, Ramanujan College, 06th - 20th June, 2023.
- One day In-service faculty workshop on manipulation and analysis of data in SPSS, Holy Cross College (Autonomous), Trichy, 14th July, 2023.
- International Conference on “Recent Trends in Applications of Mathematics”, Holy Cross College (Autonomous), Trichy, 4th August, 2023.

- International conference on “Navigating Research Impact: Metrics, Strategies and Ethical Considerations”, Holy Cross College (Autonomous), Trichy, 23rd September, 2023.
- National conference on “The Evolving Landscape: Exploring Possibilities and Challenges for the Girl Child in a Dynamic World”, Holy Cross College (Autonomous), Trichy, 24th January, 2023
- Online Two Week Inter Disciplinary Refresher Course in Advanced Research Methodology, Ministry of Education, Teaching Learning Centre, Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching, Ramanujan College, 23rd March - 05th April, 2024.

2024 - 2025

- One day In-Service Faculty Workshop on Geogebra, Holy Cross College (Autonomous), Trichy, 16th July, 2024.
- Six Days Online Workshop on Statistical Modelling in R Programming by Using R Studio, New Research and Innovation Society, Chennai, 29th July – 03rd August, 2024.
- One day National Level Workshop on Suicide Prevention and Gatekeeping Training, Crossian Live Wire, Holy Cross College (Autonomous), Trichy, 30th August, 2024.

PAPER PRESENTATIONS

- *“Quality Improvement Integrated Inventory Model with Various Cost”*, National Conference on “Graph Theory and Operations Research”, Holy Cross College(Autonomous), Trichy, 3rd & 4th March, 2014.
- *“An Economic Order Quantity model for Weibull Distribution Deterioration with Selling Price Sensitive Demand and Varying Holding Cost”*, International Conference on “Mathematical Methods and Computation” (ICOMAC 2017), Jamal Mohamed College(Autonomous), Trichy, 11th December, 2017.
- *“An Inventory Model for Perishable Products with Shortages and Price Dependent Demand”*, International Conference on “Mathematical Methods and Computation” (ICOMAC 2019), Jamal Mohamed College(Autonomous), Trichy, 20th & 21st February, 2019.

- ***“Analysis of the Risk of Ebola Virus Disease: Fuzzy VIKOR Method based on the Possibility Theory”***, International Conference on Engineering and Natural Science, Kuala Lumpur, Malaysia, 1st & 2nd May, 2019.
- ***“An Integrated Inventory Model with shortages and screening Process under Conditions of Permissible Delay in Payments”***, International Conference on Engineering and Natural Science, Kuala Lumpur, Malaysia, 1st & 2nd May, 2019.
- ***“A Study on the Effect of Sales Forecasting on the Enterprises”***, International Conference on Mathematical Methods and Computation, Jamal Mohamed College (Autonomous), Trichy, 21st & 22nd December 2022.
- ***“EOQ Model under Learning Effect in Inspection Errors with Imperfect Quality Items”***, International Conference on Mathematical Methods and Computation, Jamal Mohamed College (Autonomous), Trichy, 21st & 22nd December 2022.
- ***“An Integrated Warehouse System Using AS/RS (Automated Storage and Retrieval System) Technology”***, International Conference on Recent Trends in Applications of Mathematics, Holy Cross College (Autonomous), Trichy, 9th & 10th January 2023.
- ***“EOQ Model for Imperfect Production System under Enhanced Preventive Maintenance Strategy”***, International Conference on Recent Trends in Applications of Mathematics, Holy Cross College (Autonomous), Trichy, 9th & 10th January 2023.

VISIT TO FOREIGN COUNTRIES

Presented a paper on the topic **“An Integrated Inventory Model with Shortages and a Screening Process under Conditions of Permissible Delay in Payments”** at the International Conference on Engineering and Natural Science, organized by the Institute of Research Engineers and Scientists, Kuala Lumpur, Malaysia, on 1st and 2nd May 2019.

PATENT

Year	Agent	Patent Number	Title of Invention	Publication Date
2021	Government of India	20214108080	A machine learning regression vector for managing various aspects in the field of agriculture	30.04.2021
2022	Government of India	202221019944	Analysis of amikacin in human serum by UHPLC with fluorescence detector	22.04.2022

2022	Government of India	202241020636	Detecting and diagnosing of cancer using a convolutional neural network system	22.04.2022
2022	Government of India	202241027403	Detection of breast cancer using deep learning method	27.05.2022
2023	Government of India	202341055335	Sustainable zero waste management practices for green environmental sustainability	01.09.2023

BOOKS PUBLISHED

- Sustainable waste management strategies for greener and eco - friendly environment, Scientific International Publishing House, 2023.
- Modeling for Sustainable Development: A Multidisciplinary Approach, Alpha International Publication, 2024.

AWARDS

Received Indian Teacher Award on July 2021 from International Research Association, England, United Kingdom.

Received Best Faculty Award on August 2023 from Knowledge Research Academy, Coimbatore, Tamilnadu.

RESIDENTIAL ADDRESS

No.3, Lourdu Matha Kovil Street,
Sangiliyandapuram,
Trichy – 620001.