

Faculty Profile



**Dr. V. Sivan,
M.Sc., M.Phil., Ph.D.**

HIGHLIGHTS:

- Number of Journal Publications: 11
- H-Index: 2
- Project Funding Received: Nil
- Patents Published: Nil
- Patents Granted: Nil
- Journal Publications details:

Year 2024- 2025

11 Smart DC Fan Speed Controlling using Passive Infrared Sensor and Temperature sensor, Nanotechnology Perceptions , ISSN 1660-6795, www.nano-ntp.com. Vol. 20 No. S7 (2024), page No.1 -13.

10 Some Bench Mark Results on Total Domination Subdivision Stable Graph, Communications on Applied Nonlinear Analysis ISSN: 1074-133X, Vol 31 No. 4s (2024). Page No – 371-377.

Year 2023- 2024

9 A Fuzzy Innovative Ordering Plan using Stock Dependent Holding Cost of Inspection with Shortages in Time Reliability demand using TFN. Reliability: Theory & Applications. 2023, December 4(76): 921-939, DOI: <https://doi.org/10.24412/1932-2321-2023-476-921-939>.

Up to Calendar Year 2020

8 Inventory Planning of Varying Production Model for Changing Deterioration Items with Triangular Demand. Test Engineering and Management and Published by: The Mattingley Publishing Co., Inc. Volume 83. Page Number 3139- 3156 Publication issue July – August 2020 ISSN: 0193-4120.

7 A Deteriorating Inventory Model of EOQ with Beta Distributed in quadratic time function Demand and fully Backlogged with Shortages. European Journal of Molecular & Clinical Medicine ISSN: 2515-8260 Volume 7, Issue 4, 2020 , Page Number : 1897 – 1905.

- 6 Inventory planning of changing production model for variable deterioration items with demand in linear equation without constant term. European Journal of Molecular Clinical Medicine ISSN: 2515-8260 Volume 7, Issue 4, 2020, Page Number: 1906 – 1916.
- 5 Inventory model for health service firms in quadratic demand of parabolic holding cost with shortages. European Journal of Molecular & Clinical Medicine ISSN 2515-8260 Volume 7, Issue 4, 2020, Page Number: 1917 – 1928.
- 4 Estimation of EOQ Model for Drug Inventory in Wellness Industries Using Time Dependent Negative Exponential Demand and Holding Cost of Linear Equation Without Constant Term Jour of Advanced Research in Dynamical & Control Systems, Vol. 12, 05-Special Issue, 2020 DOI: 10.5373/JARDCS/V12SP5/20201738 ISSN 1943-023X
- 3 A Planning of Inventory Problem in Time Varying Quadratic Demand and Cubic Holding Cost of Advertisement Cost with Salvage Value. Test Engineering and Management and Published by: The Mattingley Publishing Co., Inc.Vol(83), 2020ISSN:0193-4120 Page No. 19178 - 19191.
- 2 Deteriorating Inventory Planning Model with Rectangular and Triangular Distributed Demand of Fully Backlogged Shortages International Journal of Advanced Science and Technology Vol. 29, No. 7s, (2020), pp. 4617 – 4629 ISSN: 2005-4238 IJAST
- 1 A Joint Activity Of Single Retailer And Single Supplier With Price Dependent Demand In Changeable Decision Of Lead Time With Shortages Advances In Mathematics: Scientific Journal (2020), no.7, 4641–4658 ISSN:1857-8365.

PROFESSIONAL LINKS:

- Scopus ID: **57218366393**
- Scopus Link: <https://www.scopus.com/authid/detail.uri?authorId=57218366393>
- Google Scholar Link ID: <https://scholar.google.com/citations?user=QFcK-iAAAAAJ&hl=en>
- Anna University Faculty ID: 2122593
- Orchid Id: <https://orcid.org/0000-0002-4631-1184>
- AICTE Faculty ID: 12194462412
- Anna University Supervisor ID: Nil
- LinkedIn: Nil

PROFESSIONAL BACKGROUND:

- Teaching Experience till date: 19 Years 6 Months
- Industrial Experience: Nil

INTERNATIONAL EXPOSURE: Nil

AREA OF SPECIALIZATION:

- Broad field: Operations Research
- Title: Inventory Management and Control using Optimization with Supply Chain Systems and Fuzzy Logic

Ph.D. AWARDED WITH DETAILS:

- **Ph.D.** ((Mathematics): June 2023 at **Thiruvalluvar University** Vellore – 632 115.
(Government University)

SPONSORED RESEARCH / FUNDING APPLIED / CONSULTANCY: Nil**PATENTS PUBLISHED/GRANTED: Nil****COURSES CERTIFIED: Four (NPTEL)**

1. **Fuzzy sets, Logics and System & Application** with **ELITE SILVER** on January 2023 to April 2023 session (Roll No: **NPTEL22EE21S14531596**)
2. **Data Analysis and Decision Making (DA&DM)** in July 2022 to October -2022 session
(Roll No: **NPTEL 22MG59S54460766**)
3. **Data Analytics with Python** in January 2023 to April 2023 session
(Roll No: **NPTEL 23CS08S63880831**)
4. **Fundamentals of Artificial Intelligence** in July 2023 to October 2023 session
(Roll No: **NPTEL 23GE40S533501032**)

ACHIEVEMENTS AND AWARDS: Nil**SPECIAL SESSIONS DELIVERED: Nil****CONFERENCES/SEMINARS/WORKSHOPS ATTENDED:****International Conferences(Paper presented)**

- 1 Presented a paper entitled “Single Retailer’s Optimal Ordering Policy With Variable Deteriorating Inventory Model of three Different Payment Strategy in Selling Price and Promotional effort Dependent Demand”, during **15.07.2022 to 16.07.2022** at Department of Humanities and Science, Rajalakshmi Institute of Technology, Chennai **ISBN : 978-93-5655-888-5** Proceedings of the International Conference on Recent Developments in Applied Sciences (ICRDAS – 2022).
- 2 Presented a paper entitled “ An Attempt of Replenishment Policy using Pentagonal Fuzzy Numbers with Weibul Distribution of Partially Backlogged Shortages in Time Pricing and Promotional Effort Dependency Demand”, during **15.07.2022 to 16.07.2022**, at a two day National conference on Discrete mathematics and its applications by department of mathematics Velammal College of Engineering and technology Madurai- 625009.
- 3 Presented a paper entitled “Inventory Models“, International Conference On Dynamical Systems, Control and their Applications, during **01.07.2022 to 03.07.2022** organized by

- 4 Presented a paper entitled “A Fuzzy Innovations in Production Inventory of Single And Double Production Rate in Stock Dependent Holding Cost With Preservation Technology Using Trapezoidal Fuzzy Numbers”, at International Conference on Mathematical techniques and application at SRM institute of Science and Technology, Kattankulathur Tamilnadu **23 .03.2022 to 25.03.2022.**
- 5 Presented a paper entitled “A Fuzzy Innovative Economic Order Quantity using Stock Dependent Holding Cost of Inspection with Shortages in Time Reliability Demand Using Triangular Fuzzy Numbers”. International Conference Mathematical and Statistical Computation on (ICMSC-2022) during **03.03.2022 to 05.03.2022** Organized by Department of Mathematics Swami Keshvan and Institute of Technology, Management & Gramothan Jaipur(Rajasthan), India.
- 6 Presented a paper entitled “An EPQ model for variable production cost of probabilistic deterioration with different demand rates”, International Conference on contemporary approaches in Mathematics and emerging Engineering trends at AVIT during **03.05.2017 to 05.05.2017**, proceeding ICCAMEET2017_048, ISBN : 978- 93-81899-77-9

PROFESSIONAL MEMBERSHIPS:

- Association of Inventory Academicians and Practitioners in India is, The Registered Office New Delhi 110015. India.

OTHER DETAILS (If any):

Experience in Other than the regular Curriculum (Five Years)

- Two years (2012 – 2014) worked as Part time (Guest) faculty in College of Engineering Guindy Chennai to take the Courses in Mathematics I & Applied Mathematics for Electricals Engineers..
- Aptitude Question Paper with explanation setting for “The Chennai School of Banking” at Thiagaraya Nagar.
- Aptitude Question Paper with explanation setting for “ Sri Venkateshwara College “ University of Delhi for first year admission screening test purpose.