

CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)
STAFF PROFILE

PERSONAL INFORMATION

1. Name : Dr. K. Kalaiarasi

2. Date of Birth : 25.02.1981

3. Address :

Residential	Office
Dr. K. Kalaiarasi No.6, North Vellala Street, Pandamangalam, Woraiyur, Trichy-620003 Tamilnadu	Dr. K. Kalaiarasi Assistant Professor, PG and Research Department of Mathematics Cauvery College for Women, Annamalai Nagar, Trichy-620018 Tamilnadu

ACADEMIC INFORMATION

4. Designation & Department : Assistant Professor

PG and Research Department of Mathematics

5. Educational Qualification :

Degree	Year	College/University
B.Sc Mathematics	April 2001	Holy Cross College, Bharathidasan University
M.Sc Mathematics	April 2003	Holy Cross College, Bharathidasan University
M.Phil Mathematics	March 2005	St. Joseph College, Bharathidasan University
Ph.D Mathematics	August 2013	Manonmanium Sundranar University ,Thirunelveli
*D.Sc (Doctor of Science - Mathematics)	Pursuing	Srinivasa University, Surathkal , Mangalore

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6. Researcher ID:

Linked in : <http://www.linkedin.com/pub/dr-kalaiaarasi-k/26/9/a52>

Google Scholar ID: MzISYJEAAAAJ

Orchid id: <https://orchid.org/0000-0001-6705-5354>

Scopus Author ID: 24512328500

Author ID: 57205761385

Mendeley:

<https://www.mendeley.com/search/?page=1&query=Optimization%20of%20fuzzy%20inventory%20EOQ%20model%20using%20kuhn-tucker%20method&sortBy=relevance>

Web of Science : <AAQ-7942-2020>

Research Gate ID: <https://www.researchgate.net/profile/Kkalaiaarasi-Kalaichelvan>

Website : <https://drkkalaiaarasi.org/>

Publons: <https://publons.com/researcher/1693974/kalai-arasi//>

Vidwan : <https://vidwan.inflibnet.ac.in/profile/205835>

Citations	217
h-index	8
i10-index	7

7. Experience :

Date of Joining	Institution	Year of Experience
16.06.2016	Cauvery college for women	7 years 9 Months
Dec-2014	Vel Tech University	1 Year ,6 Months
Dec-2013	Cambridge Institute of Technology	1 year
Dec-2010	CMRIT College	3 years
Dec-2008	SEA College	1 year
Dec-2003	Lowry Memorial College	5 years
Dec-2003	Urumu Dhanalakshmi College	1 year, 6 Months
Jun-2003	Holy Cross College	6 Months

8. Areas of Specialization : Fuzzy set theory and its applications

9. Languages known : Tamil, English

10. Subjects Taught :

UG	Mathematical Statistics I ,Mathematical Statistics II, Astronomy, Abstract Algebra , Matlab Programming in C language Practical,
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PG	Algebra, Linear Algebra, topology, Mathematical Statistics, Advanced Numerical Analysis
M.Phil	Research Methodology , Fuzzy set theory

11. Research Supervision:

	University from where guideship obtained	Thesis		
		Completed (in numbers)	Year of Completion	Pursuing (in numbers)
M.Phil	Bharathidasan University	12	2017-2022	2
P.hD	Bharathidasan University	3	-	4

12. Details of Publications:

S.No	Journal Name & Volume	Year of Publication	ISSN Number	Name of the Paper	Impact Factor
1.	Global journal of Pure and applied mathematics & 13	June 2017	0973-1768	An Introduction to fuzzy strong graphs, fuzzy soft graphs, complement of fuzzy strong and soft graphs	0.19
2.	International journal of current research & 9	July-2017	0975-833X	Arc sequence in complete and regular fuzzy graphs	7.749
3.	Global journal of mathematical science: Theory and practical & 9	Aug-2017	0974-3200	Regular and irregular m-polar fuzzy graphs	-
4.	Global journal of mathematical sciences: Theory and practical & 9	Aug-2017	0974-3200	Fuzzy coloring circular interval graphs of integer decomposition with constant variables	-
5.	International journal of fuzzy mathematical archive & 14	Dec-2017	2320-3247	Coloring of regular and strong arcs fuzzy graphs	1.37

6.	International journal of fuzzy mathematical archive & 14	Dec-2017	2320-3242	Fuzzy coloring of interval-valued fuzzy graph	1.137
7.	International journal of pure and Applied Mathematics & 118	Feb-2018	1314-3395	Different types of edge sequence in pseudo regular fuzzy graphs	7.19
8.	International Journal of Computer Sciences and Engineering & 6	Aug 2018	2347-2693	Coloring Of Polyhedral Regular and Irregular Fuzzy Graphs	3.022
9.	International journal of pure and Applied Mathematics & 120	Sep 2018	1314-3395	On Conormal product of two intuitionistic fuzzy graphs	7.19
10.	International journal of pure and Applied Mathematics & 120	Sep- 2018	1314-3395	Strong Domination in Pseudo regular and complete fuzzy graphs	7.19
11.	International journal of pure and Applied Mathematics & 120	Sep 2018	1314-3395	Strong Interval-valued Neutrosophic Intuitionistic Fuzzy Graph	7.19
12.	International Journal of Mechanical Engineering and Technology & 9	Nov 2018	0976-6340	Optimization Of Fuzzy EOQ Model with unit time depended constant Demand and Shortages	3.46
13.	International Journal of Research and Analytical Reviews & 6	Jan 2019	2349-5138	Origin Of KM-Algebra	5.75
14.	International Journal of Research and Analytical Reviews & 6	Feb 2019	2349-5138	New Approach On Fuzzy graphs and Anti-Fuzzy Graphs with Special arcs	5.75
15.	International Journal of Research and Analytical Reviews & 6	Feb -2019	2348-1269	Strong and Weak Domination in Intuitionistic Fuzzy Graph	5.75
16.	International Journal of Research and Analytical Reviews & 6	Feb 2019	2349-5138	Edge coloring of a Complement of Strong Interval valued Intuitionistic fuzzy graph	5.75

17.	International Journal of Mechanical Engineering and Technology & 9	Nov 2018	0976-6340	Optimization Of Fuzzy Inventory model without shortage using Pentagonal Fuzzy Number	3.46
18.	International Journal of Research in advent Technology	Jan 2019	2321-9637	An Approach for Production planning using Fuzzy goal programming Technique	3.505
19.	International Journal Of Research in advent Technology	Jan 2019	2321-9637	A Fuzzy Flow Shop Scheduling multi Objective Model	3.505
20.	Journal of Advanced Research in Dynamical and Contorl Systems & -	June 2019	1943-023X	Optimization of Fuzzy Multi-Product, Multi-Period Model to select supplier for Deteriorating products while considering uncertainty as well as Back Order	0.08
21.	Adalya journal & 8	Aug-2019	1301-2746	Square sum Min-max intuitionistic fuzzy labeling graphs	5.3
22.	Adalya journal & 8	Aug-2019	1301-2746	Various product and dual strong domination in mixed and square mixed intuitionistic fuzzy graphs	5.3
23.	Adalya journal & 8	Aug-2019	1301-2746	Interval, Double-valued neutrosophic intuitionistic fuzzy Graphs	5.3
24.	Journal of Advanced Research in Dynamical and control systems & 11	Aug-2019	1943-023X	Optimization of fuzzy Inventory EOQ Model using Kuhn-Tucker Method	0.08

25.	Adalya journal & 08	Aug-2019	1301-2746	Fuzzy transportation problem optimization of fuzzy trisection trapezoidal transportation Problem	5.3
26.	Infokara Research & 8	Sep-2019	1021-9056	Derivations of KM-algebra	5.3
27.	Journal of Advanced Research in Dynamical and control systems & 11	sep-2019	1943-023X	Optimization of fuzzy Economic production Quantity Inventory Model	0.08
28.	Journal of the Gujarat Research society & 21	Sep-2019	0374-8588	Optimization of Rework cost function under fuzzy inventory model for synchronous and asynchronous	4.3
29.	Compliance Engineering journal & 10	Sep-2019	0898-3577	Application of fuzzy measures in image processing of fauna and flora	6.1
30.	Journal of information and computational science & 09	Sep-2019	1548-7741	Optimization of fuzzy inventory model for deterioration item with partial backlogging	0.15
31.	International journal of analytical and experimental model analysis & XI	Sep-2019	0886-9367	A study on phases of moon, chandrayan-II, sidereal month and synodic month	6.3
32.	Infokara Research & 08	2019	1021-9056	Mid-width method for solving for real interval integer triangular fuzzy Transportation problem	5.3
33.	The international journal of analytical and experimental modal analysis & XII	Jan-2020	0886-9367	Minimal Spanning Tree Under Single Valued Neutrosophic Fuzzy Graphs	6.3

34.	The international journal of analytical and experimental modal analysis & XII	Jan-2020	0886-9367	Inventory model optimized to rectify the shortage by using Kuhn-Tucker Method	6.3
35.	The international journal of analytical and experimental modal analysis & XII	Jan-2020	0886-9367	Fuzzy inventory model of defective items in manufacturing process	6.3
36.	Journal of interdisciplinary cycle research & XII	Jan-2020	0886-9367	Langrangian method of EOQ for Synchronous and assynchrhronous	-
37.	Studies in Indian Place Names & 40	Jan-2020	2394-3114	A Study on Chandrayaan-Ii,Lunar Liberation,Lunar Day,Lunar Time	6.3
38.	Our Heritage & 68	Feb-2020	0474-9030	Fuzzy measure-null additive, subadditive, superadditive, autocontinuous, uniformly autocontinuous.	6.8
39.	Parishodh Journal & IX	March 2020	2347-6648	Regular and Strong Anti-Labeling Fuzzy Graphs	6.3
40.	Parishodh Journal & IX	March 2020	2347-6648	The join product and dual strong domination in mixed split intuitionistic fuzzy Graph	6.3
41.	The International journal of analytical and experimental modal analysis & XII	March 2020	0886-9367	A New Notion On KM-algebra	6.3
42.	Parishodh Journal & IX	March 2020	2347-6648	The Shortest Path on Minimal Spanning Tree With Triangular Single- Valued Neutrosophic Intuitionistic Fuzzy Graph	6.3

43.	TEST Engineering & Management magazine	March - April 2020	0193-4120	Fuzzy Inventory eq Model with the Impact of Stochastic Lead time Reduction	-
44.	Journal of & 14	April 2020	1001-2400	Optimization of a Multiple-Vendor Single Buyer Integrated Inventory Model With A Variable Number of Vendors	5.4
45.	Journal of Xidian University & 14	April 2020	1001-2400	Generalized Derivations of KM-algebras	5.4
46.	Gedrag & Organisatie Review & 33	June 2020	0921-5077	Fuzzy Sets in KM-algebras	-
47.	Journal of critical review	June 2020	2394-5125	Optimizing EOQ using geometric programming with varying fuzzy numbers by applying python	1.091
48.	Advances in Mathematics: Scientific Journal	June 2020	1615–1622	Fuzzy Economic Order Quantity Inventory Model Using Lagrangian Method	1.372
49.	Journal of Critical Reviews	June 2020	863-881	Optimization Of Multi-Item (Eoq) Model for A Single- Buyer Using Fuzzy Geometric Programming	1.091
50.	Journal of Model based Research	Aug 2020	1-12	Determining the efficiency of fuzzy logic EOQ inventory model with varying demand in comparison with Lagrangian and Kuhn-Tucker method through sensitivity analysis	1.091

51.	Kala Sarovar	Oct-Dec 2020	122-128	Optimization of fuzzy inventory model with trapezoidal fuzzy numbers: Lagrangian method	2.56
52.	Sambodhi	Oct-Dec 2020	85-98	Rainbow domination in Graphs	2.98
53.	Sambodhi	Oct-Dec 2020	99-122	Characterization of outer-clique domination in graphs	2.96
54.	Sambodhi	Oct-Dec 2020	89-93	Expected profit of an eoq inventory model with inferior worth products	2.96
55.	Journal of the Maharaja Sayajirao University of Baroda	Dec-2020	109-114	A retailer total profit of an eoq inventory under trade credit	5.544
56.	Materials Today: Proceedings	Dec 2020	-	Fuzzy EOQ model with stochastic lead time using yager's technique	1.3
57.	Materials Today: Proceedings	Jan 2021	-	Solving a multi-product single machine EPQ inventory model with GP mode: By using python	1.3
58.	Journal of Advances and Scholarly Researches in Allied Education	Jan 2021	1319-1326	A Study on Math Rotter Model for Acknowledge of Intellectual with Technology	3.16
59.	Materials Today: Proceedings	Jan 2021	-	Optimization of unconstrained multi-item (EPQ) model using fuzzy geometric programming with varying fuzzification and defuzzification methods by	1.3

				applying python	
60.	Materials Today: Proceedings	Jan 2021	-	Comparison of hexagonal fuzzy numbers with varied defuzzification methods in optimization of EOQ using GP technique	1.3
61.	The Journal of Indian Art History Congress	Jan 2021	17-24	Optimization of Optimal Ordering Strategy Pricing Model of Fuzzy Total Cost in Degraded Materials	-
62.	The Journal of Indian Art History Congress	Jan 2021	68-74	Optimization of EOQ Inventory Model with Inferior Worth Products in Expected Profit Per Cycle and Time	-
63.	Wesleyan Journal of Research	February 2021	53-59	A Retailer Total Profit Per Unit Time of An EOQ Inventory Under Both Non-Linear Stock and Holding Cost, Trade Financial	-
64.	Materials Today: Proceedings	March 2021	-	Shortest path on interval-valued nether trapezoidal Neutrosophic fuzzy Graphs	1.3
65.	Communications in Computer and Information Science (CCIS)	March 2021	123-133	Rethinking the Limits of Optimization Economic Order Quantity (EOQ) Using Self Generating Training Model by Adaptive-Neuro Fuzzy Inference System	0.5

66.	Materials Today: Proceedings	March 2021	-	Shortest path on interval-valued nether trapezoidal neutrosophic fuzzy Graphs	1.3
67.	Annals of RSCB	April 2021	1583- 6258	Solutions of Inventory Model with Fuzzy Demand rate using Heptagonal Fuzzy Numbers	0.9
68.	Journal of Mathematical Control Science and Applications	April 2021	107- 120	An application of domination in vague fuzzy incidence graphs	6.235
69.	Turkish Journal of Computer and Mathematics Education	May 2021	3680- 3693	Shortest Path on Interval- Valued Triangular Neutrosophic Fuzzy Graphs with Application	0.33
70.	Turkish Journal of Computer and Mathematics Education	June 2021	3680- 3693	Shortest Path on Intuitionistic Trapezoidal Neutrosophic Fuzzy Graphs with Application	0.33
71.	Journal of Mathematical Control Science and Applications & 7	June 2021	0974- 0570	An Application of Domination in Vague Fuzzy Incidence Graphs	6.235
72.	Journal of Mathematical Control Science and Applications & 7	June 2021	0974- 0570	Fuzzy Soft Tri- Partite Graphs and its Complement	6.235
73.	Flusser Studies & 30	August 2021	1661 - 5719	Human Psychology and Related Mathematical Scientific Activities	

74.	Hindawi Complexity	October 2021	1076-2787	Fuzzy Product KM-Subalgebras and Some Related Properties	-
75.	Journal of Mathematical Control Science and Applications	October 2021	217-232	Fuzzy mean square sum soft tri-partite graphs and its complement	6.235
76.	Journal of Mathematical Control Science and Applications & 7	December 2021	0974-0570	Organizational Commitment on Organizational Citizenship Behaviors	6.235
77.	Journal of Mathematical Control Science and Applications & 7	December 2021	0974-0570	Exploring COVID-19 Anxiety in Indian Based Education by Moderating Structural Equation Model	6.235
78.	Journal of Mathematical Control Science and Applications & 7	December 2021	189-198	Domination in complete intuitionistic fuzzy incidence graphs with application	6.235
79.	Journal of Mathematical Control Science and Applications & 7	December 2021	189-198	Fuzzy Mean Square Sum Soft Tri-Partite Graphs and its Complemen	6.235
80.	Thermal Science	December 2021	2334 - 7163	Optimization of the Average Monthly Cost of an EOQ Inventory Model for Deteriorating Items in Machine Learning Using Python	1.66
81.	Advances and Applications in Mathematical Sciences	January 2022	1579-1588	N- split domination in vertex squared interval-valued fuzzy graphs	-

82.	Advances and Applications in Mathematical Sciences	March 2022	0974-6803	A Study on Domination in Product Picture Fuzzy Graph and its Application	
83.	Advances and Applications in Mathematical Sciences	March 2022	0974-6803	Vertex Perfect Anti-Magic Bipolar Fuzzy Labeling Graphs	
84.	Advances and Applications in Mathematical Sciences	March 2022	0974-6803	Application of Cactus Fuzzy Labeling Graph	
85.	Discrete Dynamics in Nature and Society, Hindawi	May 2022	1026 - 0226	Perfect Fuzzy Soft Tripartite Graphs and their Complements	
86.	South East Asian Journal of Mathematics and Mathematical Sciences	April 2022	2582 - 0850	n- Domination in Vertex Squared Double Divide Interval-Valued Fuzzy Graphs	
87.	Discrete Dynamics in Nature and Society, Hindawi	July 2022	1026 - 0226	The Characterization of Substructures of c-Anti Fuzzy Subgroups with Application in Genetics	
88.	Computational Intelligence and Neuroscience	July 2022	1687 – 5237	Economic Order Quantity Model-Based Optimized Fuzzy Nonlinear Dynamic Mathematical Schemes	
89.	Thai Journal of Mathematics	June 2022	1686 – 0209	The Characterization of Fuzzy and Anti Fuzzy Ideals in AG-groupoid	

90.	Journal of Algebraic Statistics	June 2022	1309 - 1270	Determining the efficient optimal order quantity for an Inventory model with varying Fuzzy components	
91.	New Generation Computing	September 2022	1882 – 7055	Design and Development of Modified Ensemble Learning with Weighted RBM Features for Enhanced Multi-disease Prediction Model	
92.	Bulletin of the Calcutta Mathematical Society	February 2023	0008-0659	Negative Valued Function in Fuzzy KM-algebras	
93.	Indian Journal of Science and Technology	March 2023	0974 – 5645	Negative Valued Ideals of Fuzzy KM-Subalgebras	
94.	International Journal of Fuzzy Logic and Intelligent systems	March 2023	1598-2645(P),2093-744X(online)	Conormal Product for Intuitionistic Anti-Fuzzy Graphs	
95.	Journal of Data Acquisition and Processing	Apr 2023	1004 - 9037	Vertex Domination/Edge Domination in Semigraphs and Change in Coloring energy due to Edge Deletion	
96.	Italian Journal Of Pure And Applied Mathematics	May-23	2239-0227	The shortest path problem on chola period built temples with Dijkstra's algorithm in intuitionistic triangular neutrosophic fuzzy graph	

97.	Jnanabha	Jun-23	2455-7463	Shortest Path On Interval-Valued Intuitionistic Trapezoidal Neutrosophic Fuzzy Graphs With Application	
98.	International Conference on Advancement in Computation & Computer Technologies	Jun-23	979 – 8 – 3503 – 9648	Diagnosing the Abnormalities in Brain Tumors with the Technique of K-Means Clustering with Knowledge Acquisition	
99.	International Conference on Advancement in Computation & Computer Technologies	Jun-23	979 – 8 – 3503 – 9648	Fuzzy Intelligence Inventory Decision Optimization Model of Sustainability and Green Technologies for Mixed Uncertainties of Carbon Emission	
100.	Journal of Survey in Fisheries Sciences	Jun-23	2368 - 7487	The Optimization Machine Learning Approach of Sensitive Analysis of Fuzzy Inventory Germination of Plants Generates One-Year-Old-Seeds And Two-Year-Old-Seeds With Fuzzy Inventory	
101.	2nd International Conference on Recent Trends in Applied and Computational Mathematics, AIP Conference Proceedings	Jun-23	9.78074E +12	Sustainable Medical Supply Chain Network During Pandemic by Using Fuzzy Inventor	
102.	Nonlinear Studies	May-23	2153 – 4373	The Optimality representation of a finite-life inventory model with exiguous defective with Hessian matrix approach	
103.	Tuijin Jishu/Journal Of Propulsion Technology	Nov-23	1001-4055	An Integrated Approach of Ant Colony Optimization (ACO), Machine Learning (ML), and Fuzzy Logic for Revolutionizing Inventory Management	

				in Modern Supply Chains	
104.	Tuijin Jishu/Journal Of Propulsion Technology	Nov-23	1001-4055	Enhancing Food Resource Allocation in India: A Fuzzy Logic Approach Integrated with Julia and Python	
105.	International Journal of Intelligent Systems And Applications In Engineering	Dec-23	2147-6799	Image Caption Generation Using Recurrent Convolutional Neural Network	
106.	Indian Journal of Science and Technology	Dec 2023	4585-4593	Arithmetic Operations of Trigonal Fuzzy Numbers Using Alpha Cuts: A Flexible Approach to Handling Uncertainty	
107.	First International Conference on Cyber Physical Systems, Power Electronics and Electric Vehicles (ICPEEV) , IEEE	Jan 2024		Fuzzy C-Means Clustering with MAIRCA -MCDM Method in Classifying Feasible Logistic Suppliers of Electrical Products	
108.	Journal of Tianjin University Science and Technology	February 2024	0493-2137	Optimization Of Fuzzy Intervalued Function In Medicinal Manufacturing And Stock Approaches: Refinement For A Pharma Companies	
109.	Journal of Nonlinear Analysis and Optimization	February 2024	1906-9685	Time-Optimal Control Strategies For Susceptible-Infected recovered (Sir) Epidemic Models In Cattle: A Deep Analysis Of Preventive Measures Sensitivity	

13. Details of Papers Presented:

Date	Organizer	Name of the Seminar	Paper Name
20-02-2019	Annai Womens college, Karur	International Conference on Advances in Mathematics	Fuzzy EOQ Trade credit vendor-buyer Inventory Models
20-02-2019	Annai Womens college, Karur	International Conference on Advances in Mathematics	A study on Fuzzy Algebra and Fuzzy topology
20-02-2019	Annai Womens college , Karur	International Conference On Advances in Mathematics	A study on fuzzy ideals and fuzzy filters of Fuzzy Latices
11.01.2020	Idhaya college for women	International Conference on Pure and Applied Mathematics	The Shortest Path on Minimal Spanning Tree with Triangular Single- Valued Neutrosophic Intuitionistic Fuzzy Graph
04.03.2020	Kongunadu College of Engineering & Technology	National Conference on Mathematics: Pure, applied and Computation (NMPAC-2020)	Minimal Spanning Tree Under Single Valued Neutrosophic Fuzzy Graphs
11.08.2021	Madurai Sivakasi Nadar Pioneer Meenakshi Women college, Madurai	New angled Avenues of Applied Mathematics	The shortest path problem on india famous Seven tourist place with Dijkstra's Algorithm in Interval- Valued Intuitionistic Triangular Neutrosophic Fuzzy Graphs
15.10.2022 – 19.10.2022	Scientific Intelligence in New Normal Digital Era, FATHER Academy of India and The Association of Researchers of Thailand and University of Oradea, Thailand	Scientific Intelligence in New Normal Digital Era, FATHER Academy of India and The Association of Researchers of Thailand and University of Oradea, Thailand	Optimization of Economic Order Quantity Model on the Boundaries of the Fill Rate with Machine Learning using Python

21.12.2022 – 22.12.2022	Applied Mathematical Sciences	JJ college of Arts and Science (Autonomous), Trichy	Paper Presentation Optimization of shortages in a fuzzy inventory management system through sign distance method in Python programming language
27.01.2023 – 31.01.2023	XLVI Social Science congress	Bharathidasan University, Tiruchirappalli	Optimization of shortages in a Fuzzy inventory management system through signed distance method in python programming language
05.05.2023 – 06.05.2023	Advancement in computation and computer technologies	Chandigarh University, Punjab	Diagnosing the abnormalities in brain tumors with the techniques k-means clustering with knowledge acquisition
15.05.2023 – 17.05.2023	Emergent converging Technologies and Biomedical systems	Jaypee University of Information Technology, Wagnaghat, Solan, HP	Fuzzy Vendor-Buyer Trade Credit Inventory Model-Pentagonal numbers in Permissible Limits Delay in Account Settlement with Supervised learning

18.02.2024 - 19.02.2024	Bon Secours Arts & Science College For Women, Mannargudi	International Virtual Conference on emerging trends For futuristic Development in Science and Technology (techtrendz 2k24)	Fuzzy Inventory Models With Machine Learning Via Linear Regression Models
24.02.2024	AIMAN COLLEGE, TRICHY	International Conference on Recent Trends in Mathematics and its Applications - 2024	Optimization Of Fuzzy Inventory Economic Order Quantity Trade Credit Model With Machine Learning

14. Details of Seminars / Conferences / Workshops Attended:

Year & Date	Organizer	Title	National / International	Topic
29.10.2018 to 02.11.2018	Cauvery college for women and Department of Educational Technology, Bharathidasan University	Capacity Building workshop on e-content Development	National	e-content Development Fuzzy set
24.08.2019	Kongunadu College of Engineering and Technology, Namakkal	CSIR sponsored work shop “Innovations in Number Theory for Cryptography Applications”	National	Innovations in Number Theory for Cryptography Applications
11.10.2019	AIMAN College of Arts and Science, Trichy	FDP	National	Fuzzy Mathematics

11.01.2020	Idhaya college for women	The Shortest Path on Minimal Spanning Tree With Triangular Single- Valued Neutrosophic Intuitionistic Fuzzy Graph	International	Internatinal Conference on Pure and Applied Mathematics
04.03.2020	Kongunadu College of Engineering & Technology	Minimal Spanning Tree Under Single Valued Neutrosophic Fuzzy Graphs	National	National Conference on Mathematics: Pure, applied and Computation (NMPAC-2020)
06.01.2023 – 07.01.2023	Jamal Mohammed College, Trichy	Lecture Workshop on Differential Equations and their Applications in Mathematical Modeling	National	Lecture Workshop on Differential Equations and their Applications in Mathematical Modeling
12.12.2022 – 24.12.2022	Rajarshi Shahu Mahavidyalaya (Autonomous), Latur	Capacity Building Program on Advanced Research Methodology for Young Aspirants in Social Science and Humanities (ARM YASSH – 22)	National	Advanced Research Methodology for Young Aspirants in Social Science and Humanities (ARM YASSH – 22)
27.02.2023 - 28.02.2023	Gonzaga College of Arts and Science, Krishnagiri	Webinar on Smart material and its applications	National	Webinar on Smart material and its applications
08.03.2023	Theivanai Ammal College for Women, Villupuram	Webinar on plagiarism – Importance, consequence and to avoid	International	Webinar on plagiarism – Importance, consequence and to avoid

16.03.2023	Intellectual Property Office, India	IP Awareness/ Training Program	National	IP Awareness/ Training Program
22.04.2023	Cauvery College for Women(Autonomous), Trichy	An Overview of Intellectual Property Rights	National	An Overview of Intellectual Property Rights
26.04.2023	Cauvery College for Women(Autonomous), Trichy	International IPR management	International	International IPR management
26.04.2023	Cauvery College for Women(Autonomous), Trichy	Spotlight on Intellectual Property Rights	National	Spotlight on Intellectual Property Rights
26.04.2023	Cauvery College for Women(Autonomous), Trichy	An Introduction to IPR	National	An Introduction to IPR
03.04.2023 – 05.04.2023	Mahoshri Institute of Technology (MIT Polytechnic), Yeola	Emerging trends in electrical technology	State	Emerging trends in electrical technology
05.02.2024 - 14.02.2024	NEP 2020 Orientation and Sensitization	Malaviya Mission Teacher Training Programme of UGC and Bharathidasan University	National	NEP 2020 Orientation and Sensitization

15. Details of Seminars / Conferences / Workshops Organized:

Date	Title	National / International	Topic
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06.08.2016	Conference	National	“Advances in applied mathematical sciences” NCAAMS -2k16
02.05.2020	Seminar	National – FDP	Mathematical Model for Science and Engineering
31.05.2020	Seminar	National – FDP	Semi Graph and Virus Graph
05.08.2020	Seminar	National – FDP	On Time Scale : A survey Analysis
2022 - 2024	Conference	International	New Ideas in Technology and Innovation

16. Details of Orientation / Refresher Course Attended:

Date	Title of the Course	Organizer
29.10.2018 to 2.11.2018	Capacity Building Workshop on E- Content Development	Cauvery college for Women (Autonomous)
August to October 2019	Higher Engineering Mathematics- FDP	NPTEL online course
August to October 2020	Introduction to probability and Statistics	NPTEL online course
August to October 2020	Graph Theory	NPTEL online course
August to October 2020	Descriptive statistics with R Software	NPTEL online course
January to February 2021	Python for Data Science	NPTEL online course
January to April 2021	Essential of Data Science with R- Software 1 Probability and Statistical Inference	NPTEL online course
August to October 2021	Computational Mathematics using Sage math	NPTEL online course
August to October 2021	Mentor for Introduction to R software	NPTEL online course
August to October 2021	Big Data Computing	NPTEL online course
July - October 2022	Approximate Reasoning Using Fuzzy Set Theory	NPTEL online course

July - October 2022	Essential Mathematics for Machine learning	NPTEL online course
August to October 2022	Introduction to Machine Learning	NPTEL online course
August to October 2022	Machine Learning ML	NPTEL online course
August to October 2023	Data Science for Engineers	NPTEL online course
August to November 2023	Machine learning for soil and crop management	NPTEL online course
August to November 2023	Applied Linear Algebra with AI and ML	NPTEL online course
Jan – Apr 2023	Mentor for Data Science for Engineers	SWAYAM NPTEL Course
Jan – Apr 2023	Mentor for Applied Linear Algebra in AI and ML	SWAYAM NPTEL Course
Jul – Dec 2023	Machine Learning for Earth System Science	SWAYAM NPTEL Course
07.12.2022 – 13.12.2022	UGC-Sponsored Online Short Term Course in Employability and Soft Skills Development	UGC-HRDC Bharathidasan University, Khajamalai Campus, Tiruchirappalli
10.1.2023 to 24.1.2023	UGC-Sponsored Online Refresher Course in Human Rights and Social Inclusion (IC)	Dr. Babasaheb Ambedkar Marathwada University, Aurangabad
07.02.2023 – 20.02.2023	UGC-Sponsored Online Refresher Course in Reforms & Innovations in Higher Education	Bharathidasan University Khajamalai Campus Tiruchirappalli
10.03.2023 – 16.03.2023	UGC-Sponsored Online short term course in Quality Assurance and Enhancement in Higher Education	Bharathidasan University Khajamalai Campus Tiruchirappalli
24.04.2023 – 28.04.2023	Short term Course – Recent Advancements in Medicinal Chemistry and Material Science	Vardhaman College of Engineering, Hyderabad

17. Details of Study Materials / Books written and published: Nil

18. Details of Chairing as Resource Person:

Date	Title of the Seminar/Conference	Institution	Session Sharred
2017	Application of mathematics	Cambridge institute of technology	2 days
2017	Fuzzy inventory models	Aiman arts and science college for women	10.00 – 11.30 AM
2018	Application of Mathematics	Annai Arts and science College	10.00 -12.00 PM
25.01.2019	Application of mathematics in real life	Sri saradha college for women, Perambalur	10.00 -12.00 PM
05.03.2019	Real life Applications of Algebra	Annai women's College,Karur	11.00 - 12.00 P.M
04.06.2020	Applications of Fuzzy Mathematics	Sri Ramakrishna College of Arts & Science For Women, Coimbatore	10.00 – 11.00 AM
28.06.2020 – 29.06.2020	Fuzzy Graph and its Applications	Nizwa College of Technology, Oman	3.00 – 4.00 PM
12.07.2020	Development of Fuzzy inventory Models	Mahendra College of Engineering, Salem	10.30 – 12.00 PM
22.07.2020	Advances & Applications of Mathematics	Arts Commerce & Science College, Kille-Dharur	11.00 – 12.00 PM
12.09.2020	Applications of Mathematics in Real life	Cheran Arts & Science College, Kangeyam	10.00 – 11.00 AM
07.10.2020	Virtual Conference on Recent Trends and Technology of Mathematics and Science	Queens College of Arts and Science, Puddukottai	3.00 – 4.00 PM
16.10.2020	Optimization of Fuzzy economic order quantity model for a Governable Carbon Emission for inventory models	Cheran Arts & Science College, Kangeyam	10.30 – 12.00 PM
02.11.2020	Enhancing Awareness in Future Generation of Engineers	Nehru Institute of Technology, Coimbatore	11.00 – 12.00 PM
26.02.2021	Real Life Application of Mathematics	Vasantdada patil Arts, Commerce & Science College, Patoda , Maharashtra	10.00 – 11.00 AM
12.3.2021	Advances in Analysis and Algebra	Rajah serfoji Government College, Thanjavur	3.00 – 4.00 PM
05.08.2021	Carrer Paths in Mathematics	Rabiammal Ahamed Maideen College for Women – Thiruvavarur	10.00 – 11.00 AM

06.10.2021	A Promising Approach for Fuzzy Inventory Models based on Machine Learning	Dr. MGR Research and Educational Institute	1.30 – 2.30 PM
01.10.2021	Optimization of Fuzzy Based Machine Learning Models	Kongunadu College of Engineering and Technology	10.30 – 12.00 PM
28.09.2021 – 30.09.2021	Enhancement of Mathematical Research from students Perspective	Rathinam College of Arts and Science, Coimbatore	3.00 – 4.00 PM
01.10.2021	Optimization of Fuzzy Based Machine Learning Models	Kongunadu College of Engineering and Technology	10.00 – 12.00 PM
06.10.2021	A Promising Approach for Fuzzy Inventory Models based on Machine Learning	Dr. MGR Research and Educational Institute	1.00 – 3.00 PM
02.12.2021	Applications of Mathematics in Real Life	Srinivasa University, Mangalore	9.30 – 11.30 AM
11.03.2022	Fuzzy set Theory	St. Joseph University, Nagaland	2.00 – 4.00 PM
28.03.2022 – 01.04.2022	Fuzzy inventory models with Machine Learning	KG College of arts and Science, Coimbatore	10.00 – 12.00 PM
27.04.2022	Mathematics and its real life Applications : Modelling, Engineering and Social Sciences	Urumu Dhanalakshmi College, Trichy	11.00 – 1.00 PM
27.10.2022	Entrepreneurial Thinking and Scientific Knowledge on Students	Aiman College of Arts and science for Women, Trichy	1.00 – 2.30 PM
04.11.2022	Network Models in Operations Research	Patrician College of Arts and Science, Chennai	10.00 – 12.00 PM
28.12.2022 – 3.1.2023	Research : Analysis Tools and Techniques	Theivanai Ammal College for Women(A), Villupuram	2.00 – 4.00 PM
31.01.2023	International Conference on Research Trends in Contemporary Mathematics ICRTCM – 2023	Patrician College of Arts and Science, Chennai & Sacred Heart College, Tirupattur	10.00 – 12.00 PM

12.03.2023 – 16.06.2023	5-Day National Workshop on “Applied Mathematics and Computing”	Madhav Institute of Technology and Science, Gwalior.	4.00 – 6.00 PM
24.01.2024	Applications of Mathematics	Bon Secours Arts and Science College for Women	2.00 – 4.00 PM

19. Administrative Positions held in the College:

Nature of Position	Year
NIRF Nodal Officer	2021 – 2024
ISO Auditor	2020 – 2024
EDC Coordinator	2020 -2024
IIC Ambassador	2020 -2024
Research Committee Secretary	2020 -2022
NAAC Criterion III Incharge	2020 – 2024

20. Details of In charge / Participation in Extracurricular Activities :

(NSS, NCC, Sports, Games, Voluntary Association and Cultural Activities):

Nature of Activity	Period of In charge
Staff Cultural In charge	2017-18

21. Details of Participation in Consultancy, Training, Development etc..:

1. Consultancy- Microsoft - Certified Microsoft Innovative Educator
2. Consultancy- Microsoft - Getting started with one Note

22. Details of Membership in Academic Bodies/ Board of Studies: Nil

23. Details of Membership of Professional Bodies: 1. IJMSEA – Life time member

2.IJMRAE – Life time member

3. ISTE – Life time Member

4. Bharat Ganita Parisad – Life time Member

5. International Association of Engineers – time Member

24. Countries visited academically: Nil

25. Any other information if any:

1. Passed SET(State level Eligibility Test) in the year 2017
2. E-Content - Topic - Fuzzy set, Definition of Group, Definition of Permutation Group
3. Internship Viva-Voce External Examiner – Holy Cross College –Trichy – 21-02-2019
4. Translated Three NPTEL Courses
 1. Rings and fields
 2. Transforms calculus and its applications in Differential Equations
 3. Differential Equations for Engineers
5. Patent for “A Novel Brick Composition Comprising Low Density Polyethylene (LDPE) and Manufactured - Sand (M-Sand)”
6. Patent for “Blended Teaching and learning management platform for primary school children during epidemic period”
7. Patent for “Graphic Partitioning approach by Sequencing Small Graphs”
8. Patent for “Sand-Water Separation for irrigation”
9. Patent for “Solar and wind hybrid energy generation apparatus”
10. Patent For Fuzzy Logic Inventory Control System With Predictive Modelling For Covid Vaccine Pharmaceutical Distribution in Hospital Supply Chain Management-Machine Learning Model Approach
11. Awarded as “NPTEL Motivator Learner” by SWAYAM
12. Awarded as “NPTEL Discipline Star”
13. Awarded as “NPTEL BELIVER AWARD”
14. Awarded as “NPTEL EVANGELIST AWARD”
15. Awarded as “Top Performing Mentor”
16. Young Women Mathematician, Rathinam college of Arts and Science and INFINITY
17. Women Researcher Award, VDGOD Technology Factory
18. Best Researcher Award, Cauvery College for Women (Autonomous), Trichy
19. Acted as an External Examiner for PhD Viva-voce Examination
20. Reviewed Papers in
 - Advances in Science, Technology and Engineering Systems Journal
 - Journal of Applied and Engineering Mathematics
 - Advancing Research for Innovation, Sustainability and Enhancement
 - Neutrosophic Sets and Systems
 - Journal of Sustainability and Environmental Management
 - Journal of Applied Math from November 2023 – 2024
 - Certificate of Excellence in Reviewing “Asian Journal of Research in Computer Science”
 - Reviewer in communication in nonlinear analysis
 - Reviewer in 5th IEEE International Conference on Computing, Power and Communication Technologies (IC2PCT 2024) organized by Galgotias University, Greater Noida, Uttar Pradesh on 9th and 10th February 2024

- Peer reviewing of research papers for Global Multi-track Conference SEMA 2022
 - Certificate of Excellence in Reviewing the manuscript “International Journal of Plant & Soil Science”
 - Certificate of Excellence in Reviewing the manuscript “Asian Journal of Probability and Statistics”
 - Certificate of Excellence in Peer - Reviewing the book “B P International”
 - Editorial Board Member at our International Peer-Reviewed E-journal Multidisciplinary Cosmopolitan Journal of Research (MUCOJOR)
 - Editor in Bulletin of the Marathwada Mathematical Society
21. Book Published Reading and Writing Dyslexia, Kindle Edition
 22. Appointed as a QC Translator in SWAYAM
 23. Appointed as a member of Board of Examiner for PhD, Bharathiyar University, Coimbatore
 24. Appointed as a member of Board of Examiner for PhD, Prist University, Coimbatore
 25. Number of National, International and State Webinars Attended 201
 26. Number of Faculty Development Programme Attended 103
 27. Number of Workshops and Training Programme Attended 74