

CIRICULLUM VITAE


OBJECTIVE

To utilize my teaching & research profession in a reputed institution

PROFILE SUMMARY

- Twenty six years of experience in teaching
- Sixteen years of research experience
- Well skilled in communication and comprehension
- Subject Knowledge with Applications.
- Concern and care with Students
- Cordial and Interest in group activities

1. General information

Name (in Capital letter)	Dr. W. RITHA		
Date of Birth (DD/MM/YYYY)	20/06/1971		
Age (as on 01/07/2022) (YY/MM)	54 Years		
Place of Birth	Tiruchirappalli		
Nationality	Indian		
Community	Sozhia Vellalar		
Mother tongue	Tamil		
Correspondence Address	37, Palaya Kovil Street, Palakkarai, Tirchirappalli -620001		
Permanent Address	37, Palaya Kovil Street, Palakkarai, Tirchirappalli -620001		
Phone No.:	Land Line:	Mobile: 9842189878	
E-mail:	ritha_prakash@yahoo.co.in		

2. Present Position:

a	Designation	Associate Professor
b	Organization	Holy Cross College (Autonomous) Tiruchirappalli-620002

c	Date of Appointment to the present post	19/09/2007
d	Total experience in the current position (in Years & Months)	16 Years 05 Months

Education Qualification (in chronological order from highest)

Qualification	Year	% Achieved	University / Institution	Subject /Topic of Specialization
Ph.D	2009	Commended	Mother Teresa University	Mathematics
M.Phil	2002	73	Bharathidasan University	Mathematics
M.Sc	1994	74	Bharathidasan University	Mathematics
PGDCA	1992	61	Bharathidasan University	Computer Applications
B.Sc	1991	69	Bharathidasan University	Mathematics

Date of Award of Ph.D.

3	0	J	A	N	2	0	0	9
---	---	---	---	---	---	---	---	---

3. Details of Academic / Teaching Experience:

Post held	Organization /University	Duration		Experience: Teaching/ Research/ Industry (in Years & Months)
		From (Date)	To (Date)	
Associate Professor	Holy Cross College	April 2023	Till Date	1 year 6 months
Assistant Professor	Holy Cross College	19 th Sep 2007	March 2023	15years 06months
Sr. Lecturer	M.A.M College of Engineering and Technology	1 st Feb 2003	18 th Sep 2007	4 years 7 months
Lecturer	Sudharsan College of Engineering and Technology	1 st July 2002	30 th Jan 2003	1 year 6 months
Assistant Professor and HOD	Pavendar Bharathidasan College of Engineering and Technology.	9 th Oct 1998	26 th June 2002	3 years 8 months

Lecturer	Jayaram College of Engineering and Technology	10 th July 1995	14 th Aug 1998	3 years 1 month
----------	---	----------------------------	---------------------------	-----------------

4. a. Administrative Experience

Position	Organization	Duration		Experience:(in years & months)
		From Date	To Date	
Vice Principal	Holy Cross College	June 2010	May 2013	3 years
Head of Department	Holy Cross College	June 2019	May 2022	3 years
Others (specify)	Coordinator of UG, Merge Scheme, UGC Holy Cross College	2012	2014	2 years
	Feedback Coordinator Holy Cross College	2010	Till date	14 years
	College Admission Committee, Holy Cross College	2010	2013	3 years
Dean of Research	Holy Cross College	June 2023	April 2026	3 years

b. Member / Life Member of Councils and Professional Bodies:

S. No.	Post	Organization/ University	Duration		Experience : (in years & months)
			From	To	
1	Member, Board of Studies	Holy Cross College Tiruchirappalli	2007	Till date	14 years 11 months
		Seethalakshmi Ramasami College, Tiruchirappalli	2020	2021	1 year
2	Member of Academic Council	Holy Cross College	June 2019	May 2022	3 years
			June 2019	May 2022	3 years
3	Member of Executive Council	Holy Cross College	June 2010	May 2013	3 years
4	Member of Governing body	Holy Cross College	June 2010	May 2013	3 years
5	University Nominee, Board of Studies	Jamal Mohamed College	2022	2025	3 years
6	External subject expert in Board of studies	Lady Doak College, Madurai	2023	2026	3 years
7	External subject expert in	Bishop Heber College	2023	2026	3 years

	Board of studies	(Autonomous), Trichy			
8	Member/Life Member of Professional /Academic Bodies	IACSIT (Life Time Member) Member ID: 80336416			

5. a. Other contribution in relevant areas in Higher Education

Position	Organization	Nature of Duty	Period
Resource person	Jamal Mohamed College (Autonomous) Tiruchirappalli – 20.	Chair Person - International Conference on “Mathematical Methods and Computation”	24 th & 25 th July 2009
	Holy Cross College (Autonomous), Tiruchirappalli	Chair Person - National conference on Graph Theory & Operations Research	3 rd & 4 th March 2014
	Cauvery College for Women Tiruchirappalli	Resource Person - “Fuzzy Logic and its applications”.	20 th September 2016
	Holy Cross College (Autonomous), Tiruchirappalli	Resource Person-One day workshop on “Research Project Proposal Writing”	5 th July 2017
	Jamal Mohamed College (Autonomous) Tiruchirappalli – 20.	Chair Person - International Conference on “Mathematical Methods and Computation”	11th December 2017
	Bishop Heber College (Autonomous), Tiruchirappalli	Chair Person - International Conference on Applied Mathematics And Bio- Inspired Computations	10 th & 11 th January 2019
	Jamal Mohamed College (Autonomous) Tiruchirappalli – 20	Chair Person - International Conference on “Mathematical Methods and Computation”	20 th and 21 st February 2019
	PG and Research Department of Mathematics, Bon Secours College for Women, Thanjavur	Chair Person - National Conference on “Recent Trends in Pure and Applied Mathematics ” – Sponsored by CSIR	4th February 2019

	PG and Research Department of Mathematics, Periyar E.V.R. College, Tiruchirappalli	Chair Person - One Day Seminar on “Recent Trends in Fuzzy Operations Research” Sponsored by UGC	29 th February 2019
	Jamal Mohamed College (Autonomous) Tiruchirappalli – 20	Chair Person - International Conference on “Mathematical Methods and Computation”	19 th February 2020
	Bishop Heber College (Autonomous), Tiruchirappalli	Chair Person - Heber International Conference on Applied Mathematics, HICAM 2020	7 th November 2020
	SCMS School of Engineering and Technology, Ernakulum	Chair Person - International Conference on Emerging Trends in Basic and Applied Science,	16 th & 17 th December 2021
	Bishop Heber College (Autonomous), Tiruchirappalli	Chair Person - Heber International Conference on Applied Mathematics Management Computer Science and Statistics, HICAMMCS 2022	18 th March 2022

b. Involvement with formulation of academic programs:

S.No.	Nomenclature of innovative Academic Programmes (UG/PG Level) formulated	University /Institute implemented	Date first offered
1	School of mathematical computation sciences UG	Holy Cross College	2019
2	Learning outcome based curriculum frame work LOCF UG	Holy Cross College	2021

c. New courses introduced:

S.No.	Name of the Course	Course level (UG/PG) and Program	University /Institute implemented	Date first offered
1	Calculus	UG /Mathematics	Holy Cross College	2019

2	Analytical Geometry 3D and vector calculus	UG /Mathematics	Holy Cross College	2019
3	Algebra and Trigonometry	UG /Mathematics	Holy Cross College	2019
5	Numerical Methods and its Applications	UG /Mathematics	Holy Cross College	2019
6	Statics	UG /Mathematics	Holy Cross College	2019
7	Programming in C	UG /Mathematics	Holy Cross College	2019
9	Dynamics	UG /Mathematics	Holy Cross College	2019
10	Optimization Techniques – I	UG /Mathematics	Holy Cross College	2019
11	Sci Programming	UG /Mathematics	Holy Cross College	2019
12	Statistics I	UG /Mathematics	Holy Cross College	2019
13	Abstract Algebra	UG /Mathematics	Holy Cross College	2019
14	Optimization Techniques- II	UG /Mathematics	Holy Cross College	2019
15	Sci Programming – Practical	UG /Mathematics	Holy Cross College	2019
16	Statistics II	UG /Mathematics	Holy Cross College	2019
17	Statistics III	UG /Mathematics	Holy Cross College	2019
18	Differential Equations, Laplace Transforms and Fourier Series	UG /Mathematics	Holy Cross College	2019
19	Statistical Packages	UG /Mathematics	Holy Cross College	2019
20	R Programming	UG /Mathematics	Holy Cross College	2019
21	Real Analysis	UG /Mathematics	Holy Cross College	2019
22	Complex Analysis	UG /Mathematics	Holy Cross College	2019
23	Fuzzy Set Theory	UG /Mathematics	Holy Cross College	2019
24	Discrete Mathematics	UG /Mathematics	Holy Cross College	2019
25	Python Programming	UG /Mathematics	Holy Cross College	2019
26	Algebra, Calculus and Trigonometry	UG /Physics	Holy Cross College	2019
27	Differential Calculus and Trigonometry	UG /Chemistry	Holy Cross College	2019
28	Statistical Methods	UG/B.C.A & Computer Science	Holy Cross College	2019
29	Business Mathematics	UG/B.com	Holy Cross College	2019

30	Business Mathematics & Statistics	UG/B.com Vocational &CA	Holy Cross College	2019
31	Business Mathematics & Statistics For Managers	UG/B.B.A	Holy Cross College	2019
32	Analytical Geometry of 3D and vector calculus	UG/Physics	Holy Cross College	2019
33	Algebra and Integral Calculus	UG/Chemistry	Holy Cross College	2019
34	Laplace Transforms Partial Differential Equations, and Fourier Series	UG/Physics	Holy Cross College	2019
35	Analytical Geometry of 3D and vector calculus and Differential Equations	UG/Chemistry	Holy Cross College	2019
36	Numerical Methods	UG/B.C.A & Computer Science	Holy Cross College	2019
37	Business Statistics	UG/B.com	Holy Cross College	2019
38	Discrete Mathematics	UG/B.C.A & Computer Science	Holy Cross College	2019
39	Statistics I	-	Holy Cross College	2019
40	Statistics II	-	Holy Cross College	2019
41	Statistics III	-	Holy Cross College	2019

d. Position of Chairs:

S.No.	Name of the Chair	Name of Agencies /Departments involved	Period of holding the Chair
1	Chair Person International Conference on “Mathematical Methods and Computation”	Jamal Mohamed College (Autonomous) Tiruchirappalli – 20.	24 th & 25 th July 2009
2	Chair Person National conference on Graph Theory & Operations Research	Holy Cross College (Autonomous), Tiruchirappalli	3 rd & 4 th March 2014
3	Chair Person Seminar on “Fuzzy Logic and its applications”.	Cauvery College for Women Tiruchirappalli	20 th September 2016
4	Chair Person One day workshop on “Research Project Proposal Writing”	Holy Cross College (Autonomous), Tiruchirappalli	5 th July 2017
5	Chair Person International Conference on “Mathematical Methods and Computation”	Jamal Mohamed College (Autonomous) Tiruchirappalli – 20.	11th December 2017

6	Chair Person International Conference on Applied Mathematics And Bio-Inspired Computations	Bishop Heber College (Autonomous), Tiruchirappalli	10 th & 11 th January 2019
7	Chair Person International Conference on “Mathematical Methods and Computation”	Jamal Mohamed College (Autonomous) Tiruchirappalli – 20	20 th and 21 st February 2019
8	Chair Person National Conference on “Recent Trends in Pure and Applied Mathematics ” – Sponsored by CSIR	PG and Research Department of Mathematics, Bon Secours College for Women, Thanjavur	4th February 2019
9	Chair Person One Day Seminar on “Recent Trends in Fuzzy Operations Research” Sponsored by UGC	PG and Research Department of Mathematics, Periyar E.V.R. College, Tiruchirappalli	29 th February 2019
10	Chair Person International Conference on “Mathematical Methods and Computation”	Jamal Mohamed College (Autonomous) Tiruchirappalli – 20	19 th February 2020
11	Chair Person Heber International Conference on Applied Mathematics, HICAM 2020	Bishop Heber College (Autonomous), Tiruchirappalli	7 th November 2020
12	Chair Person International Conference on Emerging Trends in Basic and Applied Science,	SCMS School of Engineering and Technology, Ernakulum	16 th & 17 th December 2021
13	Chair Person Heber International Conference on Applied Mathematics Management Computer Science and Statistics, HICAMMCS 2022	Bishop Heber College (Autonomous), Tiruchirappalli	18 th March 2022
14	External Expert in the Interview Panel	St. Joseph’s College (Autonomous), Tiruchirappalli	7 th May 2019
15	External Expert in the Interview Panel	Jamal Mohamed College (Autonomous) Tiruchirappalli – 20	7 th Jan 2021
16	External Expert in Academic audit cum star Department Evaluation	Bishop Heber College (Autonomous), Tiruchirappalli	7 th December 2021
17	External subject expert in Board of studies	Lady Doak College, Madurai	24 th March 2023

18	External subject expert in Board of studies	Lady Doak College, Madurai	16 th June 2023
19	External subject expert in Board of studies	Lady Doak College, Madurai	25 th September 2024
20	External subject expert in Board of studies	Jamal Mohamed College (Autonomous) Tiruchirappalli – 20.	5 th October 2024
21	Resource person International Seminar on Current Aspects of Mathematics	PG & Research Department of Mathematics, Seethalakshmi Ramaswami College, Tiruchirappalli.	19 th July 2024

e. Infrastructure Development /Fund for Improvement of Science and Technology (FIST) Projects, etc.

S. No.	Infrastructure Developed	Funding Agency	Duration of the Project	Amount of Grant (Rs. In Lakhs)	Role
1	Computer Lab	DST	2010-2015	Rs. 41,50,000	Co-Ordinator
TOTAL: Rs .41,50,000					

6. Research Contribution :

a. Sponsored / Public Funded Research Projects executed by the Applicant

S. No.	Title of Project	Sponsor Name	Duration of the Project	Amount of Grant(Rs.in Lakhs)	PI or Co-PI
1	Fuzzy Retrial queues and its Applications	UGC	2009-2010	Rs. 80,000	Principal Investigator - Minor Research Project
2	A Study on Environmental Impacts of Tourism Using Fuzzy Theory	Tamil Nadu state council of Science and technology	2010	Rs. 5000	Principal Investigator - Student Project
3	A Study on inventory Models	UGC	2011-2014	Rs. 7,51,434	Principal Investigator - Major Research Project
TOTAL:Rs.8,36,434					

b. No. of Research Scholars (Ph.D.) successfully guided:

S.No.	Name of the scholar	Affiliated University / Institute	Year	Main Guide or Co Guide
1	B.Sreelekha Menon	Manonmaniam Sundaranar University, Tirunelveli	2013	Main Guide
2	R.Kalaiarasi	Manonmaniam Sundaranar University, Tirunelveli	2013	Main Guide
3	Lilly Robert	Manonmaniam Sundaranar University,	2013	Main Guide

		Tirunelveli		
4	J.Merline Vinotha	Manonmaniam Sundaranar University, Tirunelveli	2013	Main Guide
5	Sr.A.Sagaya Rani	Manonmaniam Sundaranar University, Tirunelveli	2014	Main Guide
6	S.Rexlin Jeyakumari	Manonmaniam Sundaranar University, Tirunelveli	2014	Main Guide
7	M.Mary Mejrullo Merlin	Manonmaniam Sundaranar University, Tirunelveli	2014	Main Guide
8	M.Sumathi	Bharathidasan University, Tiruchirappalli	2014	Main Guide
9	W.Lilly Merlin	Bharathidasan University, Tiruchirappalli	2015	Main Guide
10	Nivetha Martin	Bharathidasan University, Tiruchirappalli	2015	Main Guide
11	I.Francina Nishathini	Bharathidasan University, Tiruchirappalli	2017	Main Guide
12	I.Antonitte Vinoline	Bharathidasan University, Tiruchirappalli	2018	Main Guide
13.	S.Haripriya	Bharathidasan University, Tiruchirappalli	2019	Main Guide
14.	Infancy Vimal Priya	Bharathidasan University, Tiruchirappalli	2019	Main Guide
15	P.Bharathi	Bharathidasan University, Tiruchirappalli	2019	Main Guide
16	S.Sudha	Bharathidasan University, Tiruchirappalli	2019	Main Guide
17.	S.Poongodi Sathiya	Bharathidasan University, Tiruchirappalli	2019	Main Guide
18.	J.C.Eveline	Bharathidasan University, Tiruchirappalli	2020	Main Guide

19.	A.Theresal Jeyaseeli	Bharathidasan University, Tiruchirappalli	2020	Main Guide
20.	S.Josphine Vinnarasi	Bharathidasan University, Tiruchirappalli	2021	Main Guide
21	K.Jayanthi	Bharathidasan University, Tiruchirappalli	2021	Main Guide
22	M.Bhuvaneswari	Bharathidasan University, Tiruchirappalli	2022	Main Guide
23	P. Selvi	Bharathidasan University, Tiruchirappalli	2023	Main Guide
24	N Rajeswari	Bharathidasan University, Tiruchirappalli	2024	Main Guide
25	P Yasodai	Bharathidasan University, Tiruchirappalli	2024	Main Guide

C. Patents / Copy right and Technology Transfer agreements signed:

Title	Awarded
Patent: An IOT Enabled Foot Operated Two Wheeler Steering Mechanism For Handicapped Persons	Australian Government (2020102133) 04.09.2020
Patent: A Machine Learning Regression Vector For Managing Various Aspects In The Field of Agriculture	Government of India (202141018080) 30.04.2021
Patent: Detecting and Diagnosing of Cancer Using a Convolutional Neural Network Systems	Government of India (202241020636) 22.04.2022
Patent: Analysis Of Amikacin In Human Serum By UHPLC With Fluorescence Detector	Government of India (202221019944) 22.04.2022
Patent: Detection of Breast Cancer Diagnosis Using Deep Learning Method	Government of India (202241027403) 27.05.2022

c. Details of research papers presented (Oral) in International level academic or research events

Category	Number of Presentations
International Conferences /Events held outside India*	2
International Conferences /Other Events held in India*	8
Total	10

S. No.	Title of Presentation	Title of Event	Organizers	Date	Place
1	Fuzzy Analysis Of Queuing System Bulk Service: A Non-Linear Programming Approach	International Conference on Modeling And Simulation	Department of Chemical Engineering, Coimbatore Institute of Technology, Coimbatore	27 – 29 August 2007	Coimbatore Institute of Technology, Coimbatore
2	Parametric Programming to the Analysis of Bulk Arrival Queuing Model	International Conference on Mathematics & Computer Science	Department of Mathematics, Loyola College, Chennai	1-3 March 2007	Loyola College, Chennai
3	Fuzzy Queuing Model	International Conference on Mathematics & Computer Science	Department of Mathematics, Loyola College, Chennai	25-26 July 2008	Loyola College, Chennai
4	Machine Inference	UGC Sponsored	PG & Research		Jamal Mohamed

	System	International Conference on Mathematical Methods and Computation	Department of Mathematics, Jamal Mohamed College (Autonomous) Tiruchirappalli – 20	2009	College, Tiruchirappalli –20
5	A Joint Economic Lost Size Model with Screening Errors and Investment Opportunity for Quality Improvement of the Production	International Conference on Mathematical Methods and Computation	PG & Research Department of Mathematics, Jamal Mohamed College (Autonomous) Tiruchirappalli – 20	11 th Dec 2017	Jamal Mohamed College, Tiruchirappalli –20

6	Analysis of priority Queuing Models: L-R Method	International Conference on Mathematical Methods and Computation	PG & Research Department of Mathematics, Jamal Mohamed College (Autonomous) Tiruchirappalli – 20	11 th Dec 2017	Jamal Mohamed College, Tiruchirappalli –20
7	A Study on JELS Inventory Model of Delay in Payments Along with Different Mode of Road Transportation under the Carbon Emission Reduction	International Conference on Mathematical Methods and Computation	PG & Research Department of Mathematics, Jamal Mohamed College (Autonomous) Tiruchirappalli – 20	20 th & 21 st Feb 2019	Jamal Mohamed College, Tiruchirappalli –20
8	Fuzzy Erlang Queuing Model with Distinct Measures of Ranking	International Conference on Mathematical Methods and Computation	PG & Research Department of Mathematics, Jamal Mohamed College (Autonomous) Tiruchirappalli – 20	20 th & 21 st Feb 2019	Jamal Mohamed College, Tiruchirappalli –20
9	An Integrated Inventory Model With Shortages and Screening Process Under Conditions of Permissible Delay in Payments	International Conference on Engineering and Natural Science	Institute of Research Engineers And Scientists, Kuala Lumpur, Malaysia	1 st – 2 nd May 2019	Institute of Research Engineers And Scientists, Kuala Lumpur, Malaysia
10	Analysis of the Risk of Ebola Virus Disease : Fuzzy Vikor Method based on the Possibility Theory	International Conference on Engineering and Natural Science	Institute of Research Engineers And Scientists, Kuala Lumpur, Malaysia	1 st – 2 nd May 2019	Institute of Research Engineers And Scientists, Kuala Lumpur, Malaysia

d. Details of research papers presented (Oral) in National level academic or research events

S.No.	Title of Presentation	Title of Event	Organizers	Date	Place
1	Fuzzy Control Arrivals to Tandem Queues	UGC Sponsored National Seminar on Development in Mathematical Applications	Department of Mathematics, Kunthavai Naachiar Government Arts College For Women, Thanjavur	8 th & 9 th April 2005	Kunthavai Naachiar Government Arts College For Women, Thanjavur
2	A Network Model Based Fuzzy Queuing Systems	UGC Sponsored National Symposium on Interdisciplinary Applications of Mathematical Modeling	Department of Mathematics, V.V.Vanniaperumal College For Women, Virudhunagar	4 th - 6 th August 2005	V.V.Vanniaperumal College For Women, Virudhunagar
3	FE _x /1 Fuzzy Queue	Seminar on Mathematical Methods in Social Sciences	PG & Research Department of Mathematics, Jamal Mohamed College (Autonomous) Tiruchirappalli – 20	8 th & 9 th Sep 2004	Jamal Mohamed College, Tiruchirappalli –20
4	Analysis of M/F/I Queues	Seminar on Mathematical Methods & Fuzzy Applications	PG & Research Department of Mathematics, Jamal Mohamed College (Autonomous) Tiruchirappalli – 20	27 th Feb 2006	Jamal Mohamed College, Tiruchirappalli –20
5	Fuzzy Priority Queues	National Conference on Fuzzy Mathematics And Graph Theory Applications	PG & Research Department of Mathematics, Jamal Mohamed College (Autonomous) Tiruchirappalli – 20	27 th & 28 th March 2008	Jamal Mohamed College, Tiruchirappalli –20
6	Fuzzy Priority Queues – Vertex Method	National Seminar on Fuzzy Mathematics And Its Applications	School of Mathematics, Alagappa University Karaikudi	9 th March 2009	Alagappa University, Karaikudi
7	Money & Inclusive Growth : A Fuzzy Approach for Transation Demand of Cash Model	National Seminar on Inclusive Growth	PG & Research Department of Economics, Holy Cross College (Autonomous), Tiruchirappalli	26 th & 27 th Feb 2009	Holy Cross College (Autonomous), Tiruchirappalli

e. **Details of Conferences Attended in National & International Level**

S. No.	Title of Event	Organizers	Date
1	UGC Sponsored Training on Mat lab	Bishop Heber College (Autonomous), Tiruchirappalli	22 nd January 2008
2	State Level One day Workshop on Soft Computing in Mathematical Research	Holy Cross College (Autonomous), Tiruchirappalli	25 th January 2008
3	Trainers' Workshop on Soft Skills	Holy Cross College (Autonomous), Tiruchirappalli	10 th - 12 th April 2008
4	Novel Approach in Graph Theory, Fuzzy Mathematics and Stochastic Models	Holy Cross College (Autonomous), Tiruchirappalli	2 nd & 3 rd Dec 2008
5	UGC Sponsored Orientation Course	Bharathidasan University Tiruchirappalli – 2	2 nd - 29 th May 2009
6	National Workshop on Evolving the Benchmarks for Emerging Trends in cross Border Education	Holy Cross College (Autonomous), Tiruchirappalli	11 th & 12 th January 2010
7	UGC Sponsored Orientation Course	Bharathidasan University Tiruchirappalli – 2	10 th - 30 th November 2010
8	UGC Sponsored Refresher Course In Human Rights	Bharathidasan University Tiruchirappalli – 2	1 st - 21 st December 2012
9	International Conference on Mathematical Methods and Computation	PG & Research Department of Mathematics, Jamal Mohamed College (Autonomous) Tiruchirappalli – 20	11 th Dec 2017
10	International Conference on Applied Mathematics And Bio-Inspired Computations	Bishop Heber College (Autonomous), Tiruchirappalli	10 th & 11 th January 2019
11	Refresher Course	Teaching Learning Centre, Ramanujan College, University of Delhi,	16 th - 30 th March 2021

12	International Conference on “Mathematical Methods and Computation”	PG & Research Department of Mathematics, Jamal Mohamed College (Autonomous) Tiruchirappalli – 20	19 th February 2020
----	--	--	--------------------------------

a. Details of research or academic event conducted at international level

S.No.	Title of Event	Organization/ University	Date	Role
1	International Seminar on “ Present Trends in Applications of Mathematics”	Holy Cross College (Autonomous), Tiruchirappalli – 2.	18 th December 2018	Organizing Secretary
2	International Conference on Innovation, Research and Networking in Higher Education for a Sustainable Society: Challenges and Channels.	Holy Cross College (Autonomous), Tiruchirappalli – 2.	25 – 27, July 2018	Organizing Secretary
3	International Seminar on “ Present Trends in Applications of Mathematics”	Holy Cross College (Autonomous), Tiruchirappalli – 2.	9 th December 2019	Organizing Secretary
4	International Seminar on “ Present Trends in Applications of Mathematics”	Holy Cross College (Autonomous), Tiruchirappalli – 2.	16 &17 th November 2020	Convenor & Organizing Secretary
5	Five Days Online International faculty development programme on “New Epoch in Software Learning”	Holy Cross College (Autonomous), Tiruchirappalli – 2.	16 th – 20 th August, 2021	Convenor

b. Details of research or academic event conducted at National level

S.No.	Title of Event	Organization/ University	Date	Role
1	L. Brighth Gladys	Bharathidasan University	29.04.2021 (Approval Date)	Doctoral committee Member
2	P. Rathinabhagya	Bharathidasan University	29.04.2021	Doctoral committee Member
3	P.Janavarthini	Bharathidasan University	03.12.2021	Doctoral committee Member
4	U. Johns Praveena	Bharathidasan	10.02.2022	Doctoral committee

		University		Member
5	M. Monika	Bharathidasan University	01.02.2022	Doctoral committee Member
6	M.Deepika	Bharathidasan University	01.02.2022	Doctoral committee Member
7	S.Jerinrechal	Bharathidasan University	23.05.2022	Doctoral committee Member
8	Diana	Bharathidasan University	31.07.2024	Doctoral committee Member

2. Scholarly Achievements:

a. Research Publications

Total Number of Publications:

S. No.	Category	Numbers Published
1	International Journals Publications	311
2	International Journals (UGC approved list only)	102

S. No.	Author Names	Title of Paper	Journal Title, Vol. No Issue No. Year.	UGC JournalNo. & ISSN
1	Dr. W. Ritha and Selvi. P	An Economic Order Quantity Model With Green Designing Cost	Journal of Information and Computational Science, Scopus Vol. 10, Issue 6,2020	ISSN: 1548-7741
2	Dr. W. Ritha and Selvi. P	Environmental Oriented Inventory Model For Recycling Food Waste And Its Benefits	Sambodhi(UGC Care Journal) Vol. 43, N0.4,2020	ISSN: 2249-6661
3	Dr. W. Ritha and Selvi. P	Optimal Inventory Model For Coconut Farming	Sambodhi(UGC Care Journal) Vol. 44, N0.1,2021	ISSN: 2249-6661
4	Dr. W. Ritha and Selvi. P	Economic Order Quantity Model For Sustainable Inventory Considering Different Sources Of Environmental Cost Along With The Environmental Cost	European Journal of Molecular and Clinical Medicine (SCOPUS) Vol.08, Issue:04,2021	ISSN 2515-8260
5	Dr. W. Ritha and Selvi. P	An Integrated Vendor – Buyer Model With consideration Of Logistics And Green Investment Under Strict Carbon Cap Policy	International Journal Of Aquatic Science(WEB OF SCIENCE) Vol.12 Issue:02, 2021	ISSN: 2008-8019

	Dr. W. Ritha and Selvi. P	Inventory Model On The Effect Of Investment In	International Journal Of Aquatic	ISSN: 2008-8019
6		Green Technology Under Cap And Trade Policy	Science(WEB OF SCIENCE) Vol.12 Issue:02, 2021	
7	Dr. W. Ritha and Selvi. P	Green Inventory Model With The Impact Of Trade Credit And Partial Back Ordering Under Permissible Delay In Payment	Natural volatiles & Essential Oils(NVEO) (SCOPUS) Vol.08, Issue:04,2021	ISSN: 9979-9993
8	Dr. W. Ritha and Selvi. P	EOQ And EPQ Inventory Models For Pollution Control With Integration Of Environmental Cost	Journal of Algebraic Statistics (UGC CARE LIST) Vol.013, Issue:03,2022	ISSN:1309-3452
9	Dr. W. Ritha and Selvi. P	Inventory Model For Culture And Creative Product Through The Investment In Green Technology	Journal of Algebraic Statistics (UGC CARE LIST) Vol.013, Issue:03,2022	ISSN:1309-3452
10	Dr. W. Ritha and Selvi. P	Green Inventory Model For Battery Waste Management	Journal of Positive School Psychology (UGC CARE LIST)	ISSN:2717-7564
11	Dr. W. Ritha and Rajeswari. N	Analytical Approach To Solve Fuzzy Queuing Theory	Sambodhi (UGC Care Journal)	
12	Dr. W. Ritha and Rajeswari. N	The Sensitivity Analysis Of Service And Waiting Costs Of A Multi-Server Fuzzy Queuing Model Using Ranking Technique	International Journal Of Aquatic Science(WEB OF SCIENCE) Vol.12 Issue:02, 2021	ISSN: 2008-8019
13	Dr. W. Ritha and Rajeswari. N	An Analytical Study Of The M/M/1/N Imprecise Queuing System With Encouraged Arrivals	International Journal Of Aquatic Science(WEB OF SCIENCE) Vol.12 Issue:02, 2021	ISSN: 2008-8019
14	Dr. W. Ritha and Rajeswari. N	Perceptualization Of Parametric Study On Imprecise Queuing In A Two-Stage Model With No Waiting Line Between Channels	Natural volatiles & Essential Oils(NVEO) (SCOPUS) Vol.08, Issue:04,2021	ISSN: 9979-9993
15	Dr. W. Ritha and Rajeswari. N	Exploration Of Ranking Based On Statistical Beta Distribution For A Heterogeneous Server Imprecise Queue With A Slow Server Threshold	Natural volatiles & Essential Oils(NVEO) (SCOPUS) Vol.08, Issue:04,2021	ISSN: 9979-9993

16	Dr. W. Ritha and Rajeswari. N	To Scrutinizes Finite Source Queuing Models With Pentagonal Fuzzy Numbers Using Centroid	Journal of Algebraic Statistics (UGC CARE LIST) Vol.013,	ISSN:1309-3452
		Of Centroids Technique Under Imprecise Environment	Issue:03,2022	
17	Dr. W. Ritha and Rajeswari. N	A Precise Study On Analyzation Of FM/FD/1 Imprecise Queuing Model Under Various Fuzzy Numbers: Execution Proportions By Pascal's Triangular Graded Mean Technique	Journal of Algebraic Statistics (UGC CARE LIST) Vol.013, Issue:03,2022	ISSN:1309-3452
18	Dr. W. Ritha and Yasodai. P	Multi server Fuzzy Queuing Model With Erlang Service Performance Measures by L-R Method	Sambodhi(UGC Care Journal) Vol.44 Issue:01(XIII) Jan-March 2021	ISSN: 2249-6661
19	Dr. W. Ritha and Yasodai. P	Cost Interpretation Of Fuzzy Queuing Model Using Ranking Based On Statistical Beta Distribution	International Journal Of Aquatic Science(WEB OF SCIENCE) Vol.12 Issue:02, 2021	ISSN: 2008-8019
20	Dr. W. Ritha and Yasodai. P	Exploration Of Fuzzy Preemptive-Resume Priority Queuing System Using Robust Ranking Method	International Journal Of Aquatic Science(WEB OF SCIENCE) Vol.12 Issue:02, 2021	ISSN: 2008-8019
21	Dr. W. Ritha and Yasodai. P	Analyzation Of A Fuzzy Queuing Model With Flexible Service Policy Using Parametric Programming Approach	European Journal of Molecular and Clinical Medicine(SCOPUS) Vol.08, Issue:04,2021	ISSN 2515-8260
22	Dr. W. Ritha and Yasodai. P	Cost Analysis Of Fuzzy Tandem Queues Using a Parametric Relation Pair	Natural volatiles & Essential Oils(NVEO) (SCOPUS) Vol.08, Issue:04,2021	ISSN: 9979-9993
23	Dr. W. Ritha and Yasodai. P	An Impact of Reneging, Server Breakdowns and Server vacations of Fuzzy Queuing System Under Trisectional Fuzzification Approach	Journal of Algebraic Statistics (UGC CARE LIST) Vol.013, Issue:03,2022	ISSN:1309-3452

24	Dr. W. Ritha and Yasodai. P	Scrutinizing Disparate Ranking in Fuzzy Tri-Cum Biserial Bulk Queuing Model Tethered with a Common Server	Journal of Algebraic Statistics (UGC CARE LIST) Vol.013, Issue:03,2022	ISSN:1309-3452
25	Dr.W. Ritha and Saarumathi. R	Shoddy Pro – Offering Technique Using Lagrangian Method	International Journal Of Aquatic Science(WEB OF SCIENCE)	ISSN: 2008-8019

			Vol.12 Issue:02, 2021	
26	Dr. W. Ritha and Saarumathi. R	Production Inventory Model – Panorama Harnessing Geometric Programming	International Journal Of Aquatic Science(WEB OF SCIENCE) Vol.12 Issue:02, 2021	ISSN: 2008-8019
27	Dr. W. Ritha and Saarumathi. R	EPQ Model – An Endommager Etymology	European Journal of Molecular and Clinical Medicine (SCOPUS) Vol.08, Issue:04,2021	ISSN 2515-8260
28	Dr. W. Ritha and Saarumathi. R	Amenable Carbon Emissions Harnessing Optimum Sustainable Inventory Management Amidst Backorder And Deterioration Esteeming Geometric Programming	Natural volatiles & Essential Oils(NVEO) (SCOPUS) Vol.08, Issue:04,2021	ISSN: 9979-9993
29	Dr. W. Ritha and Saarumathi. R	A Sustineri Fabrication Inventory Exemplar Cum Imperfectus Quality Under Preservation Technology and Investment In Quality Improvement	Journal of Algebraic Statistics (UGC CARE LIST) Vol.013, Issue:03,2022	ISSN:1309-3452
30	Dr. W. Ritha and Saarumathi. R	Amending Inventory Stratum for Technopile Endowment Nether Carbon Tax, Cap - and - Trade and Strict Carbon Limit Regulations	Journal of Algebraic Statistics (UGC CARE LIST) Vol.013, Issue:03,2022	ISSN:1309-3452
31	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) Scopus April 2019	Volume 8, Issue 6S4, ISSN: 2278-3075,

32	W.Ritha, I.Francina Nishandhi, Lilly Robert and S.Poongodi Sathiya	A Study on JELS Inventory model of Delay in Payments along with Different mode of Road Transportation under the Carbon Emission Reduction	Journal of Physical Sciences UGC CARE listed June,2019	ISSN:2350-0352
33	W. Ritha, Merline Vinotha J, Antonitte Vinoline.I, NivethaMartin, Vijayalakshmi P	Environmentally Liabile Multi-Objective Multi Span Fuzzy Fractional Capacitated Transportation Problem in the Two Echelon Supply Chain with Heterogeneous Items and Mixed Constraints	International Journal of Recent Technology and Engineering (IJRTE) Scopus July 2019	ISSN-2277-3878 Issue:2S3
34	W. Ritha J.MerlineVinotha, I.Antonitte Vinoline, Nivetha Martin, P. Vijayalakshmi	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) Scopus July 2019	ISSN:2277-3878, Vol. 8(S3)
35	Ritha .W, Nivetha Martin, Merline Vinotha .J, Antonitte Vinoline .I	Education and Employment are Two Poles- A Research using Fuzzy cognitive Linguistic Multi maps	International Journal of Innovative Technology and Exploring Engineering (IJITEE) Scopus April 2019	Volume 8, Issue 6S4, ISSN: 2278-3075,
36	Ritha .W Antonitte Vinoline .I., Nivetha Martin	An Integrated Inventory Model with Shortages and Screening Process under Conditions of Permissible Delay in Payments	International Journal of Management and Applied Science Scopus September 2019	Volume 5, Issue 9, ISSN: 2394 – 7926,
37	Ritha .W Nivetha Martin, Antonitte Vinoline.I, Selvi .P	Analysis of the Risk of Ebola Virus Disease: Fuzzy Vikor Method Based on the Possibility theory	International Journal of Management and Applied Science Scopus September 2019	Volume 5, Issue 9, ISSN: 2394 – 7926,

38	Ritha .W., Antonitte Vinoth.I, Merline Vinotha J, Nivetha Martin	The Optimal Ordering Policy of the Retailer in Diverse Commercial Atmosphere with Permissible Delay in Payments	TEST Engineering and Management Scopus February 2020	Volume 82, ISSN: 0193 - 4120,
39	Ritha .W., Theresal Jeyaseeli.A,	Fuzzy Geometric Programming Approach to Food Supply Chain Model	TEST Engineering and Management Scopus February 2020	Volume 82, ISSN: 0193 - 4120,

	Antonitte Vinoth .I, Merline Vinotha.J Nivetha Martin			
40	Dr. W.Ritha & K.. Jayanthi	Economic production quantity model with cloudy fuzzy associated cost of internet advertising to acquire customers residing worldwide with geometric programming technique	Kalasarovar UGC CARE group 1 journal October- December 2020	ISSN: 0975-4520
41	Dr. W.Ritha & K. Jayanthi	A new ranking principle of trapezoidal cloudy fuzzy numbers with geometric programming application of replenishment policy for economic manufacturing model with rework, multiple shipments, switching and packaging	Sambodhi UGC Care Listed October- December 2020	
42	W.Ritha & J. Merline Vinotha , I. Antonitte Vinoth	An Algorithm For Multi Objective Fuzzy Fractional Transportation Problem	European Journal of Molecular and Clinical Medicine Dec 2020 Scopus indexed	Volume 7, Issue 9, E – ISSN 2515-8260
43	W.Ritha ,I. Antonitte vinoth, &J.Merline vinoth	Environmentally Sustainable Inventory Model With The Impact Of Trade Credit And Partial Backordering	European Journal of Molecular and Clinical Medicine Dec 2020 Scopus indexed	Volume 7, Issue 9, E – ISSN 2515-8260
44	W.Ritha, J. Merline Vinoth , & I. Antonitte Vinoth	An Algorithm For Multi Objective Fuzzy Fractional Transportation Problem	European Journal of Molecular and Clinical Medicine Dec 2020 Scopus indexed	Volume 7, Issue 9, E – ISSN 2515-8260

45	Dr. W. Ritha and S. Josephine Vinnarasi	Bell Shaped Fuzzy Number with Centroid Of Centroids Method	Journal of Information and Computational Science, (UGC CARE LIST) Volume 9 Issue 9 - 2019	ISSN: 1548-7741
46	Dr. W. Ritha and S. Josephine Vinnarasi	Analysis of Fuzzy Tandem Terror Queues	Test Engineering & Management (SCOPUS) Volume 83, 2020	ISSN: 0193-4120
47	Dr. W. Ritha and S. Josephine Vinnarasi	Analysis of Erlangian Phased Service Queuing Model: Fuzzy Randomness Approach	Test Engineering & Management (SCOPUS) Volume 83,	ISSN: 0193-4120

			2020	
48	Dr. W. Ritha and S. Josephine Vinnarasi	Analysis of Fuzzy Queuing prototypes coupled with ranking conception	Journal of Information and Computational Science (SCOPUS) Volume 10 Issue 6 – 2020	ISSN: 1548-7741
49	Dr. W. Ritha and Josephine Vinnarasi. S	Exploration of M/M/C Network Structure with trapezoidal fuzzy numbers	Journal of Information and Computational Science (SCOPUS) Volume 10 Issue 6 – 2020	ISSN: 1548-7741
50	Dr. W. Ritha and Bhuvaneshwari. M	Cost and Profit Analysis of Fuzzified M/EK/1 Queuing System by Triangular Fuzzy Number	International Journal Of Aquatic Science(WEB OF SCIENCE) Vol.12 Issue:02, 2021	ISSN: 2008-8019
51	Dr. W. Ritha and Bhuvaneshwari. M	Fuzzified M/M/1 Traffic Model	International Journal Of Aquatic Science(WEB OF SCIENCE) Vol.12 Issue:02, 2021	ISSN: 2008-8019
52	Dr. W. Ritha and Bhuvaneshwari. M	Fuzzy Retrial Queues with Patient Customer	International Journal Of Aquatic Science(WEB OF SCIENCE) Vol.12 Issue:02, 2021	ISSN: 2008-8019
53	W.Ritha, J. Merline Vinotha, & I. Antonitte Vinoline	Fuzzy Soft Set Based Multiobjective Fuzzy Transportation Problem Involving Carbon Emission Cost Linked With The Travelling Distance	Natural volatiles & Essential Oils(NVEO) (SCOPUS) Vol.08, Issue:04,2021	ISSN: 9979-9993

54	W.Ritha, N.Rajeswari	The Sensitivity Analysis Of Service And Waiting Costs Of A Multi-Server Fuzzy Queuing Model Using Ranking Technique	International Journal of Aquatic Sciences June 2021	
55	W.Ritha, N.Rajeswari	An Analytical Study Of the M/M/1N Imprecise Queuing System with Encouraged Arrivals	International Journal of Aquatic Sciences June 2021	
56	W.Ritha, N.Rajeswari	Perceptualization Of Parametric Study On imprecise Queuing In A Two Stage Model With No Waiting Line Between Channels	Natural Volatiles & Essential Oils December 2021	
57	W.Ritha, N.Rajeswari	Exploration Of Ranking Based On Statistical Beta Distribution For A Heterogeneous Server Imprecise Queue With A Slow Server Threshold	Natural Volatiles & Essential Oils December 2021	
58	P.Selvi, W.Ritha	Green Inventory Model With The Impact Of Trade Credit And Partial backordering Under Permissible Delay in payment	Natural Volatiles & Essential Oils June 2021	
59	P.Selvi, W.Ritha	Inventory Model On The Effect Of Investment Green Technology Under Cap And Trade Policy	International Journal of Aquatic Sciences June 2021	
60	P.Selvi, W.Ritha	An Integrated Vendor-Buyer Model With Consideration Of Logistics and Green Investment Under Strict Carbon Cap Policy	International Journal of Aquatic Sciences June 2021	
61	W.Ritha, P.Yasodai	Multi Server Fuzzy Queuing Model With Erlang service Performance measures by L-R method	Sambodhi June 2021	

62	W.Ritha, P.Yasodai	Cost Analysis Of Fuzzy Tandem Queues Using A Parametric Relation pair	Natural Volatiles & Essential Oils December 2021	
63	W.Ritha, P.Yasodai	Exploration Of Fuzzy Preemptive-resume Priority Queuing System Using Robust ranking Method	International Journal of Aquatic Sciences June 2021	
64	W.Ritha, P.Yasodai	Cost Interpretation Of Fuzzy Queuing Model Using Ranking Based On Statistical Beta Distribution	International Journal of Aquatic Sciences June 2021	
65	W.Ritha, P.Yasodai	Analyzation Of A Fuzzy Queuing Model with Flexible Service Policy Using Parametric Programming Approach	European Journal Of Molecular & Clinical Medicine September 2021	
66	W.Ritha, R.Saarumathi	Shoddy Pro-Offering Technique Using Lagrangian Method	International Journal of Aquatic Sciences JUNE 2021	
67	W.Ritha, R.Saarumathi	Production Inventory Model-Panorama Harnessing Geometric Programming	International Journal of Aquatic Sciences August 2021	
68	W.Ritha, R.Saarumathi	EPQ Model – An Endommager Etymology	European Journal Of Molecular & Clinical Medicine September 2021	
69	W.Ritha, R.Saarumathi	Amenable Carbon Emissions Harnessing Optimum Sustainable Inventory Management Amidst Backorder And Deterioration esteeming Geometric Programming	Natural Volatiles & Essential Oils December 2021	

70	I. Antonite Vinolin e, W. Ritha, J. Merline Vinotha	A Multi-Item Inventory Pricing Model With A Rate Of Production Proportional To The Rate Of Power Demand	Natural Volatiles & Essential Oils December 2021	
71	P. Selvi and W. Ritha	An Integrated Vendor-Buyer Inventory Model with Logistics and Environmental Consideration Based on Strict Carbon Cap Policy	Neuro Quantology, (Scopus) September 2022.	
72	P. Selvi and W. Ritha	Green Inventory Model with the Impact of Investment in Green Technology Based on Cap-and-Trade Policy	Neuro Quantology, (Scopus) September 2022	
73	P. Selvi and W. Ritha	EOQ and EPQ Inventory Models for Pollution Control with Integration of Environmental Cost	Journal of Algebraic Statistics (Web Of Science) August 2022	
74	P. Selvi and W. Ritha	Inventory Model for Culture and Creative Product through the Investment in Green Technology	Journal of Algebraic Statistics (Web Of Science) August 2022	
75	P. Selvi and W. Ritha	Green Inventory Model for Battery Waste Management	Journal of Positive school Psychology, (Scopus). June 2022	
76	P. Selvi and W. Ritha	Optimal Green Inventory Model to Achieve Sustainable Environment	Telematique (Web Of Science) August 2022	
77	P. Selvi and W. Ritha	Green Inventory Model for Recycling Food Waste	Telematique (Web Of Science) August 2022	

78	N. Rajeswari and W. Ritha	Analyzation of Multiserver Queuing Models with Reverse Balking and Impatient Customers under Imprecise environment	NeuroQuantology. (Scopus) September 2022.	
79	W. Ritha and N. Rajeswari	Exploration of Single Server Fuzzy Queuing Model With Erlang Service	NeuroQuantology, (Scopus) September 2022.	
80	W. Ritha and N. Rajeswari	Exploration of Single Server Fuzzy Queuing Model With Erlang Service	NeuroQuantology, (Scopus) September 2022.	
81	N. Rajeswari and W. Ritha	To examine pentagonal fuzzy numbers in finite source queuing models using the centroid of centroids technique in ambiguous environment	Telematique, (Web Of Science) August 2022.	
82	N. Rajeswari and W. Ritha	An Exact Analysis of the Deterministic Single Server Imprecise Queuing Model Using the Pascal's Triangular Graded Mean Technique under Different Fuzzy Numbers	Telematique, (Web Of Science) August 2022.	
83	N. Rajeswari and W. Ritha	To scrutinizes finite source queuing models with pentagonal fuzzy numbers using centroid of centroids technique under imprecise environment	Journal of Algebraic Statistics, (Web Of Science) August 2022.	
84	N. Rajeswari and W. Ritha	A precise study on Analyzation of FM/FD/1 imprecise queuing model under various fuzzy numbers: Execution Proportions by Pascal's triangular graded mean technique	Journal of Algebraic Statistics (Web Of Science) August 2022.	

85	P. Yasodai and W. Ritha	Analyzation of Extended Tri-cum Biseries Queuing Model in A Fuzzy Environment	Journal of Pharmaceutical Negative Results, (Scopus) January 2023.	
86	P. Yasodai and W. Ritha	A Multi Server Fuzzy Feedback Queuing Model With Encouraged Arrivals, Revoked And Retaining Back Out Customers	Journalof Pharmaceutical Negative Results, (Scopus) January 2023.	
87	P. Yasodai and W. Ritha	Scrutinizing Disparate Ranking in Fuzzy Tri-cum Biserial Bulk Queuing Model Tethered with a Common Server	Journal of Algebraic Statistics, (Web Of Science) August 2022.	
88	P. Yasodai and W. Ritha	An Impact of Reneging, Server Breakdown and Server Vacations of Fuzzy Queuing System Under Trisectional Fuzzification Approach	Journal of Algebraic Statistics, (Web Of Science) August 2022.	
89	R. Saarumathi and W. Ritha	A SustineriFabricatio Inventory Exemplar Cum Imperfectus Quality Under Preservation Technology and Investment in Quality Improvement	Journal of Algebraic Statistics, (Web Of Science) August 2022.	
90	R. Saarumathi and W. Ritha	Amending Inventory Stratum for Technophile Endowment Nether Carbon Tax, Cap-and-Trade and Strict Carbon Limit Regulations	Journal of Algebraic Statistics, (Web Of Science) August 2022.	
91	P. Yasodai and Dr. W. Ritha	A Multi server Fuzzy Feedback Queuing model with encouraged arrival revoked and retaining back out customers	Journal of Pharmaceutical negative results. June 2023	2229-7723 Volume 14, Issue 02
92	P. Yasodai and Dr. W. Ritha	Analyzation of Extended tri-cum biseries queuing model in a fuzzy environment	Journal of Pharmaceutical negative results. June 2023	2229-7723 Volume 14, Issue 02

93	P. Yasodai and Dr. W. Ritha	A Parametric Programming Approach to an Intuitionistic Fuzzy Queuing Model	European Chemical Bulletin July 2023	2063-5346 Volume 12, Issue 02
94	P. Yasodai and Dr. W. Ritha	A Different Approach on Fuzzy Erlang Queuing Model	European Chemical Bulletin July 2023	2063-5346 Volume 12, Issue 02
95	P. Yasodai and Dr. W. Ritha	Analytical Study of Neutrosophic Fuzzy Unobservable On-Off Fluid Queues in Equipoise Strategies	International Journal of Neutrosophic Science August 2023	2690-6805 Volume 12, Issue 02
96	P. Yasodai and Dr. W. Ritha	Scrutinization of a Neutrosophic Fuzzy Erlangian Queuing Model using a Parametric Programming Technique	International Journal of Neutrosophic Science August 2023	2690-6895 Volume 12, issue 02
97	R. Saarumathi and Dr. W. Ritha	A Billable Time Production Inventory Model for Crumbling Components with Non- Linear Assess and Stock Dependent Exigency	European Chemical Bulletin August 2023	2063-5346 Volume 12, Issue 02
98	K. Muthu Selvi and Dr. W. Ritha	Mathematical model to improve the Environmental Performance of Construction Waste Management.	Journal of Propulsion Technology October 2023	Volume 44, Issue 3
99	R. Saarumathi and Dr. W. Ritha	A Legitimate Productive Repertoire Replica Betwixt Envirotech Outlay Towards Fragile Commodities Using Trapezoidal Neutrosophic Fuzzy Number	International Journal of Neutrosophic Science March 2024	PP. 104-118 Vol. 24, No. 01

100	R. Saarumathi and Dr. W. Ritha	A Fabrication Repertoire Replica Amidst Partisan Commerce Layaway Strategem And Infallibility Cannibalizing Neutrosophic Fuzzy Number	International Journal of Neutrosophic Science April 2024	PP. 196-207 24, No. 01	Vol.
101	R. Saarumathi, W. Ritha	A Fabrication Repertoire Replica Amidst Partisan Commerce Layaway Strategem And Infallibility Cannibalizing Neutrosophic Fuzzy Number	International Journal of Neutrosophic Science (IJNS) Jun-24	Vol. 24, No. 01:ISSN 2690-6805	
102	R. Saarumathi, W. Ritha	A Legitimate Productive Repertoire Replica Betwixt Envirotech Outlay Towards Fragile Commodities Using Trapezoidal Neutrosophic Fuzzy Number	International Journal of Neutrosophic Science (IJNS) Jun-24	Vol. 24, No. 01:ISSN 2690-6805	

b. h-index & Citation Record

S. No.	Details	Web of Science	Scopus	UGC Care List	Google Scholar
2	Citations (Overall)	32	46	18	310
4	h-index	2	3	2	9
5	i-10 index	2	2	2	8

3. Honors/Awards/Medals / Fellowships for Outstanding work:

S. No.	Name of Award of Fellowship	Elected / Honorary Fellow	Awarded by	Year of Award
1	Mother Teresa Gold Medal Award	Elected	Global Economic Progress & Research Association	2013
2	Sr. Dona award for Research	Elected	Holy Cross College, India	2020
3	Women Achiever Award	Elected	International Research Association, England ,UK	2020
4	Sr. Dona award for Research	Elected	Holy Cross College, India	2021
5	Munnodi Penmani -2022	Elected	Bharathidasan University, Tiruchirappalli, India	2022
6	Sr. Dona award for Research	Elected	Holy Cross College, India	2022
7	South Asian Education Award for Excellence in Research	Elected	EET CRS Research Wing for Excellence in Professional Education and Industry, Noida	2023
8	Best Researcher Award in Science	Elected	Xavier Board of Higher Education, India	2024

4. My Strength

I am Dr.W.Ritha working as an Associate Professor in the Department of Mathematics, Holy Cross College, Tiruchirappalli. I have twenty six years of experience in teaching and research. I have held different administrative position like Vice Principal, Coordinator of UGC merge scheme and Head of the Department and have served as an external Subject expert in the interview panel in St.Joseph College and Jamal Mohamed college and resource person for many national and international seminars. I have Completed Major Research Project, Minor research project and Student research Project funded by UGC and TNCSAT. I have also Guided and Awarded Ph. D degree for 22 Women Candidates in the discipline of Mathematics and also the recipient of Sr. Dona Award for research in 2019, 2020 and 2021 consecutively. I have received Women Achiever Award from International Research Association, England ,UK in 2020 and have published more than 200 research papers in the referred journals ,UGC Care list Journals,

Scopus indexed journal and web of Science journals. I have volunteered myself in granting six patents titled on “An IOT Operated Foot operated Two Wheeler Steering Mechanism for Handicapped Persons”, “A Machine Learning Regression Vector For Managing Various Aspects in the field of Agriculture”, “Analysis of Amikacin in Human Serum by UHPLC with Fluorescence Detector”, “Detecting and Diagnosing of nosis using Deep Learning Method”. I had been a member of Board of studies, Academic council, Executive council, Governing body at Holy Cross College from 2007 till date for various terms. Furthermore I am a Life Time Member of IACSIT. Besides, I have served as a co-ordinator of UGC Merge Scheme, Feedback co-ordinator at HCC. I have also played a vital role in the HCC Admission Committee. Additionally, I have formulated a couple of Innovative Academic Programs for UG at HCC. In addition, I was a chair person and Organizing Secretary for various International conferences and seminars respectively. At present, I am one of the member of the Doctoral Committee and had been a Resource person for a few seminars, workshops and National conferences. My research work mainly focused on environmentally sustainable research model by considering Environmental protection, Social development, Economic development to bring out environmentally sustainable inventory model through green technology. The work concentrates on the Construction of Mathematical model for Sustainable environment by introducing different policies, bio parameters to control carbon emission and helps to reduce the emission and increase the energy resources to create a healthier environment for future generation. The contribution of my research work in machine learning can access increasingly sophisticated data and analytic tools which enable better decisions and reduce the waste in food and bio fuel production, all while minimizing negative environmental consequences. I have introduced traffic intensity in mathematical queuing models which consume less time and energy. In addition, I have also worked on fuzzy queuing models to explore the characteristics of queues under various environments as the spectacular extension of queues to the fuzzy world has real-life implications for decision making, operations research, computer technology and abstract theory. Futhermore, I have extended my research in the field of fuzzy inventory to prevail the sparsities that take place during the production and deterioration process and to

contemplate the various factors involved during the production process aiming to quantify vagueness and imprecision. The sequel of my work assist to handle uncertain parameters like market fluctuation, natural disaster, currency drops and sudden demand and return aiming at economic, technological and sustainable development. I am a polymath and posses the ability to master new ideas at full tilt and also an eloquent speaker with good communication skills, computer literate and an enthusiast in tying up with cohort to meet the goals with great kinship and solidarity.

