



Name : Dr. M.MUTHUKUMARI

Head, Assistant Professor

Department of Mathematics (UnAided)

A.P.C.Mahalaxmi College for Women, Thoothukudi

Email: mmkumari27@gmail.com

Date of Appointment : 1 June 2018

Education : M.Sc., M.C.A., M.Phil(CS)., Ph.D.

Specialization : Topology

Details of Ph.D. Degree :

1. Month and year of Ph.D. Degree awarded : July, 2016

2. Subject and Title of the Thesis : **Subject:** Mathematics

Title : “A Study of Fuzzy Convergence”

Teaching Experience: 5 years

Educational Qualifications:

S.No	Degree	Subjects	Specialization	Year of Passing	% of Marks/ Grade/Class/ Rank	Name of the Institution/ College/ University/ Board
1	Ph.D.	Mathematics	Topology	2016	Awarded	Dr.S.S.Pillai Center for Research in Mathematics V.O.Chidambaram College, Thoothukudi
2	SET/NET/SLET	---	---	---	---	---
3	M.A./M.Sc.	Mathematics	---	2011	81.09 % First with Distinction	A.P.C.Mahalaxmi College for Women Thoothukudi
4	M.Phil	Computer Science	---	2007	61% First Class	M.S.University Education Centre Thoothukudi
5	M.C.A	Computer Science	---	2004	68.27% First Class	Sri Sarada College for Women Tirunelveli
6	B.A./B.Sc.	Mathematics	---	2001	82% First Class	Thiruvalluvar College Papanasam
7	12 th	Maths & Computer Science Group	---	1998	78% First Class	Amali Girls Higher Secondary School Irudayakulam
8	10 th	-	---	1996	81% First Class	Amali Girls Higher Secondary School Irudayakulam

Academic Achievements :

1. Scored Centum in one Maths Paper at B.Sc., level and received College Prize for the year 1999 – 2000
2. Received Second Prize in the Short Story Writing in the College Day Competitions for the year 1999 – 2000.
3. Received Endowment Prize for Excellence in Thirukkural for the year 2000 – 2001.
4. Received First Prize in Value Education (Endowment Prize) during MCA., for the year 2001 - 2002
5. Received Second prize in Merit during M.Sc., for the year 2010 -2011.
6. Pass the exam “velga velgavey” conducted by Vivekananda Kendra – Kanyakumari during M.Sc.,
7. Attended National Integrated camp conducted by university of Kerala at Bishop Moore College, Mavelikara.

Administrative Experience:

Sl No	Position Held	Name of the Institution	Duration		Years of Experience
			From	To	
1	Member in Internal Examination Committee	A.P.C.Mahalaxmi College for Women Thoothukudi	2019	2021	2
2	Member in Enrich Journal Committee	A.P.C.Mahalaxmi College for Women Thoothukudi	2020	Till data	2

	Nature of the Training (Academic / Administration)	Theme	Name of the Institution	Duration	
				From	To
1.	FDP	LaTex	V.O.Chidambaram College Thoothukudi	29.4.2020	5.5.2020 One Week
2.	FDP	MOODLE learning Management System	V.O.Chidambaram College Thoothukudi	6.5.2020	10.5.2020 Five days
3.	FDP	Channelizing Innovation and Entrepreneurship through ICT Tools	IIC Holy Cross College	12.5.2020	16.5.2020 five days
4.	FDP	MA8551 Algebra and Number Theory	Ramco Institute of Technology	26.5.2020	27.5.2020 two days
5.	Orientation Program	Orientation Program for Faculty	MHRD Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching	June 04 2020	July 01 2020 4 weeks
6.	FDP	Pure and Applied Mathematics	Jamal Mohamed College Tiruchirappalli	11.06.2020	17.06.2020 One week
7.	FDP	Research Capacity Building under UGC Scheme	V.O.Chidambaram College	15.06.2020	17.06.2020 Three days
8.	FDP	Appraisal of Mathematical Learning outcomes in cybergogy environment	Arulandar college karumathur	15.07.2020	17.07.2020 Two days
9.	Workshop	Six days workshop on Mathematical Analysis (MATANA 2020)	Loyola College Chennai	08.06.2020	13.06.2020 Six Days
10.	Workshop	Workshop on Creating Interactive E-Content	Universal Teachers Academy, Puducherry	03.05.2021	04.05.2021 Two days
11.	FDP	Research Methodology	MAT.K.M.Patel SR.College of	24.05.2021	31.05.2021 Seven Days

			Commerce and Science		
12.	FDP	One week Online Faculty Development Program on LaTeX	Auxilium College of Arts and Science	07.06.2021	12.06.2021 One week
13.	FDP	Writing and Publishing Quality Research Paper and Proposal	Shri Annadaneshewar Arts Science and Commerce College and P.G.Centre Naregal	11.06.2021	15.06.2021 Five Days
14.	FDP	Experimental Teaching-Corporate Cognizance”	Sri Ramakrishna College of Arts and Science and Tata Consultancy Service	09-08-2021	13-08-2021 Five Days
15.	FDP	Productive Researcher:How to keep writing and improve research impact in digital era	MES college Marampally	17-08-2021	One day
16.	FDP	Changing Dimensions of IPR in India-An Intellectual Deliberation	Jain College & Karnataka State Council for Science and Technology	12-08-2021	17-08-2021 Five days
17.	FDP	Revised NAAC frame work guidelines	V.O.Chidambaram College Thoothukudi	23-07-2021	30.07.2021 One week
18.	FDP	Advanced Methodologies for Contemporary Research	Govt.Ramnarayan Chellaram College of Commerce and Management	16-08-2021	23-08-2021 Seven days
19.	FDP	A Roadway for Critical Thinking and Innovative Research	Sahyadri commerce and Management College Shimoga Karnataka	26-08-2021	31-08-2021 Five Days
20.	FDP	Research Methodology in Social Sciences	Dr.G.Shankar Govt.women’s First Grade College Udupi	22-09-2021	28-09-2021 Seven days
21.	Workshop	Bloom’s Taxonomy Based Question Paper Design for Outcome Based Education in Mathematics	UGC PARAMARSH Scheme Ayya Nadar Janaki Ammal College Sivakasi	27-09-2021	One day

22.	FDP	Developing E-Content for MOOC through SWAYAM for UGC/CEC	Dept. of English & IQAC APCM College	10-10-2021	One day
23.	FDP	Creation of E-Content	Dept. of Tamil APCM College	10-02-2022	One day
24.	FDP	Action Research	Dept. of Tamil APCM College	11.02.2022	One day
25.	FDP	Mathematics and its Applications	Department of Mathematics V.O.Chidambaram College	23.03.2022	30.03.2022

Publications - Books / Book Chapter/Proceedings

Sl. No	Title of the Book / Chapter	Publisher	ISSN / ISBN No
1	Fuzzy β * Convergence of Generalized Filter	Second International Conference on Applied Mathematics and Intellectual Property Rights APCM College	9789380430331
2	New Types of Closed Sets in Generalized Topology	Second International Conference on Applied Mathematics and Intellectual Property Rights APCM College	9789380430331

Research Papers in Journals :

Sl. No	Title of the Article	Name of the Journal	Vol, Issue & Page no	Year of Publications	ISSN no
1	Fuzzy Sequences in Metric Spaces	International Journal of Mathematical Analysis Scopus	Vol 8, no 15, Pg no-699-706	2014	---
2	Fuzzy Nets	International Journal of Mathematical	Vol 8, no 35, Pg.no. -1715-1721	2014	----

		Analysis Scopus			
3	Fuzzification of Filters	Mathematical Sciences International Research Journal Peer Reviewed	Vol 3 , issue 2, Pg.no. – 669-671	2014	2278-8697
4	Disconvergent and Divergent Fuzzy Sequences	International Mathematical Forum Peer Reviewed	Vol 9, no 33, Pg.no.- 1625-1630	2014	----
5	Fuzzy Sequences and Limit Points	International Journal of Mathematical Sciences and Applications Peer Reviewed	Vol 5, no.2, Pg.no.227-232	2015	2230-9888
6	Fuzzy Map	International Journal of Current Research in Science and Technology Peer Reviewed	Vol 1, issue 8, Pg.no.-21- 23	2015	2394-5745
7.	Fuzzy Basis	International Journal of Current Research in Science and Technology Peer Reviewed	Vol 1, issue 9, Pg.no.- 7-9	2015	2394-5745
8.	Alpha Cuts of Fuzzy Basis	International Journal of Mathematics and its Applications Peer Reviewed	Vol 3, issue 4-C, Pg.no.-35-37	2015	2347-1557
9	Convergence of Fuzzy Filter	International Journal of Mathematical Sciences and Applications Peer Reviewed	Vol 5, no 2, Pg.no.207-210	2015	2230-9888
10	Convergence of Fuzzy Generalized Filter	Enrich Research Journal APCM College	Page no. 44-51	2015	---
11	Fuzzy CO-Finite Filter	Mathematical Sciences International Research Journal	Vol 5 Spl issue, Pg.no-52-54	2016	2357-8697
12	A Note on Fuzzy Filter	Enrich Research Journal APCM College	Vol VIII(I) Jul-Dec Pgno.83-86	2016	----
13	Some Types of Fuzzy Sequences	Enrich Research Journal APCM College	Vol VIII(I) Jul -Dec, Pgno.87-91	2016	----
14	S-Fuzzy Net	Enrich Research APCM College	Vol VIII(II) Jan-Jun Pgno.97-100	2017	-----
15	Bounded Fuzzy Sequences	Journal of Emerging Technologies and Innovative Research (UGC)	Vol 6, Issue 2 Pg.no.1050-1051	2019	2349-5162
16	Continuous Fuzzy Map	Journal of Emerging Technologies and Innovative Research (UGC)	Vol 6, Issue 2 Pg.no.1052-1053	2019	2349-5162
17	Fuzzy Pre Convergence of	Journal of Emerging Technologies and	Vol 6, Issue 2 Pg.no.490-493		2349-5162

	Fuzzy Nets	Innovative Research (UGC)		2019	
18	Fuzzy β Convergence of Generalized Filters	Journal of Emerging Technologies and Innovative Research (UGC)	Vol 6, Issue 2 Pg.no. 753-754	2019	2349-5162
19	Fuzzy Pre Convergence of Fuzzy Sequences	Journal of Emerging Technologies and Innovative Research (UGC)	Vol 6, Issue 2 Pg.no.762-765	2019	2349-5162
20	G Convergence and Fuzzy G Convergence	Alochana Chakra Journal (UGC)	Vol IX, issue V, Pgno. 2148-2152	2020	2231- 3990
21	New Types of Open Sets in Continuous Functions in Generalized Topology	Studies in Indian Place Names UGC Care Journal (UGC)	Vol 40, issue 74 Pgno. 222-231	2020	2394- 3114
22	Tri β BiConnected Spaces	Journal of Xidian University	Vol 14,issue 4 , Pgno. 270-275	2020	1001- 2400
23	Some New Sets in Generalized Topology	Advances in Mathematical Scientific Journal (Scopus)	Journal 9, no 5, Pgno. 2711-2716	2020	1857- 8365
24	Tri β Functions	Advances in Mathematical Scientific Journal (Scopus)	Journal 9, no 5, Pgno. 2717-2721	2020	1857- 8365
25	Fuzzy β * Convergence of Generalized Filter	Second International Conference on Applied Mathematics and Intellectual Property Rights	Pageno. 138-142	2021	Proceedings 97893804303 31
26	New Types of Closed Sets in Generalized Topology	Second International Conference on Applied Mathematics and Intellectual Property Rights	Pageno.- 133-137	2021	Proceedings 97893804303 31
27	A Study On I - Rectangular Semi Group	International Multi disciplinary Innovative Research Journal	Vol VI Issue 1 Page no 1-7	2021	2456 – 4613

Papers Presented in CONFERENCES / SEMINAR - INTERNATIONAL :

S.No	Name of the Event	Date & Venue	Title of the Paper
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1	International Conference on Mathematical Sciences	21-23 August 2014 Madurai Kamaraj University, Madurai.	Fuzzification of Filters
2	International Conference on Recent Trends in Multi-Disciplinary Research	20-21 December 2018 A.P.C.Mahalaxmi College for women, Thoothukudi	Bounded Fuzzy Sequences
3	International Conference on Recent Trends in Multi-Disciplinary Research	20-21 December 2018 A.P.C.Mahalaxmi College for women, Thoothukudi	Continuous Fuzzy Map
4	International Conference on Recent Trends in Multi-Disciplinary Research	20-21 December 2018 A.P.C.Mahalaxmi College for women, Thoothukudi	Fuzzy Pre Convergence of Fuzzy Nets
5	International Conference on Recent Trends in Multi-Disciplinary Research	20-21 December 2018 A.P.C.Mahalaxmi College for women, Thoothukudi	Fuzzy Beta Convergence of Generalized Filters
6	International Conference on Recent Trends in Multi-Disciplinary Research	20-21 December 2018 A.P.C.Mahalaxmi College for women, Thoothukudi	Fuzzy Pre Convergence of Fuzzy Sequence
7	International Conference on Applied Mathematics and Intellectual Property Rights	20-21 January 2020 A.P.C.Mahalaxmi College for Women Thoothukudi	Some New Sets in Generalized Topology
8	International Conference on Applied Mathematics and Intellectual Property Rights	20-21 January 2020 A.P.C.Mahalaxmi College for Women Thoothukudi	Tri Beta Function
9	Second International Conference on Applied Mathematics and Intellectual Property Rights	09, 10 March 2021 A.P.C.Mahalaxmi College for Women Thoothukudi	Fuzzy β^* Convergence of Generalized filter
10	Second International Conference on Applied Mathematics and Intellectual Property Rights	09, 10 March 2021 A.P.C.Mahalaxmi College for Women Thoothukudi	A study on I – Rectangular Semi Group
11	Second International Conference on Applied Mathematics and Intellectual Property Rights	09, 10 March 2021 A.P.C. Mahalaxmi College for Women, Thoothukudi	New Types of Closed sets in Generalized Topology
12	Third International Conference on Applied Mathematics and Intellectual Property Rights	01,02 September 2022 A.P.C. Mahalaxmi College for Women, Thoothukudi	Properties Of P^* Closed Set And β^*P^* Closed Sets in Generalized Topology

13	Third International Conference on Applied Mathematics and Intellectual Property Rights	01,02 September 2022 A.P.C. Mahalaxmi College for Women, Thoothukudi	Quasi β^* -Open & Quasi β^* - Closed Functions in Topological Spaces
14	Third International Conference on Applied Mathematics and Intellectual Property Rights	01,02 September 2022 A.P.C. Mahalaxmi College for Women, Thoothukudi	(1,2, 3) Soft Ars Closed Sets in Soft Tri Topological Spaces
15	Third International Conference on Applied Mathematics and Intellectual Property Rights	01,02 September 2022 A.P.C. Mahalaxmi College for Women, Thoothukudi	P^* Open Set And β^*P^* Open Sets in Generalized Topology

Papers Presented in CONFERENCES / SEMINAR - NATIONAL :

S.No	Name of the Event	Date & Venue	Title of the Paper
1	Recent Trends in Mathematics	12 th & 13 th October 2011 A.P.C.Mahalaxmi College for women, Thoothukudi.	Fuzzy Sequences
2	Emerging Trends in Graph Theory and Fuzzy Mathematics	6 th September 2013 A.P.C.Mahalaxmi College for women, Thoothukudi.	Convergence of Fuzzy Sequence
3	Recent Research Developments in Mathematics	7 th March 2014 Thiruvalluvar College, Papanasam	Fuzzy Nets
4	Advances in Fuzzy Algebra, Fuzzy Topology and Fuzzy Graphs	22 & 23 January 2015 A.P.C.Mahalaxmi College for women, Thoothukudi.	Convergence of Fuzzy Generalised Filters
5	Ramanujan's Contributions and Recent Trends in Mathematics	21-23 December 2015 Madurai Kamaraj University, Madurai.	Fuzzy Co-Finite Filter
6	Mathematics and its applications scenario in 21 st century	28 th February 2017 A.P.C.Mahalaxmi College for Women Thoothukudi	S – Fuzzy Net
7	Modern Advances in Pure and Applied Mathematics	13 Feb 2020 Pope's College Sawerpuram	Tri Beta Biconnected Spaces

**National / International Seminars, Symposia /
Conferences and Workshops organized :**

Sl. No	Title	Sponsor's Name	Duration
1	Importance of Statistics	Coordinator in organizing the webinar A.P.C.Mahalaxmi College, Thoothukudi	03.07.2020
2	CoConvenor in International Conference	Second International Conference on Applied Mathematics and Intellectual Property Rights	09.03.2021 & 10.03.2021

No. of Lectures delivered: 1

S.No	Programme	Venue	Topic	Date
1..	Research Oriented Lecture Series	A.P.C.Mahalaxmi College, Thoothukudi.	Fuzzy Filter	14.02.2018