



## **Dr.M.Muthukumari**

Assistant Professor.

PG Department of Mathematics.

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, Mathematics.

### **Educational Qualification :**

<b>Degree</b>	<b>Institution</b>	<b>specialization</b>	<b>Year</b>
B.Sc.	Thiruvalluvar College, Papanasam	Mathematics	2001
M.C.A	Sri Sarada College Tirunelveli	Computer Science	2004
M.Phil(CS)	M.S.University, Education Centre, Thoothukudi	Computer Science	2007
M.Sc.	A.P.C.Mahalakshmi college Thoothukudi	Mathematics	2011
Ph.D	Dr.S.S. Pillai Center for Research in Mathematics V.O.Chidambaram College Thoothukudi	Topology, FuzzyLogic	2016

## Paper Publications :

1. “Fuzzy Sequences in Metric Spaces” in Int. Journal of Math. Analysis, Vol 8, 2014, no 15, page 699 – 706.
2. . “Fuzzy Nets” Int. Journal of Math.Analysis, vol 8, 2014, no 13,page 1715– 1721.
3. “Fuzzification of Filters” Mathematical Sciences International Research Journal volume 3 Issue 2 (2014), page 669 – 671.
4. “Disconvergent and Divergent Fuzzy Sequences” International Mathematical Forum Vol 9, 2014, no 13, page 1625 – 1630.
5. “Fuzzy Sequences and Limt Points” Int.Jr. of Mathematical Sciences and Applications, Vol 5, no 2, 2015, page 227 – 232.
6. “Fuzzy Map” International Journal of Current Research in Science and Technology, Volume 1, Issue 8(2015), page 21 – 23.
7. “Fuzzy Basis” International Journal of Current Research in Science and Technology, Volume 1, Issue 9(2015), page 7 – 9.
8. “Alpha Cuts of Fuzzy Basis” International Journal of Current Research in Science and Technology, Volume 3, Issue 4 - C(2015), page 35 – 37.
9. “Convergence of Fuzzy Filters” Int. Journal of Mathematical Sciences and Applications, Vol 5, no 2, 2015, page 207 – 210.
10. “Convergence of Fuzzy Generalized Filters”, Proceedings of the UGC sponsored Two Day National Conference, Special Issue- Enrich, APCM College Thoothukudi, page 44 – 51.
11. “Fuzzy CO-Finite Filter” Mathematical Sciences International Research Journal, Volume 5 spl Issue (2016) ISSN 2357-8697, page 52 – 54. “A Note on Fuzzy Filter” Special Issue- Enrich, APCM College Thoothukudi, Volume VIII(I): 83-86, July-Dec 2016.
12. “Some Types of Fuzzy Sequences” Special Issue- Enrich, APCM College Thoothukudi, Volume VIII(I): 87-91, July-Dec 2016.
13. “S--FuzzyNet” Special Issue- Enrich, APCM College Thoothukudi, Volume VIII(II): 97-100, Jan-Jun 2017.
14. “Bounded Fuzzy Sequences” Journal of Emerging Technologies and Innovative Research ,Vol 6,Issue 2 pg 1050-1051, 2019.

15. “Continuous Fuzzy Map” Journal of Emerging Technologies and Innovative Research ,Vol 6,Issue 2 pg 1052-1053, 2019.
16. “Fuzzy Pre Convergence of Fuzzy Nets” Journal of Emerging Technologies and Innovative Research ,Vol 6,Issue 2 pg 490-493, 2019.
17. “Fuzzy Beta Convergence of Generalized Filters” Journal of Emerging Technologies and Innovative Research ,Vol 6,Issue 2 pg 753-754, 2019.
18. “Fuzzy Pre Convergence of Fuzzy Sequence” Journal of Emerging Technologies and Innovative Research ,Vol 6,Issue 2 pg 762-765, 2019.

### **Paper Presentation:**

<b>S.No</b>	<b>Title of the Paper</b>	<b>Name of the Programme</b>	<b>Date &amp; Venue</b>	<b>Level</b>
1	Fuzzy Sequences	Recent Trends in Mathematics	12 <sup>th</sup> & 13 <sup>th</sup> October 2011 A.P.C.Mahalaxmi College for women, Thoothukudi.	National
2	Convergence of Fuzzy Sequence	Emerging Trends in Graph Theory and Fuzzy Mathematics	6 <sup>th</sup> September 2013 A.P.C.Mahalaxmi College for women, Thoothukudi.	National
3	Fuzzy Nets	Recent Research Developments in Mathematics	7 <sup>th</sup> March 2014 Thiruvalluvar College, Papanasam	National
4	Fuzzification of Filters	International Conference on Mathematical Sciences	21-23 August 2014 Madurai Kamaraj University, Madurai.	International
5	Convergence of Fuzzy Generalised Filters	Advances in Fuzzy Algebra, Fuzzy Topology and Fuzzy Graphs	22 & 23 January 2015 A.P.C.Mahalaxmi College for women, Thoothukudi.	National
6	Fuzzy Co-Finite Filter	Ramanujan’s Contributions and Recent Trends in Mathematics	21-23 December 2015 Madurai Kamaraj University, Madurai.	National
7.	Bounded Fuzzy Sequences	International Conference on Recent Trends in Multi-Disciplinary Research	20-21 December 2018 A.P.C.Mahalaxmi College for women, Thoothukudi.	International

8.	Continuous Fuzzy Map	International Conference on Recent Trends in Multi-Disciplinary Research	20-21 December 2018 A.P.C.Mahalaxmi College for women, Thoothukudi.	International
9	Fuzzy Pre Convergence of Fuzzy Nets	International Conference on Recent Trends in Multi-Disciplinary Research	20-21 December 2018 A.P.C.Mahalaxmi College for women, Thoothukudi.	International
10	Fuzzy Beta Convergence of Generalized Filters	International Conference on Recent Trends in Multi-Disciplinary Research	20-21 December 2018 A.P.C.Mahalaxmi College for women, Thoothukudi.	International
11	Fuzzy Pre Convergence of Fuzzy Sequence	International Conference on Recent Trends in Multi-Disciplinary Research	20-21 December 2018 A.P.C.Mahalaxmi College for women, Thoothukudi.	International

### Conferences / Seminars / Workshops Attended

S.No	Name of the Programme	Name of the Venue	Period	Level
1	Graph Theory and Topology	V.O.Chidambaram College, Thoothukudi.	02.04.2012	State
2	Applications of Topology to Analysis	Shri Sakthikailashsh womens College, Salem.	12.03.2014	National
3	Workshop on Mini Course on La Tex	V.O.Chidambaram College, Thoothukudi.	22.09.2016 23.09.2016	State
4	Role of Faculty in Institutional Development	V.O.Chidambaram College, Thoothukudi.	17.08.2019	college

**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

### 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.

### **Total Teaching Experience**

U.G. Level : 18 Months

P.G. Level : 18 Months

### **Participation in College Committees:**

- Member in “Research Forum” (12 months)
- Member in ECO Club (12 months)
- Member in Internal Examination Committee(6 Months)
- Member of Criterion I