



Dr. S. AMUTHA
Assistant Professor

Contact

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Academic Qualifications: M.Sc., M.Phil., Ph.D., PGDCA.

Teaching Experience: 8 Years

Research Experience: 13Years

Additional Responsibilities

1. Member of the organizing committee in the State Level Quiz contest 2017 held on 6th March , 2017 at Alagappa University, Karaikudi.
2. Memembr of the organizing committee in the International Conference on Mathematical Modelling and Computational Methods in Science and Engineering during 20-22 February 2017 at Aliquippa University, Karaikudi.
3. Act as a Coordinator of the National Mathematics day on 22nd December 2016 at Alagappa University, Karaikudi.

4. Member of the organizing committee in the International workshop on Data Analysis using SPSS held during 15-19 December 2016 at Alagappa University, Karaikudi.
5. Member of the Women Empowerment Cell since 23rd May, 2016 to till date.
6. Joint Secretary of the organizing committee in the National Conference on Pure and Applied Mathematics (NCPAM16) held during 30-31 March, 2016 Alagappa University, Karaikudi.
7. Act as a member of the squad team for the year 2016 Regular Examinations of our Affiliated Colleges
8. Act as a Co-ordinator for Village Placement Programme (VPP) during 25-27 September 2015 at Kundrakudi.
9. Act as a Co-ordinator for the State Level Quiz Contest held on 4th March, 2014 Alagappa University, Karaikudi.
10. Deputed as an University Representative to oversee the conduct of Distance Education Examination for December 2012, December 2013 and May 2016
11. Member of the organizing committee in the 125th Birth Anniversary of Srinivasa Ramanujan and National Mathematical Year Celebrations of one day seminar on Pure and Applied Mathematics held on 20th December 2012 Alagappa University, Karaikudi.

12. Areas of Research

Graph Theory, Domination in Graphs, Algorithmic Graph Theory, Optimization Techniques with Graph Theory and Discrete Mathematics

Research Supervision / Guidance

Program of Study		Completed	Ongoing
Research	Ph.D.	Xx	02
	M.Phil.	12	03
Project	PG	32	12
	UG / Others	Xx	Xx

Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books / Chapters / Monographs / Manuals
1	1	1	1	1

1. N. Sridharan, **S. Amutha** and S.B. Rao, Induced Subgraphs of Gamma Graphs, Discrete Math. Algorithm. Appli. Vol. 5, Iss No. 3, 1350012 (2013) 1-5, DOI: 10.1142/S1793830912500122 [World Scientific Publication]

2. **S. Amutha** and N. Sridharan, "A note on sets V_t^-, V_t^0, V_t^+ of a simple graph G with $\delta(G) \geq 2$ ", Journal of Pure and Applied Mathematics: Advances and Applications Vol. 9, Number 2, (2013) 69-79 [Scientific Advances Publishers]

3. **S. Amutha** and N. Sridharan, - Graph of a Graph G , Lecture Notes Series, Number 7, Discrete Mathematics, Proc. ICDM 2006, ISBN: 978-81-902545-7-1 pp.255-262 [Ramanujan Mathematical Society]

4. K. Subramanian, **S. Amutha** and N. Sridharan, Gamma exchangeable graph of a graph G , Proc. NCFOTGA'12 (2012) 88-94.

5. N. Sridharan and **S. Amutha**, - Characterization of Total very excellent trees, Mathematics and Computing, Springer Proceedings in Mathematics and Statistics, ISSN: 2194-1009, 2194-1017 (electronic) ISBN 978-81-322-2451-8, 978-81-322-2452-5 (eBook) (2015), Vol 139, pp.265-275 DOI: 10.1007/978-81-322-2452-5-18 (Springer India 2015) (Book Chapter 18)

Funded Research Projects

Completed Projects

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	UGC	24 Feb 2014	24 Feb 2016	A Study on various half-domination parameters of a graph	6,00000

Events organized in leading roles

Number of Seminars / Conferences / Workshops / Events organized: 02

1. Act as a Coordinator of the National Mathematics day on 22nd December 2016 at Alagappa University, Karaikudi.
2. Act as a Co-ordinator for Village Placement Programme (VPP) during 25-27 September 2015 at Kundrakudi.
3. Act as a Co-ordinator for the State Level Quiz Contest held on 4th March, 2014 Alagappa University, Karaikudi.

Events Participated (optional)

Conferences / Seminars / Workshops: 10

Poster & Paper Presentations in Conferences:

1. Presented a paper entitled “ Characterization of Total very excellent trees” in an International Conference on Mathematics and computing” held during 05-10 January 2015 at Haldia Institute of Technology, Haldia, West Bengal, India.
2. Presented a paper entitled “ Reinforcement Number of a Graph with respect to Half - Domination” in National Conference on Recent Advances in Graph Theory” – NCRAGT - 2014 held during 06-07 March 2014 at Periyar University, Salem.
3. Presented a paper entitled “ Gamma-Half graphs of paths and cycles” in “National Conference on Graph Theory Generalization and Applications” – NOGTGA- 2012 held during 20-21 August 2012 at Sastra University, Tanjavur.
4. Presented a paper entitled “ Gamma exchangeable graph of a graph G” in National Conference on “Fuzzy Optimization and Graph Theory with Applications” – NCFOGTA 12 held during 23-24 February 2012 at Mepco Schlenk Engineering College, Sivakasi.
5. Presented a paper entitled “Gamma – fractional domination number of a graph G” in the National Conference on “Challenges in Mathematical Modelling” held on 22 December 2011 at Alagappa University, Ramanujan Centre for Higher Mathematics, Karaikudi.

6. Presented a paper entitled “ Lambda domination number γ lambda of G of a graph G” in the Platinum Jubilee 75th Annual Conference of the Indian Mathematical Society (IMS) during December 27 – 30, 2009 at n-CARDMATH, Kalasalingam University, Krishnankoil.
7. Presented a paper entitled “Total very excellent trees” at the National Conference on Recent Trends in Applicable Mathematics for Engineering and Technology on 2nd and 3rd April, 2009 at K.L.N. College of Engineering, Pottapalayam, Sivagangai Dist.
8. Presented a paper in the National Conference on “Algebra, Graph Theory and their Applications” organised by the Department of Mathematics, Manonmaniam Sundaranar University, Tirunelveli from 05.12.2007 to 07.12.2007.
9. Presented a paper entitled “ γ_i - Graph of a Graph G” in the International Conference on Discrete Mathematics held between December 15 – 18, 2006 at the Department of Mathematics, Indian Institute of Science, Bangalore.
10. Presented a paper entitled “ γ_i - Graphs” in XXX Indian Social Science Congress, held between December 27 – 31, 2006 at Alagappa University, Karaikudi.

Workshops, Seminars & Conferences attended:

1. **Participated** in the workshop on “R with Application to Quantitative Finance” held during August 26 – 28, 2016 at Birla Institute of Technology and Science Pilani, K K Birla Goa Campus, Goa (India).
2. **Participated** in the pre – conference workshop on “Algebraic and Applied Combinatorics” held during June 15 – 17, 2016 at Ramanujan Mathematical Society, National College, Tiruchirapalli, Tamil Nadu.
3. **Participated** in the National Level workshop on “Research methods and data analysis using SPSS” held on 18th March 2016 at Thanthai Roever College, Perambalur, Tamil Nadu.
4. **Participated** in the Two day National seminar on “Safety and security of women and girls in public spaces: Planning and designing mechanism” held on 4th – 5th December, 2015 at Alagappa University, Karaikudi , Tamil Nadu.

5. **Participated** in the Two day National Conference on “ Impact of Electronic Resources on Teaching, Learning and Research: Issues and opportunities” held on 24th and 25th April, 2015 at Alagappa University, Karaikudi , Tamil Nadu.
6. **Participated** in an International Conference on “Mathematics and computing” held during 05-10 January 2015 at Haldia Institute of Technology, Haldia, West Bengal, India.
7. **Participated** in the National Conference on “Mathematical Modelling and Soft Computing” held on September 25th and 26th, 2014 at College of Engineering, Vatakara, Kerala.
8. **Participated** in the National Conference on “Recent Advances in Numerical Methods and its Applications” RANMA - 2014 held on January 27 - 28, 2014 at Pondicherry University, Puducherry.
9. **Participated** in the National Conference on “Frontiers In Analysis And Differential Equations” (NCFADE – 2012) held on December 19 - 20, 2012 at Bharathidasan University, Tiruchirappalli.
10. **Participated** in an International Conference on “Legacy Of Srinivasa Ramanujan” held on December 14 - 15, 2012 at Srinivasa Ramanujan Centre, Sastra University.
11. **Participated** in the National Conference on “Recent Trends In Mathematics And Its Applications” held on December 22, 2010 at Alagappa University, Karaikudi.
12. **Participated** in the National Seminar On “Analysis and Number Theory” held on 21 and 22, January 2010 at Alagappa University, Karaikudi.
13. **Participated** in the “One Day Seminar on Mathematics” held on 22.12.2009 at School Of Mathematics, Alagappa University, Karaikudi.
14. **Participated** in the “National Seminar on Applications of Algebra and Number Theory” held during December 4 – 5, 2009 at National College, Tiruchirapalli.
15. **Participated** in the “Instructional Lecture series in Algebra” held on 30.09.2009 at Alagappa University, Karaikudi.
16. **Participated** in the “Tamizhaka Arivial pearavai onpatham karutharangam” between September 11 – 13, 2009 at Alagappa University, Karaikudi.
17. **Participated** in the National Seminar on “Fuzzy Mathematics and its Applications” on 9th March 2009 at Alagappa University, Karaikudi.

18. **Participated** in the “National Seminar on Differential Equations” on March 6 & 7 2009 at Alagappa University, Karaikudi.
19. **Participated** in an “International Conference on Stochastic Modelling” (ICSM09) during February 12 – 14, 2009 at Alagappa University, Karaikudi.
20. **Participated** in the Srinivasa Ramanujan Memorial Symposium on April 26, 2007 at SASTRA University, Srinivasa Ramanujan Centre, Kumbakonam, India.
21. **Participated** the lecture series on First INDO -US Lecture Series On “Discrete Mathematical Chemistry” between January 8 to 11, 2007 at PES Institute of Technology, Bengalooru, India.
22. **Participated** in the National Seminar on “FUZZY Mathematics and its Applications” at Department of Mathematics, Alagappa University, Karaikudi on 3rd and 4th March, 2006.

Other Training Programs

Orientation\Refresher courses\Faculty Development Programmes:

Participated in the **Refresher Course in Mathematics** obtained grade ‘A’ from September 7th to September 27th, 2016 at UGC – HRDC, Pondicherry University, Pondicherry.

Attended the “**Faculty Development Programme on Entrepreneurship**” organized by the Entrepreneurship-cum Skill Development Centre from November 12, 2015 to November 26, 2015 at Alagappa University, Karaikudi.

Participated in the **Orientation Programme** obtained grade ‘A’ from May 30, 2013 to June 26, 2013 at Academic Staff College, Madurai Kamaraj University, Maduarai.

Participated in the **Orientation Programme** organized by the Curriculum Development Cell, Alagappa University, Karaikudi from 24 – 31st August, 2012 under the UGC initiative of National Mission on Teachers and Training.

Participated in the Summer school in Algebra and its Applications at Department of Mathematics, Alagappa University, Karaikudi from 22nd May to 9th June 2006.

Membership in

Professional Bodies

1. Life Member in Indian Mathematical Society(IMS)
2. Life Member in Kerala Mathematical Society
3. Life Member in Forum Advanced Training Education and Research Academy of India.

Academic Bodies (such as Board of Studies etc.,)

1. Board of studies member in Department of Mathematics, Tanjavur Tamil University, Tanjavur in the year 2016.

Resource persons in various capacities

Number of Invited / Special Lectures delivered: 4

Delivered a **key-note address** in Two days State Level Science Symposium at Alappa Chettiar College of Engineering and Technology, Karaikudi-3 on 1st March 2017.

Chair person in the “**International Conference on Discrete and Computational Mathematics**” held during February 16-18, 2017 at Gandhigram Rural Institute- Deemed University, Dindigul.

Delivered a **Plenary Lecture** on “**Graphs and its Applications**” in the National Seminar on Neoteric Tenor in Graph Theory at Dr.Umayal Ramanathan College for Women, Karaikudi on 15th February 2017.

Delivered a **key-note address** on “**Menger’s theorem**” as a Chief Guest in Maths Association at APSA College, Tiruppattur on 19th September 2014.