

Name : Dr. J. S. Sathya
Designation : Assistant Professor
Department : Mathematics
Date of joining : 01.09.2023
Mobile : 9500440484, 9487951103
Email : sathya@americancollege.edu.in

Educational Qualifications: M.Sc, B.Ed, Ph.D., TNSET

COURSE	INSTITUTION	PERCENTAGE	YEAR
Ph.D	Mother Teresa Women's University, Kodaikanal	Excellent	2011-2015
M.Phil	Gandhigram Rural University, Gandhigram	86%	2008-2009
B.Ed	Women's University College of Education, Kodaikanal	82%	2007-2008
M.Sc	Lady Doak College, Madurai	84%	2005-2007
B.Sc	Fatima College, Madurai	89%	2002-2005
HSC	St.John's Girls Hr.Sec.School, Kodaikanal	92%	2001-2002
SSLC	St.Xavier's Girls High School, Kodaikanal	92%	1999-2000
QUALIFIED IN TNSET 2017 (STATE ELEGIBLE TEST FOR LECTURESHIP)			

Area of Specialization :

- Fuzzy Graph theory
- Domination in fuzzy Graphs
- Graph Theory and its applications

Subjedcts Handling :

- Analysis - I
- Business Mathematics for Commerce
- Business Mathematics for Commerce with computer Application
- Discrete Mathematics

Thesis Title: Domination of Fuzzy graphs and Application

Academic Credentials :

Publications:

- **Total domination number and chromatic number of a fuzzy graph**”, International Journal of Computer Applications (0975 – 8887) Volume 52– No.3, August 2012 - **Impact Factor: 3.12, H-Index : 12**
- **“Connected point set domination of fuzzy graphs”**, International Journal of Mathematics and Soft Computing, Volume-2, No-2 (2012) ,75-78. **JIFACTOR : 0.5714**
- **“Some results on point set domination of fuzzy graphs”**, Cybernetics and Information Technologies, Volume 13, No 2 2013 Print ISSN: 1311-9702; Online ISSN: 1314-4081 Bulgarian Academy Of Sciences, Sofia -2013. – Impact Factor: 0.6, **H-Index: 11**
- **“The global connected domination in fuzzy graphs”**, Paripex-Indian Journal of research, Volume 12, Issue: 12, 2013, ISSN - 2250-1991 - Impact Factor: 0.565
- **“Efficient domination number and chromatic number of a fuzzy graph”**, International Journal of Innovative Research in Science, Engineering and Technology, Vol. 3, Issue 3, March 2014, ISSN: 2319-8753. Impact Factor: 7.089
- **“Independent domination number and chromatic number of fuzzy graph”**, International Journal of Scientific and Innovative Mathematical Research, Vol 2, Issue 6, June 2014, pp : 572-578, ISSN : 2347-307X (print) & ISSN 2347-3142(online) - Impact Factor: 3.597
- **“Characterization of restrained domination and chromatic number of fuzzy graphs”**, International Journal of Mathematical Trends and Technology, Vol 11, Number2, July 2014, ISSN : 2231-5373. Impact Factor – 0.764 Impact

Publication in Proceedings:

- **“Graphs whose sum of chromatic Number and total domination equals to $2n-5$ for any $n>4$ ”**, Proceedings of the Heber International Conference on Applications of Mathematics and Statistics (HICAMS) January 5-7, 2012, Bishop Heber College, Tiruchirappalli.

Participation in Conferences

- International conference-Incofed 2008 on **Higher Education and Globalization: Prospects and Challenges**, Organized by Department of Education, held on February 23- 24, 2008 at Mother Teresa Women's University, Kodaikanal.
- UGC Sponsored National Seminar on **Topology, Fractals, Their Fuzzy Generalizations and Applications**, Organized by Postgraduate Department of Mathematics, held on October 13-14, 2011 at St.Dominic's College, Kanjirapally.
- Heber International Conference on **Applications of Mathematics and Statistics**, Organized by PG and Research Department of Mathematics, held on January 5-7, 2012 at Bishop Heber College, Tiruchirappalli. Presented a paper on "**Graphs whose sum of chromatic Number and total domination equals to $2n-5$ for any $n>4$** "
- National Conference on **Fuzzy Optimization and graph Theory with Applications**, Organized by Mepco Schlenk Engineering College, held on February 23-24, 2012 at Sivakasi.
- Two days National Seminar on **Recent Trends in Distance in Graphs** Sponsored by UGC (SERO), Hyderabad & The Management, Organized by Ayya Nadar Janaki AmmalCollege, held on March 12-13, 2012 at Sivakasi.
- UGC Sponsored National Seminar on **Empowerment of Women through Political Rights**, Organized by Centre for Women Studies, held on July 5-6,2012 at Mother Teresa Women's University, Kodaikanal. Presented paper on "**Need of dynamic Women Political Organizations towards Healthy Environment**".

- National Conference on **Violence against Women and Children-Reforms and Remedies**, Organized by Centre for Women Studies, held on March 8-9, 2013 at Mother Teresa Women's University, Kodaikanal. Presented paper on **“Need of awareness to protect each child from Child Abuse”**.
- 10th Annual Conference of ADMA and Graph Theory Day. Organized by Department of Mathematics & Basic Sciences, held on June 10-13, 2014 at Reva Institute of Technology and Management, Bangalore. Presented a paper on **“Characterization of Restrained Domination and Chromatic Number of Fuzzy graphs”**

Participation in Workshops

- **“National Workshop on Mathematical Modeling and Computational Mathematics”** Sponsored by UGC-SAP (DRS), Organized Department of Mathematics, held on February 23-28, 2009 at Gandhigram Rural University, Gandhigram.
- **“Advanced Workshop on Latex and Matlab”**. Organized by Department of Mathematics, held on December 1-3, 2011 at K.S.R.College of Arts and Science, Tiruchengode.
- **“National workshop on Decompositions of Graphs and Product Graphs”**, sponsored by CSIR, DST and NBHM, Organized by Department of Mathematics, held on June 22- 25, 2011 at Periyar University, Salem.
- **“Instructional Workshop on Hypergraphs and Matroids”**, Sponsored by UGC-SAP and NBHM, Organized by Department of Mathematics, held on March 27-31, 2012 at Annamalai University, Annamalainagar.
- **“International workshop on research methodology and curriculum development”**, sponsored by curriculum development cell, organized by Department of Mathematics, held on March 11-12, 2013 at Mother Teresa Women's University, Kodaikanal.

- Participated in the Faculty Development Program titled “Applications of Mathematics in Multidisciplinary Domains” organized by ACT Academy, Kerala and The American college, Madurai held from 1st February to 8th February 2024.

Programs Organized:

- Organized One Day Webinar on the Topic Strategies and Guidance for Competitive Examinations
- Organizing Member of Seven Days National level Online Faculty Development Program on the topic “Emerging trends in Quality Education-NAAC Perspective.
- Organizing Member of National workshop on Data Analysis in Research using SPSS.
- Delivered a motivational talk to NSS students of Mother Teresa Women’s University, Kodaikanal.