

<b>Name:</b> Dr. T. SIVAKARAN	<b>Photo</b> 			
<b>Designation:</b>	Assistant Professor			
<b>Qualification:</b>	B.Sc., M.Sc., M.Phil., Ph.D., Postdoctoral Fellow			
<b>Area of specialization:</b>	Graph Theory			
<b>Experience:</b>	<b>Industrial Experience</b>		<b>Teaching Experience</b>	
	-		<b>2 Year &amp; 9 Months</b>	
<b>Number of workshops / FDP attended:</b>	<b>Number of Workshops</b>		<b>Number of FDPs</b>	
	<b>4</b>		<b>7</b>	
<b>Publications:</b>	<b>Conference</b>		<b>Journal</b>	
	<b>National</b>	<b>International</b>	<b>National</b>	<b>International</b>
	-	-	<b>1</b>	<b>8</b>
<b>Books / Book Chapters</b>	-			
<b>Patents:</b>	<b>National</b>		<b>International</b>	
	-		-	
<b>Professional Body Membership</b>	IEEE			
<b>Staff Achievements</b>	-			

## Educational Qualifications:

Category	Name of the Degree	Specialization	Year of Passing	Name of the College	Name of the University	% of Marks / Grades obtained	Class obtained
UG	B.Sc.	Mathematics	2011	Saradha Gangadharan College	Pondicherry University	75.3	First Class
PG	M.Sc.	Mathematics	2013	Saradha Gangadharan College	Pondicherry University	87.8	Distinction
	M.Phil.	Mathematics	2015	-	Annamalai University	9.07 OGPA	Distinction
	Ph.D.	Mathematics	2019	-	Kalasalingam Academy of Research and Education	-	Awarded
	Postdoctoral Fellow	Mathematics	2023	-	Annamalai University	-	Completed (Experience: 3 Years)

### Workshops/Seminars attended:

1. Pre-Conference Workshop on Algebraic and Applied Combinatorics, National College, Tiruchirappalli, June 15-17, 2016.
2. National Workshop on Product Graphs, Periyar University, Salem, India, February 23-25, 2017.
3. National Workshop on Algebra, Analysis and Differential Equations, National Institute of Technology Tiruchirappalli, India, June 14-18, 2021.
4. Workshop on Inclusive Teaching Strategy, Department of English, Sairam Institutions, Chennai, December 21, 2023.

### FDP Attended:

1. FDP on "DATA ANALYTICS & MATHEMATICAL SOFTWARE TOOLS", Teaching Learning Centre, Ramanujan College, University of Delhi, India, 25 February - 03 March 2022.
2. FDP on "Empowering Educators: Strategies for holistic teaching and professional growth", Sri Malolan College of Arts and Science, India, December 18-22, 2023.
3. FDP on "Ethics in Engineering Practice", NPTEL-AICTE, India, (8 weeks) February - April 2024.

4. FDP on “Technical Communication for Engineers”, NPTEL-AICTE, India, (4 weeks) July -Aug 2024.
5. FDP on “Development Research Methods”, NPTEL-AICTE, India, (8 weeks) August -October 2024.
  
6. FDP on “Teaching and Learning in General Programs”, NPTEL-AICTE, India, (4 weeks) Jul -Aug 2025.
7. FDP on “PANCHAYAT ADMINISTRATION AND RURAL DEVELOPMENT SCHEMES”, SIRD, India, 19 Jun -14 Jun 2025.

#### Conference Attended:

1. Fourth India Taiwan Conference on Discrete Mathematics, IIT Madras, July 10-13, 2015.
2. International Conference on Graph Theory and its Applications, Amrita University, Coimbatore, December 16-19, 2015.
3. International Conference on Theoretical Computer Science and Discrete Mathematics (ICTCSDM 2016), Kalasalingam University, Krishnankoil, India, December 19-21, 2016.
4. International Conference on Graph Theory (ICGT-2024), Department of Mathematics, Periyar University, Salem, India, January 08-09, 2024.

#### Journal Publications:

1. P. Paulraja and T. Sivakaran, Decompositions of some regular graphs into connected unicyclic graphs and hypercubes, *Ars Combinatoria*, 151 (2020), 123–144, (**Scopus indexed journal**).
2. P. Paulraja and T. Sivakaran, Decompositions of some regular graphs into connected unicyclic graphs of order 5, *Discrete Mathematics Algorithms and Applications*, 11(4) (2019), 1950042 (34 pages), (**ESCI and Scopus indexed journal**).
3. R. S. Manikandan, P. Paulraja, and T. Sivakaran,  $p^2$ -Cycle decompositions of the tensor product of complete graphs, *Australasian Journal of Combinatorics*, 73(1) (2019), 107–131, (**ESCI and Scopus indexed journal**).
4. R. Sampathkumar and T. Sivakaran,  $4t$ -cycle decomposition of the 2-fold tensor product  $(K_m \times K_n)(2)$ , *Bulletin of the Institute of Combinatorics and its Applications*, 96 (2022), 84–106, (**Scopus indexed journal**).
5. S. Anantharaman, R. Sampathkumar, and T. Sivakaran, Rainbow mean colorings of some classes of graphs, *Indian Journal of Discrete Mathematics*, 8(2) (2022), 69–98, (**UGC care list journal**).
6. T. Sivakaran, Decompositions of the  $\lambda$ -fold complete equipartite graph into unicyclic graphs of order five, *Ars Combinatoria*, 160 (2024), 73–83, (**Scopus indexed journal**).
7. T. Sivakaran and R. Sampathkumar, On cycle decompositions of complete 3-uniform hypergraphs, *Filomat*, 39 (5) (2025), 1683–1695, (**SCIE indexed journal**).
8. T. Sivakaran and R. Sampathkumar, Loose 6-cycles decompositions of complete 3-uniform hypergraphs, *Filomat*, 39 (2025), 7465–7481, (**SCIE indexed journal**).

9. T. Sivakaran and R. Sampathkumar, R. Unnikrishnan, Packing colorings of the corona product of the path  $P_n$  and the cycle  $C_n$  with an edge  $K_2$ , Turkish World Mathematical Society Journal of Applied and Engineering Mathematics, 16, (2026), 94-108, (**Scopus indexed journal**).

Awards:

1. Dr. D.S. Kothari Postdoctoral Fellowship
2. University Fellowship

Resource Person:

1. Guest lecture on "Research Topics in Graph Theory and its Applications", celebrating Ramanujan's day on 22nd December 2023 at Saradha Gangadharan College, Puducherry.

Online Courses:

1. "Ethics in Engineering Practice", NPTEL-AICTE, India, (8 weeks) February -April 2024.
2. "Technical Communication for Engineers", NPTEL-AICTE, India, (4 weeks) July -Aug 2024.
3. "Development Research Methods", NPTEL-AICTE, India, (8 weeks) August -October 2024.
4. "Effective Engineering Teaching in Practice", NPTEL-AICTE, India, (4 weeks) Jan -Feb 2025.
5. "Teaching and Learning in General Programs", NPTEL-AICTE, India, (4 weeks) Jul -Aug 2025.
6. "Social Emotional Education: Knowledge to Practice (SEEK)", UNESCO SEEK, 28 Nov – 03 Dec 2025.