## **FACULTY PROFILE**

#### I. PERSONAL DATA

Name	K. SUNITHA
Department	Mathematics
Present Designation	Assistant Professor
Area of Specialization	Graph Theory
Residential Address	8-27C,Kottarathuvilai,
	Kulappuram-629153
	Kaliyakkavilai (via)
	Kanyakumari District
Contact Numbers	Mobile: 9486855800
	e-mail: ksunithasam@gmail.com



## RESEARCH IDENTIFICATIONS

Orchid Id: <a href="https://orcid.org/0009-0003-1485-9385">https://orcid.org/0009-0003-1485-9385</a>

Google Scholar: <a href="https://scholar.google.com/citations?user=n4jO97IAAAAJ&hl=en">https://scholar.google.com/citations?user=n4jO97IAAAAJ&hl=en</a>

Research Gate: <a href="https://www.researchgate.net/profile/Dr-Sunitha">https://www.researchgate.net/profile/Dr-Sunitha</a>

VIDVAN: <a href="https://vidwan.inflibnet.ac.in/profile/268173">https://vidwan.inflibnet.ac.in/profile/268173</a>

Research ID: <a href="https://ResearchID.co/rid94402">https://ResearchID.co/rid94402</a>

# II. PARTICULARS OF EDUCATIONAL QUALIFICATION:

Category	Name of the	Major	Year of	Name of the College		Name of the Uni	Class			
	Degree		Passing							Obtained
UG	B.Sc.	Mathematics	2000	St. Jude	e's College, T	hoothoor.	Manonmanium	Sundaranar	University,	First Class
							Tirunelveli.			
PG	M.Sc.	Mathematics	2002	Scott	Christian	College,	Manonmanium	Sundaranar	University,	First Class

				Nagercoil	Tirunelveli.	
Research	M.Phil.	Mathematics	2003	Madurai Kamaraj University,	Madurai Kamaraj University, Madurai.	First Class
				Madurai.		
Doctoral	Ph.D.	Mathematics	2018	The M. D. T. Hindu college,	Manonmanium Sundaranar University,	-
Degree				Tirunelveli.	Tirunelveli.	

## III. EMPLOYMENT DETAILS

Name of the Institution	Date of Appointment	Present Designation	Total Experience
Scott Christian College(Autonomous)	14.09.2020	Assistant Professor	14-09-2020 to Till Date

## IV. ACADEMIC EXPERIENCE

Name of the College	Whether	Designation	Joining Date	Relieving	Experience		
	Govt./Aided/S.F.			Date	Years	Months	Days
Women's Christian College, Nagercoil	S.F	Assistant	14.08.2006	11.09.2020	14	-	28
		Professor					

# V. A. RESEARCH SUPERVISION

# a) M. Phil Guidance

## **List of Candidates**

Sl.	Name	University	Register	Topic	Completed/
No			Number		presently doing
1	S. Rema Kumari	Scott Christian College(Autonomous)	2016	A Study on Spectrum of some graphs	Completed
				based on Adjacency and Laplacian	2020-2021
				Matrix	
2	K. Murphy Lenin Raj	Scott Christian College(Autonomous)	2026	A Study on Properties of Duplicate	Completed
				Graphs	2020-2021
3	M. Annie Bertil	Scott Christian College(Autonomous)	2130	Catalan Graceful Labeling of Graphs	Completed
					2021-2022
4	D. Josephine Divya	Scott Christian College(Autonomous)	22009	A Study on Monophonic Domination	Completed
	1			of Graphs	2022-2023

# b) Ph.D. Guidance

## **List of Candidates**

Sl. No	Name	Topic	University	Year	Completed/ presently doing
1.	K.VIMAL RANI	Radio Heronian and Radio Geometric Mean labeling of graphs	Manonmanium Sundaranar University, Tirunelveli.	26.09.2023	Completed
2.	R.ABISHA VIRGIN	Radio Geometric and Pell mean graceful labeling of graphs	Manonmanium Sundaranar University, Tirunelveli.	-	Submitted
3.	T.REVATHY	A study on new variants of neighborhood prime labeling of graphs	Manonmanium Sundaranar University, Tirunelveli.	-	Submitted
4.	M.SHERIBA	A study on different labelings of Tribonacci and Gaussian Tribonacci numbers	Manonmanium Sundaranar University, Tirunelveli.	-	Submitted
5.	D.JOSEPHINE DIVYA	Secure Monophonic Domination of Graphs	Manonmanium Sundaranar University, Tirunelveli.	-	presently doing
6.	A.ADLINE SHEEBA	Hop Monophonic Domination of Graphs	Manonmanium Sundaranar University, Tirunelveli.	-	presently doing

## VI. PRESENTATIONS

Sl.No	Topic	ISBN No. (if any)	Conference Name	Conference Date	Venue	Authors
1	Radio labeling of Hn,m odd and even biregular paths.	978-81- 926183-8-8	UGC Sponsored National seminar.	30/01/2015	Holy Cross College, Nagercoil.	K. Sunitha
2	Radio Mean Square Labeling of Some Cycle Related Graphs.	978-1-941505- 95-3	Ist International Conference on Colloborative Research in Mathematical Sciences – ICCRMS' 17.	23/09/2017	KG College of Arts and Science, Coimbatore.	K. Sunitha
3	Radio Heronian Mean Labeling of Some Graphs	978-93-5566- 257-6	A Conference Proceedings of Recent Trends in Modern Mathematics	23 <sup>nd</sup> & 24 <sup>rd</sup> Sep 2021	St. John's College, Palayamkottai	Dr. K. Sunitha & K. Vimal Rani

			(Volume 1)			
4	Tribonacci Graceful Labeling of Some Tree Related Graphs	978-81- 951315-2-5	International E-Conference on Modern Mathematical Methods and High Performance Computing in Science and Technology	2 <sup>nd</sup> and 3 <sup>rd</sup> September 2021	Sri. Sarada College for Women(Autonomous), Tirunelveli	Dr. K. Sunitha & K. Sheriba
5	Vertex Edge Closed Neighborhood Prime Labeling of Some Cycle Related Graphs	978-81- 951315-2-5	International E-Conference on Modern Mathematical Methods and High Performance Computing in Science and Technology	2 <sup>nd</sup> and 3 <sup>rd</sup> September 2021	Sri. Sarada College for Women(Autonomous), Tirunelveli	Dr. K. Sunitha & R. Revathy
6	Radio Heronian Mean Labeling of Some m-Fold Families of Graphs	978-93-91077- 53-2	Pre-Conference Proceedings of the International Conference on Discrete Mathematics (ICDM2021- MSU)	13 <sup>th</sup> and 14 <sup>th</sup> October 2021	Department of Mathematics, Manonmaniam Sundaranar University Tirunelveli.	Dr. K. Sunitha & K. Vimal Rani
7	Radio Heronian Mean Graceful labelling of Graphs	978-81- 948552-9-3	International Virtual Conference On Current Scenario in Modern Mathematics	4 <sup>th</sup> February 2022	PG and Research Department of Mathematics, Adithanar College of Arts and Science, Tiruchendur	Dr. K. Sunitha & K. Vimal Rani
8	Radio Heronian Mean k- Graceful Labelling on Degree Splitting of Graphs	978-93-5680- 181-3	Proceedings of  "International Conference on Recent Trends in Mathematics and its Applications"	28 <sup>th</sup> and 29 <sup>th</sup> July 2022	Department of Mathematics, St. Jude's College, Thoothoor	Dr. K. Sunitha & K. Vimal Rani
9	Radio Geometric Mean Graceful Labeling of Graphs	978-81- 948552-9-3	International Virtual Conference on Current Scenario in Modern Mathematics	04/02/2022	PG and Research Department of Mathematics, Adithanar College of Arts and Science, Tiruchendur	Dr. K. Sunitha & R. Abisha Virgin
10	Radial Radio Geometric Mean Graceful Labeling of Graphs	978-93-93737- 97-7	International Conference on Advances and Applications in Mathematical Sciences	20/04/2022	Department of Mathematics, Government Arts and Science College, Nagercoil	Dr. K. Sunitha & R. Abisha Virgin

11	Catalan Graceful Labeling of Some Star Related Graphs	978-93-93737- 97-7	International Conference on Advances and Applications in Mathematical Sciences	20/04/2022	Department of Mathematics, Government Arts and Science College, Nagercoil	Dr. K. Sunitha & M. Annie Bertil (M. Phil Scholar)
12	Triangular Prime and Neighborhood Prime labeling of graphs	978-93-5680- 181-3	International Conference on Recent Trends in Mathematics and It's Applications (ICRTMA 2022)	28 and 29 July 2022	Department of Mathematics, St. Jude's College, Thoothoor	Dr. K. Sunitha & R. Revathy
13	Tribonacci cordial Labeling of Some Tree Related Graphs	978-93-91563- 72-1	International Conference on Recent Innovations in Applications of Mathematics	26/07/2023	Department of Mathematics, Rani Anna Government College for Women, Tirunelveli.	Dr. K. Sunitha & K. Sheriba
14.	Secure Monophonic Domination number of Graphs and its Complement	978-93-340- 5234-3	International Conference on Applications of Mathematics in Data Science	27 <sup>th</sup> and 28 <sup>th</sup> February 2024	Department of Data Science and Mathematics, St.Xavier's College (Autonomous), Palayamkottai	Dr. K. Sunitha & D. Josephine Divya
15	Total Secure Monophonic Domination number of Graphs	978-81- 965561-9-8	Mega International Conference on Wellness: An Educational Edification(WEE 2024)	4 <sup>th</sup> and 5 <sup>th</sup> April 2024	Manonmaniam Sundaranar University Tirunelveli.	Dr. K. Sunitha & D. Josephine Divya

# VII. PUBLICATIONS

Sl. No	Journal Name	Topic	Volum e No	Month & Year	Impact factor	ISSN No.	Page No.	UGC Care Number
1	International Journal of Mathematical Archive.	Radio Labeling for Barycentric Subdivision of Paths and Incentric Subdivision of Spokewheel graphs.	6(6)		-	2229-5046	187-196	

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2	International Journal of Mathematical Archive.	E and V-Magic Strength of H-Multiple Labeling of graphs.	6(12)			2229-5046	47-56	
3	International Journal of Mathematics Trends and Technology.	Radio Mean Square Labeling of Some Graphs.	38(2)		-	2231-5373	100 - 105	
4	International Journal of Mathematical Archive.	Radio Mean Labeling of Double Triangular Snake Graph and Quadrilateral Snake Graph.	8(8)		-	2229-5046	80 - 84	
5	International Journal of Mathematical Archive.	Radio odd mean and even mean labeling of some graphs.	8(11)		-	2229-5046	109 - 115	
6	Global Journal of Mathematical Sciences(GJMS): Theory and Practical.	Radio mean labeling of Path and Cycle related graphs.	9(3)		-	0974 - 3200	337-345	
7	IOSR Journal of Mathematics (IOSR-JM).	Radio labeling of Hurdle graph and Biregular rooted trees.	13(5)		-	2278- 57289 (e) 2319- 765X (p)	37-44	
8	Malaya Journal of Mathematik	Radio Heronian Mean Labeling of Some Corona Related Graphs	09	January 2021	4.5	2321-5666	1212- 1215	Group I
9	Advances and Applications in Mathematical Sciences	Radio Heronian Mean Graceful Labeling on Degree Splitting of Graphs	21	Septemb er 2022	-	0974-6803	6319- 6337	Group I
10	Stochastic Modeling and Application	Radial Radio Heronian Mean Graceful Labeling of Graphs	26	June 2022	-	0972-3641	447-456	Group I
11	Ratio Mathematica	Radio Heronian Mean k-Graceful Labeling on Degree Splitting of Graphs	45	January 2023	0.46	1592-7415	32-44	Group I
12	Advances and Applications in Mathematical Sciences	Vertex Edge Closed Neighborhood Prime labeling of some m-fold snake related graphs	Volum e 21	Septemb er 2022	-	0974-6803	6159- 6165	Group I
13	Ratio Mathematica	Gaussian Tribonacci r-Graceful Labeling of Some Tree Related Graphs	44	Nov- 2022	0.46	1592-7415	188-196	Group I
14	Advances and Applications in Mathematical Sciences	Tribonacci r-Graceful Labeling of Some Tree Related Graphs	21	Oct- 2022	-	0974-6803	6711- 6710	Group I

15	Neuroquantology	Radial Radio Geometric Mean Graceful Labeling of Graphs	20	Decembe r 2022	1303-5150	3367- 3372	-
16	Annals of Pure and Applied	Radio Labeling of Double Triangular	27(2)	June -	2279-0888	63-71	-
	Mathematics	Snake Graphs		2023		03-71	
17	European Chemical	Radio Pell Labeling of Graphs	12(8)	2023	6188-6197		
	Bulletin						
18.	European Chemical	Tribonacci Graceful Decomposition of	11(03)	2022	6188-6197	512-517	
	Bulletin	Diamond Related Graphs				312-317	
19.	Stochastic Modeling and	Neighborhood and Closed Neighborhood	3(1)	June	2752-3829	1.6	
	Computational Sciences	Prime labeling of decomposed graphs		2023		1-6	
20.	European Chemical	Neighborhood Prime decomposition of	11(03)	2022	2063-5346	484-488	
	Bulletin	graphs					
21.	Nonlinear Analysis and	Gaussian Neighborhood Prime	15(2)	2024	1906-9685		
	Optimization: Theory &	decomposition of graphs				1-8	
	Applications.						

## VIII. MEMBERSHIP IN ACADEMIC BODIES

Sl. No.	Name of the forum	Acted as	Duration
1.	Sridharacharya Academy of Mathematical Sciences	Life Membership of the Academy	w.e.f 20.10.2024 onwards

## IX. ACTED AS EDITOR/REFEREE IN JOURNALS

Sl. No.	Name of the Journal	Editor/referee	International/ National/Regional
	Mathematics and Computer		
1.	Science: Contemporary	Referee	International
	Development		

## X. SEMINARS/ CONFERENCES / WORKSHOPS ATTENDED

Sl.	Saminar/Conformac/Workshop Nama	Doto	Vanua
No	Seminar/Conference/Workshop Name	Date	Venue

1	State level seminar on Environmental degradation.	August 29, 2013	Women's Christian College, Nagercoil.
2	State level seminar on Career guidance on fashion design.	08/08/2013	Women's Christian College, Nagercoil.
3	University level seminar on functional Analysis.	March 19, 2008	Lekshipuram College, Neyyoor.
4	International Conference of the research forum.	July 15 & 16, 2009	Women's Christian College, Nagercoil.
5	Regional Seminar on Algebraic graph theory and History of Mathematics.	March 12, 2009	Nesamony Memorial Christian College, Marthandam.
6	State level seminar on Fuzzy system and application.	March 20, 2009	Women's Christian College, Nagercoil.
7	Workshop	08/10/2011	Women's Christian College, Nagercoil.
8	National level seminar on graph theory and its application.	August 13 & 14, 2014	Annai Velankanni College, Tholayavattam.
9	UGC Sponsored National seminar on Emerging Trends in Graph theory.	30.01.2015	Holycross College, Nagercoil.
10	UGC, DST&CSIR Sponsored national conference on Discrete mathematics and its Applications.	15 /07/2015 to 17/07/2015	Manonmaniam Sundaranar University, Tirunelveli.
11	National seminar on Recent avenues in science.	August 27, 2015	Women's Christian College, Nagercoil.
12	State level seminar on A few great mathematicians and their contribution.	19/03/2015	Women's Christian College, Nagercoil.
13	UGC Sponsored National seminar on Recent Trends in Analysis and Graph theory.	January 22 & 23, 2015	St. Jude's College, Thoothoor.
14	National Seminar on Graph theory and its applications.	September16, 2015	Sri Sarada college for women, Tirunelveli.
15	National seminar on Graph theory versus other fields: concepts wise.	December 4, 2015	Women's Christian College, Nagercoil.
16	National Seminar on Analysis and Discrete Mathematics.	15/03/2016	Holycross College, Nagercoil.
17	National Seminar on Applied Mathematics.	03/10/2016	Malankara Catholic College, Mariagiri.
18	Professor S. Arumugam Endowment One Day Seminar on Graph Theory.	22/12/2016	Manonmaniam Sundaranar University, Tirunelveli.
19	State level seminar on Mathematical Concepts.	27/02/2017	Women's Christian College, Nagercoil.
20	Ist International Conference on Colloborative Research in Mathematical Sciences – ICCRMS' 17.	23/09/2017	KG College of Arts and Science, Coimbatore.
21	National Seminar on Graph theory.	23/10/2017	Holycross College, Nagercoil.
22	State Level Seminar on Algebraic Graph Theory	20/03/2018	Women's Christian College, Nagercoil.
23	State Level Workshop on Scientific Writing for Research Publications.	21/02/2019	Women's Christian College, Nagercoil.
24	National seminar on Recent Trends in Mathematics	09/08/2019	Malankara Catholic College, Mariagiri.
25	National seminar on Recent Applications in Graph theory and Analysis.	08/01/2020	Pioneer Kumaraswamy College, Nagercoil

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26	National Workshop on Societal Responsibility for Rural Development: Role of Science Teachers	06.02.2020 to 07.02.2020	Manonmaniam Sundaranar University, Tirunelveli.
27	One day Orientation Programme for Newly Appointed Teachers	20.02.2021	Scott Christian College(Autonomous),Nagercoil
28	The Practical Session on Evaluation of Outcome Attainment	22.03.2021	Scott Christian College(Autonomous),Nagercoil
29	Seminar on Abstract Mathematics	03.03.2021	Scott Christian College(Autonomous),Nagercoil
30	One day workshop on Bloom's Taxonomy Based Question Paper Design for Outcome Based Education in Mathematics	27.09.2021	Ayya Nadar Janaki Ammal College(Autonomous), Sivakasi
31	One Week Faculty Development Program on Online Academic Events and Examination Management	10.02.2022 to 16.02.2022	Vidyasagar University, Midnapore, West Bengal
32	International Conference on Advances and Applications in Mathematical Sciences	20.04.2022	Government Arts and Science College, Nagercoil
33	The 2-weeks International Faculty/Knowledge Development Programme on Accreditation Awareness, Planning and Execution (APEX)	April 16,2022 - April 22,2022	Holy Cross College, Agartala
34	Organized One Day National Seminar on Abstract and Applied Mathematics(AAM-2022)	10 .05.2022	Scott Christian College(Autonomous),Nagercoil
35	International Conference on Applied Mathematics(ICAM-2022)(Blended Mode)	08.06.2022 to 09.06.2022	Vidyasagar University, Midnapore, West Bengal
36	TAMIL NADU STATE COUNCIL FOR HIGHER EDUCATION Organized One day workshop on Nuances on Documentation Process: Research Proposal, NAAC & NIRF	13.08.2022	Madurai Kamaraj University, Madurai
37	Faculty Orientation programme	19.07.2022	Scott Christian College(Autonomous),Nagercoil
38	National Seminar on ALGEBRA and ANALYSIS	19.01.2023	Scott Christian College(Autonomous),Nagercoil
39	Organized One Day RESEARCH MEET 2023	20.03.2023	Scott Christian College(Autonomous), Nagercoil

40	International Conference on Advances in	05.05.2023 to	Scott Christian College(Autonomous),
40	Mathematics & Computer Science 2023	06.05.2023	Nagercoil
4.1	Online FDP organized by AIACHE in	10/10/2023 to	
41	association with MCC Research Colloquium	14/10/2023	
42	International Conference on Applied	27-28 June 2024	Vidyasagar University, Midnapore,
42	Mathematics (ICAM-2024)		West Bengal

## XI. RESEARCH RELATED ACTIVITIES

Sl. No	Assignment	Candidate	College / University
1	Doctoral Committee Member	A. Ajin Deepa	Rani Anna government College for Women, Tirunelveli
2	Doctoral Committee Member	J. Jeba Lisa	Rani Anna government College for Women, Tirunelveli
3	Doctoral Committee Member	W. Jebi	Rani Anna government College for Women, Tirunelveli
4	Doctoral Committee Member	E. V. Ajoba	S. T. Hindu College, Nagercoil
5	Doctoral Committee Member	R. Beautilin	Nesamony Memorial Christian College, Marthandam
6	Doctoral Committee Member	S. Shirly Jasmin	Scott Christian College(Autonomous), Nagercoil

## XII. CONFIDENTIAL WORKS ASSIGNED

Sl. No	Assignment	Organization / University	Year
1.	Question Paper Setter (B. Sc Mathematics)	Virudhunagar Hindu Nadars Senthikumara Nadar College(Autonomous), Virudhunagar	2016
2	Question Paper Setter (M. Sc Mathematics)	Virudhunagar Hindu Nadars Senthikumara Nadar College(Autonomous), Virudhunagar	2018
3	Question Paper Setter (M. Sc Mathematics)	Virudhunagar Hindu Nadars Senthikumara Nadar College(Autonomous), Virudhunagar	2019
4	Question Paper Setter (M. Sc Mathematics)	Ayya Nadar Janaki Ammal College(Autonomous), Sivakasi	2022

5.	Question Paper Setter (B. Sc &	Thiagarajar College(Autonomous), Madurai	2024
	M.Sc Mathematics)		

## XIII. BOARD OF STUDIES / EXAMINATION

	<b></b>		Perio	d
Sl. No	Position	Name of the Board	From	То
1.	Additional Examiner (Valuation)	UG (Allied and Major) Mathematics, Personality		
		Development, EVS, Social Value Education	2009	2021
		(M.S. University)		
2.	Additional Examiner(Valuation)	PG & M.Phil. Board, Scott Christian	2015	2020
		College(Autonomous), Nagercoil	2015	2020
3.	Invigilator	Nesamony Memorial Christian College, Marthandam	2006	2015
4.	External Examiner(Valuation)	UG & PG Major Board, Holy Cross	23.06.2022	24.06.2022
		college(Autonomous), Nagercoil		
5.	Additional Examiner(Valuation)	SVE UG Skill Board, Scott Christian	27.06.2022	
		college(Autonomous), Nagercoil	27.00.2022	_
6.	Additional Examiner(Valuation)	UG Major Board, Manonmaniam Sundaranar	20.07.2022	03.08.2022
		University, Tirunelveli.	29.07.2022	03.06.2022
7.	UG Project VIVA VOCE	Holy Cross college(Autonomous), Nagercoil	18.11.2022	
	Examiner		18.11.2022	-
8.	External Examiner(Valuation)	UG & PG Major Board, Holy Cross	09.12.2022	10.12.2022
		college(Autonomous), Nagercoil	09.12.2022	10.12.2022
9.	External Examiner(Valuation)	PG Major Board, Ayya Nadar Janaki Ammal	12.12.2022	-

		College(Autonomous), Sivakasi		
10.	Additional Examiner(Valuation)	UG Major Board, Manonmaniam Sundaranar	09.02.2023	
		University, Tirunelveli.	13.02.2023	11.02.2023
			& 14.02.2023	11.02.2023
11.	External Examiner(Valuation)	PG Major Board, Ayya Nadar Janaki Ammal College(Autonomous), Sivakasi	11.05.2023	-
12.	Board of Studies Meeting(Participated)	Scott Christian College(Autonomous), Nagercoil	27.07.2022	-
13.	PG Project VIVA VOCE Examiner	Ayya Nadar Janaki Ammal College(Autonomous), Sivakasi	15.11.2023	16.11.2023

## XIV. OTHER ACADEMIC INFORMATION:

Sl. No	Course	Organizing Body	Durations
1.	NPTEL Online Certification	MoE, Govt. of India	July2022 - October 2022
2.	NPTEL Online Certification	MoE, Govt. of India	January2023-April 2023

3.	Teaching Learning Centre, Ramanujan College, University of Delhi	Teaching Learning Centre, Ramanujan College, University of Delhi, Ministry of Education, Government of India	22March 2023-20 April 2023
4.	Faculty Induction/Orientation Programme	UGC-HRDC, University of Kerala, Kariavattom	25.07.2023 To 23.08.2023
5.	Refresher Course	Ministry of Education Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching	30/11/2023 to 14/12/2023
6.	Refresher Course	UGC- MMTTC, University of Delhi	27.08.2024 to 09.09.2024