

RESUME



Name: Dr.Y.ThereseSunithaMary

Designation:Head & AssistantProfessor (Selection Grade)

Department: Mathematics

Address: St. Xavier's College (Autonomous), Palayamkottai -627002.

PERSONAL DETAILS

Date of Birth : 22.05.1976

Qualification : M.Sc,M.Phil.,Ph.D.

Designation : AssistantProfessor (Selection Grade) & Head

Department : Mathematics

Community : BC

Religion : Christion

Nationality : Indian

Mobile : 9865225238

Email ID : drytheresesunithamary@stxavierstn.edu.in

ACADEMIC QUALIFICATIONS

Degree	Specialization	College	University	Year of Passing
B.Sc	Mathematics	AnnaiVelankanni College, Tholayavattam	MS University, Tirunelveli	1996
M.Sc	Mathematics	St.Xavier'sCollege,Palayamkottai	MS University, Tirunelveli	1998
M.Phil	Mathematics	St.Xavier'sCollege,Palayamkottai	MS University, Tirunelveli.	1999
Ph.D	Mathematics	ManonmaniamSundaranar University, Tirunelveli	MS University, Tirunelveli	2010
ACADEMIC IDENTITY				
*VIDWAN ID	347306			
*ORCID ID	0000-0002-5182-9631			
*SCOPUS ID	57219351760			
*RESEARCHER ID/ PUBLONS ID	rid112929			
GOOGLE SCHOLAR LINK	https://scholar.google.com/citations?user=COcgmq0AAAAJ&hl=en			

TEACHING EXPERIENCE	
Date of Appointment	20.06.2013
Date of Retirement	31.05.2036
Teaching Experience	UG -25 Years
	PG -25 Years
	M.Phil. – 9 years
Research	Guided - M Phil: 9; Guided - Ph D: 2; Guiding - Ph D Scholars: 4

COURSES/CLASSES TAUGHT	NAME OF THE	DURATION	
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	INSTITUTIONS	From	To	Years
B.E/B.Tech : (Engineering Mathematics I, II,III Probability and Statistics Probability and Random Processes Probability and and Queuing theory Discrete Mathematics Numerical methods M.E Engineering: Computational Methods Probability and Statistical methods)	PET Engineering College, Vallioor	02.08.2000	19.06.2000	13 + years
B.Sc. (Mathematics): (Differential & Integral Calculus Sequences and Series Differential Equations, Laplace Transforms and Fourier Series Mathematical Statistics – I, II Graph Theory Mechanics Numerical Methods M.Sc. (Mathematics): Real Analysis - II Partial Differential Equations Calculus of Variations and Integral Equations Graph Theory and Applications Combinatorics Mechanics Statistics)	St.Xavier's College, Palayamkottai	20.06.2013		12 years

AWARDS RECEIVED

1.	Best Outgoing P.G. Student Award (1998) from St. Xavier's College, Palayamkottai
2.	
3.	
4.	
5.	

ADMINISTRATIVE EXPERIENCE

S. No	DESIGNATION	INSTITUTIONS	YEAR
1	Member of STAND	St.Xavier's College, Palayamkottai	2014-2015
2	Member of STAND	St.Xavier's College, Palayamkottai	2016-2017

4	Member of STAND	St.Xavier's College, Palayamkottai	2020-2021
4	Member of STAND	St.Xavier's College, Palayamkottai	2021-2022

MEMBERSHIP

S. No	Designation	Particulars
1.		
2.		
3.		
4.		
5.		

ORIENTATION / REFRESHER COURSES / FACULTY DEVELOPMENT PROGRAMME UNDERGONE ()

S. No	Name of the Training	Name of the Sponsoring Agency	Place and Date
1	Orientation Programme	MHRD-PMMMNMTT	04.06.2020 to 01.07.2020
2	Refresher Course - Managing Online Classes & Co-creating MOOCS 3.0	MHRD-PMMMNMTT	25.07.2020 to 10.08.2020
3	Refresher Course - Managing Online Classes & Co-creating MOOCS 3.0	MHRD-PMMMNMTT	16.03.2021 to 30.03.2021
4	Refresher Course - ADVANCED RESEARCH METHODOLOGY	Ramanujan College, Delhi	21.07.2023 to 04.07.2023
5	Workshop on Research Publications in Scopus Indexed Journals	St, Xavier's College (Autonomous), Palayamkottai	25.08.2023
6	Faculty Development Programme	Nesamony Memorial Christian College	16.12.24 -20.12.24
7	Faculty Development Programme	V.O.C. College, Thoothukudi	19.08.2024-24.08.2024
8	Faculty Development Programme	St. Mary's College (Autonomous), Thrissur, Kerala	17 October 2024 to 24 October 2024
9	Refresher Course	SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI	13.05.2025 –26.05.2025
10	Faculty Development	KURUKSHETRA	04-06-2025 to 10-06-2025

	Programme	UNIVERSITY KURUKSHETRA	
11	Short term program-ICT Enabled Learning	Kumaun University, Nainital	09/07/2025 - 15/07/2025
12	Faculty Development Programme	Arul Anandar College (Autonomous),, Madurai	02.06.2025 to 06.06.2025
13	One Week Online Faculty Development Programme on Data Visualization Research Insights and Future Directions	Dr. SIVANTHI ADITANAR COLLEGE OF ENGINEERING TIRUCHENDUR	21/07/2025 to 25/07/2025

ORIENTATION / REFRESHER COURSES / FACULTY DEVELOPMENT PROGRAMME UNDERGONE ()

S. No	Name of the Training	Name of the Sponsoring Agency	Place and Date
1	Orientation Programme for Teachers	IQAC, St, Xavier's College (Autonomous), Palayamkottai.	15.07.2022 and 16.07.2022
2	SXC-Centenary-Faculty Empowerment Programme	IQAC, St, Xavier's College (Autonomous), Palayamkottai.	23.07.2022
3	Orientation Programme for Teachers	IQAC, St, Xavier's College (Autonomous), Palayamkottai	16.06.2023 and 17.06.2023
4	Faculty Development Programme	St.Xavier's College, Palayamkottai	29.05.2024
5	Faculty Development Programme	St.Xavier's College, Palayamkottai	15.06.2024

DETAILS OF RESEARCH WORK

Research Stages	Title of the Thesis	University where the work was carried out
	A Study On Certain Domination Parameters	ManonmaniamSundaranar University, Tirunelveli

AREAS OF RESEARCH

Graph Theory

RESEARCH PROJECTS CARRIED OUT			
S. No	Title of the Project (Minor)	Name of the Funding Agency & Amount	Duration

PUBLICATIONS				
BOOKS	BOOK CHAPTERS	SCOPUS	WEB OF SCIENCE	UGC LISTED
OTHER INDEXED	AS A RESOURCE PERSON	PAPERS PRESENTED IN NATIONAL AND INTERNATIONAL SEMINARS	WEBINARS, SEMINARS, WORKSHOPS ATTENDED	

PUBLICATIONS: BOOKS ()			
S. No	Title of the Book	Publication	Year

BOOK CHAPTERS ()			
S. No	Title of the Paper	Name of the Book	ISSN No., Pg.No
1	Changing Independent domination in graphs	Proceedings of the third national conference on Mathematical and computational models, PSG college of Technology, Coimbatore.	

		15-16December2005	
2	The nonsplit domination number of a graph	Proceedings of the fourth national conference on Mathematical and computational models, PSG College of Technology, Coimbatore, pp218-224, December 2007.	
3	A Note on Nonsplit Bondage Number of Graph	National Conference on Recent Trends in Graphs(NCRTG-2K20)	978-81-942482-5-5
4	The Nonsplit Bondage Number of Subdivision Graph	Graph National Seminar on Recent Trends in Pure and Applied Mathematics	978-81-907459-7-6
5	NEW PARAMETERS ON UNIFORM DOMINATION	Proceedings of International Conference at NIRMALA COLLEGE FOR WOMEN (AUTONOMOUS), Coimbatore	ISBN: 978-81-969743-3-6
6	Split Domination Integrity of Generalized Transformation Graphs	Proceedings of National Conference at Sri Bharathi Arts and Science college for women, Trichy. 08th & 09-Feb, 2024.	978-81-969971-6-8
7	Inverse Split Domination Integrity of Generalized Transformation Graphs	Proceedings of International Conference at AIMAN College of Arts and Science for Women, Trichy. 23-Feb-2024	
8	Inverse Split Bondage Number of Certain classes of Graphs	Proceedings of International Conference at Jaypee Institute of Information Technology, Noida, INDIA. 29-Feb-March 02,2024 AIJR Publisher, P No 26.	978-81-965621-7-5
9	Domination Integrity of Generalized Transformation Graphs	Proceedings of International Conference at Jaypee Institute of Information Technology, Noida, INDIA. 29-Feb-March 02,2024 AIJR Publisher,	978-81-965621-7-5

		P No 26.	
10	A Note on Detour Domination Number of Complement of Generalized Hypercube Networks	Proceedings of National Conference on Innovations in Discrete Mathematics (NCIDM-24)	ISBN: 978-93-94725-17-1
11	NONSPLIT DOMINATION AND PITCHFORK NONSPLIT DOMINATION OF GRAPHS	Proceedings of International Conference Proceedings on MODELLING STRATEGIES IN MATHEMATICS – 2025	ISBN:978-81-985672-0-8

PUBLICATIONS: SCOPUS INDEXED JOURNALS () WEB OF SCIENCE ()			
S. No	Title of the Paper	Name of the Journal	ISSN No., Volume, Issue, Impact factor & Pg. No
1	Nonsplitdominationnumberof a graph	InternationalJournal of Computational and AppliedMathematics	ISSN1819–4966Vol.9,Number1(2014),pp.51 – 61
2	Nonsplit domsaturationnumber of a graph	IOSRJournal ofMathematics(IOS R – JM)	e-ISSN:2278 – 5728, p-2319 – 765X, Vol. 10, Issue 3Ver. IV (May – Jun. 2014),PP.77–81
3	A Note on Nonsplit dominationnumber of a graph, <i>IOSR Journal of Mathematics (IOSR-JM)</i>	IOSRJournal ofMathematics(IOS R – JM)	<i>e ISSN:2278-5728, p-ISSN: 2319-765X. Volume 13, Issue I Ver. VI (Jan. - Feb.2017),PP16-20</i>
4	Unchanging IndependentDomination in Graphs	InternationalJournal of Computational andApplied Mathematics	0973-0176, Volume 11, Number 1 (2018),pp.1-6
5	The Nonsplit bondage number of middle Graph	AIP Conference Proceedings	0094-243X 1551-7616
6	The Nonsplit bondage number of central Graph	Malaya Journal of Matematik	2319-3786 2321-5666
7	The Nonsplit Bondage Number of Graphs	International Journal of Computer Sciences and Engineering	2347-2693
8	The Strong Nonsplit domination polynomial of	Discrete Mathematics, Algorithms and	1793-8309, Vol.12,No. 04, 0.796

	some graphs	Applications	
9	Strong Nonsplit Dominating Sets and Strong Nonsplit Domination Polynomial of Complement of Paths	Discrete Mathematics, Algorithms and Applications	1793-8309, Vol. 12, No. 6, 0.796
10	The Inverse strong nonsplit domination in Graphs	Discrete Mathematics, Algorithms and Applications	1793-8309, Vol. 13, No. 6, 0.796
11	The Nonsplit domination in subdivision graphs	PROYECCIONES Journal of Mathematics	ISSN 0717- 6279(Online), Vol.39, n-5(2020) pp: 1113-1120, Feb 2020
12	Strong Nonsplit Domsaturation number of a Graph	Discrete Mathematics, Algorithms and Applications	Vol. 16, No. 7 (2024) 2350089
13	Split domsaturation and some new parameters	Proyecciones	Vol 43 , Issue no. 6, page 1361-1372
14	Inverse Italian domination number of subdivision super subdivision of graphs	Indian Journal of Natural Sciences	Vol 15 Issue 87 Year 2024
15	Strong Nonsplit domination number of jump graph of cycles	Journal of Technology	Vol 12 Issue 6, 2024
16	Inverse outer connected domination number of jump graph	Ijeast journal	Accepted
17	Roman detour domination number of generalized hypercube networks	Discrete Mathematics, Algorithms and Applications	Vol. 17, No. 1(2025) 2450015 (12 pages)
18	A Note on Detour Domination Number and its Application in Generalized Hypercube Network Models	Indian Journal of Natural Sciences	Vol.15, issue 87, Dec 2024
19	Detour Domination Number of Generalized Mesh Networks	Discrete Mathematics, Algorithms and Applications	Accepted on 12.02.2025
20	Inverse Nonsplit Domination in Certain Interconnection Network Models	Journal of Computational Analysis and Applications	VOL.33, NO.8, 2024

PUBLICATIONS: UGC LISTED JOURNALS (2)			
S. No	Title of the Paper	Name of the Journal	ISSN No., Volume, Issue, Impact factor & Pg. No
1	Pendant Strong Nonsplit domination Polynomial of some Graphs	Kala Sarovar	0975-4520, vol. 23, no. 2, 2020, pp.248-255.
2	Strong Nonsplit Domination Polynomial of Complement of Cycles	Kala Sarovar	0975-4520, vol. 24, no. 03, 2020, pp. 184-189.

PUBLICATIONS: OTHER INDEXED JOURNALS ()			
S. No	Title of the Paper	Name of the Journal	ISSN No., Volume, Issue, Impact factor & Pg.No
1	Nonsplit domination number of a graph	International Journal of Computational and Applied Mathematics	ISSN 1819-4966 Vol.9, Number 1 (2014), pp. 51-61
2	Nonsplit domination saturation number of a graph	IOSR Journal of Mathematics (IOSR - JM)	e-ISSN: 2278 - 5728, p-2319 - 765X, Vol. 10, Issue 3 Ver. IV (May - Jun. 2014), PP.77-81
3	A Note on Nonsplit domination number of a graph	IOSR Journal of Mathematics (IOSR-JM)	e ISSN: 2278-5728, p-ISSN: 2319-765X. Volume 13, Issue I Ver. VI (Jan. - Feb. 2017), PP.16-20
4	Unchanging Independent Domination in Graphs	International Journal of Computational and Applied Mathematics	ISSN 0973-0176, Volume 1, Number 1 (2018), pp.1-6
5	The nonsplit domination number of a graph	Proceedings of the fourth national conference on Mathematical and computational models, PSG College of Technology, Coimbatore	Pp 218-224, December 2007
6	Changing Independent domination in graphs	Proceedings of the third national conference on Mathematical and computational models, PSG College of Technology, Coimbatore	15-16 December 2005
7	A Note on Nonsplit Bondage number of Graphs	National conference on recent trends in Graphs (N CRTG2K20)	Feb 5, 2020
8	The Nonsplit Bondage number of Subdivision	Proceedings of the National Seminar On	09 - 10 March 2020

	Graph	Recent Trends in Pure and Applied Mathematics, Rani Anna Government College for Women, Tirunelveli	
9	The Nonsplit Bondage number of middle Graph	AIP Conference Proceedings 2261030029 (2020)	05 October 2020
10	The Strong Nonsplit domination Polynomial of Certain graphs	Proceedings of the INTERNATIONAL CONFERENCE ON RESEARCH TRENDS IN MATHEMATICS – 2020 (ICRTM-2020)	August 25-26, 2020

AS A RESOURCE PERSON (26)

S. No	Name of the Event	Name of the Sponsoring Agency	Place and Date
1	Co-Ordinator, NATIONAL MATHEMATICS DAY CELEBRATION	TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY	ST. XAVIER'S COLLEGE (AUTONOMOUS), PALAYAMKOTTAI

WEBMINARS/SEMINARS/ CONFERENCES / SYMPOSIA / WORKSHOP

PAPER PRESENTED: National (3) International ()

S. No	Name of the Event	Name of the Sponsoring Agency	Place and Date
1	Third National conference on Mathematical and computational models	PSG College of Technology, Coimbatore	December 2005
2	Fourth National conference on Mathematical and computational models	PSG College of Technology, Coimbatore	December 2007
3	Online International Conference On Continuity, Consistency And Innovation In Applied Sciences And Humanities	St. Martin's Engineering College (Autonomous), Secunderabad	13.08.2020 and 14.08.2020
4	International Conference on modeling Strategies in Mathematics	Nirmala College for Women (Autonomous), Coimbatore	22.10.2024-23.10.2024
5	International Conference on Research trends in Data Science	St. Xavier's College (Autonomous), Palayamkottai	25.10.2024-26.10.2025
6	National Conference on	Nazareth Margoschis College,	04.10.2024

	Innovations in Discrete Mathematics	Pillaiyanmanai	
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WEBMINARS/SEMINARS/ CONFERENCES / SYMPOSIA / WORKSHOP ATTENDED:			
S. No	Name of the Event	Name of the Sponsoring Agency	Place and Date
1	National Conference on “Recent Advances in Pure and Applied Mathematics	St.Xavier’s College, Palayamkottai	7.03.2014
2	Basics of DNA, RNA and Protein	St.Xavier’s College, Palayamkottai	18.03.2014
3	Analysis of DNA, RNA and Protein sequences using Mathematics.	St.Xavier’s College, Palayamkottai	19.03.2014
4	National Conference On Recent Advances in Pure and Applied Mathematics.	St.Xavier’s College, Palayamkottai	3.9.2014 to 5.9.2014
5	International seminar on “New Dimensions on Mathematical Biology”	St.Xavier’s College, Palayamkottai	18.12.2015
6	National seminar on “Mathematical Analysis and Graph theory”	St.Xavier’s College, Palayamkottai	10.03.2016 to 12.03.2016
7	National Conference on Recent Advances in Fuzzy Mathematics and Applications	St.Xavier’s College, Palayamkottai	9.2.2017 to 10.2.2017
8	National conference on Algebra and Graph theory	St.Xavier’s College, Palayamkottai	15.02.2018 to 16.02. 2018
9	National seminar on Recent Developments in Mathematics	St.Xavier’s College, Palayamkottai	11.03.2019
10	National Workshop On FUNCTIONAL ANALYSIS AND ITS APPLICATION	St. Xavier’s College (Autonomous), Palayamkottai.	13.02.2020 to 14.02.2020
11	International Web Conference On PURE AND APPLIED MATHEMATICS	St. Xavier’s College (Autonomous), Palayamkottai.	23.06.2020 to 24.06.2020
12	International Webinar On RECENT TRENDS AND APPLIED MATHEMATICS	Patrician College of Arts and Science, Chennai	24.06.2020 to 26.06.2020
13	<i>National Webinar On MODELLING AND SOLVING OPTIMIZATION PROBLEMS IN OPERATIONS RESEARCH USING MICROSOFT EXCEL AND SOFTER</i>	St. Xavier’s College (Autonomous), Palayamkottai.	27.07.2020
14	National Web Conference On	St. Xavier’s College	12.07.2021 to

	RECENT TRENDSS IN GRAPH THEORY	(Autonomous), Palayamkottai.	13.07.2021
15	State Level webinar on DISTANCES AND ALGORITHMS IN GRAPHS	Holy Cross College (Autonomous), Nagercoil.	16.07.2021
16	SXC Centenary Year – International Conference On RECENT DEVELOPMENTS IN PURE AND APPLIED MATHEMATICS	St. Xavier's College (Autonomous), Palayamkottai.	19.07.2022 to 21.07.2022
17	International Conference on Graphs from Algebraic Structures ICGA	St. Xavier's College(Autonomous), Palayamkottai	11th & 12th September 2024
18	International Conference on Research trends in Data Science	St. Xavier's College(Autonomous), Palayamkottai	25.10.2024- 26.10.2025
19	National Conference on Innovations in Discrete Mathematics	Nazareth Margoschis College, Pillaiyanmanai	04.10.2024
20	One day National Workshop on Graph Theory- In Memory of Prof. E. Sampathkumar	Sridharacharya Academy of Mathematical Sciences	22.09.24
21	Mastering Module Development: A Guide to the Four Quadrant Approach	Mother Teresa Women's University	29.08.24
22	Algebraic Structures	Nesamony Memorial Christian College, Marthandam	16.12.24 -20.12.24
23	Exploring new horizons in Mathematical Research	V.O.C. College, Thoothukudi	19.08.2024- 24.08.2024
24	Outcome Based Education and Application of Generative AI in Teaching and Research	St. Mary's College (Autonomous), Thrissur, Kerala	17 October 2024 to 24 October 2024
25	AI- Powered modern tools for research	St.Xavier's College, Palayamkottai	05-07 Mar 2025
26	Opportunities in Data Science and AI	ipsr solutions limited	29th October 2024
27	National workshop on MATH EXPO	St. Xavier's College(Autonomous), Palayamkottai& TNSCST	10 th January 2025

COUNTRIES VISITED			

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**EXTRA-CURRICULAR ACTIVITIES/ CO-CURRICULAR ACTIVITIES
ATTENDED(NCC/NSS/YRC/SPORTS/LITERARY AND CULTURAL ACTIVITIES)**

Date: 17.08.2025

Name: Dr.Y.ThereseSunithaMary