

RESUME



Name: S. Sethu Ramalingam
Designation: Assistant Professor
Department: Mathematics
**Address: St. Xavier's College (Autonomous), 21, North Highground Road,
Palayamkottai-627002, Tamil Nadu**

PERSONAL DETAILS

Date of Birth : 30-05-1982
Qualification : M.Sc, M.Phil, B.Ed, Ph.D
Designation : Assistant Professor
Department : Mathematics
Community : OC
Religion : Hindu
Nationality : Indian
Mobile : 9944628208
Email ID : sethuramtv1@gmail.com

ACADEMIC QUALIFICATIONS

Degree	Specialization	College	University	Year of Passing
B.Sc.	Mathematics	St. John's College	Manonmaniam Sundaranar University	2002
M.Sc.	Mathematics	St. John's College	Manonmaniam Sundaranar University	2004
M.Ph	Mathematics	Manonmaniam	Manonmaniam Sundaranar	2005

il.	tics	Sundaranar University	University	
B.Ed	Mathema	St. Xavier's College	Manonmaniam Sundaranar	2006
.	tics	o f Education	University	
Ph.D	Mathema		Manonmaniam Sundaranar	2018
.	tics		University	

ACADEMIC IDENTITY

*VIDWAN ID	287871
*ORCID ID	0000-0002-5301-3660
*SCOPUS ID	57222382987
*RESEARCHER ID/ PUBLONS ID	GOP-0969-2022
GOOGLE SCHOLAR LINK	https://scholar.google.com/citations?view_op=list_works&hl=en&user=HeuSCbwAAAAJ

TEACHING EXPERIENCE

Date of Appointment	16 / 06 / 2008
Date of Retirement	30/04/2042
Teaching Experience	UG : 16 years
	PG : 16 years
	M.Phil. : Nil
Research	Guided M Phil: Nil, Guided Ph D: Nil, Guiding Ph Scholar: Nil

COURSES/ CLASSES TAUGHT	NAME OF THE INSTITUTIONS	DURATION		Years
		From	To	
B.Sc. & M.Sc. Mathematics : B.Sc: Calculus, Differential & Integral Calculus, Set theory, Number System & Trigonometry, Sequences and Series, Analytical Geometry and Vector Calculus, Linear Algebra, Abstract Algebra, Modern Analysis,	St. Xavier's College (Autonomous), Palayamkottai	16 / 06 / 2008	27 / 04 / 2013	4 years 10 months 11 days

Differential Equations, Vector Calculus and Fourier Series, Mechanics, Statistics, Statics, Dynamics, Linear Programming and Game Theory, Operational Research, Numerical Methods M.Sc: Number Theory, Ordinary Differential Equations, Partial Differential Equations, Graph Theory, Calculus of Variations and Integral Equations, Computational Mathematics using Sage Math, Combinatorics				
B.E (EEE, ECE, CSE, Mechanical): Mathematics-I, Mathematics-II, Transforms & Partial Differential Equations, Discrete Mathematics, Mathematics-III, Mathematics-IV, Numerical Methods	Thamirabharani Engineering College, Tirunelveli	15 / 07 / 2013	31 / 05 / 2014	8 Months 21 days
B.Sc. & M.Sc. Mathematics : B.Sc: Calculus, Differential & Integral Calculus, Set theory, Number System & Trigonometry, Sequences and Series, Analytical Geometry and Vector Calculus, Linear Algebra, Abstract Algebra, Modern Analysis, Differential Equations, Vector Calculus and Fourier Series, Mechanics, Statistics, Statics, Dynamics, Linear Programming and Game Theory, Operational Research, Numerical Methods M.Sc:	St. Xavier's College (Autonomous), Palayamkottai	18 / 06 / 2014	Till date	11 years 1 months 3 days

Number Theory, Ordinary Differential Equations, Partial Differential Equations, Graph Theory, Calculus of Variations and Integral Equations, Computational Mathematics using Sage Math, Combinatorics				
---	--	--	--	--

AWARDS RECEIVED

1.	Special Prize for 100 % Attendance in academic year 2016-2017
2.	Best STAND contact staff award of the academic year 2016-2017
3.	Best STAND contact staff award of the academic year 2021-2022

ADMINISTRATIVE EXPERIENCE

S. No	DESIGNATION	INSTITUTIONS	YEAR
1.	Quiz Club	St. Xavier's College (Autonomous)	2018-2019
2.	NSS Programme Officer (Unit - 34)	St. Xavier's College (Autonomous)	2018-2021
3.	Coordinator	St. Xavier's College (Autonomous)	2020-2025
4	Library Committee	St. Xavier's College (Autonomous)	2021-2022

MEMBERSHIP

S. No	Designation	Particulars

ORIENTATION / REFRESHER COURSES / FACULTY DEVELOPMENT PROGRAMME UNDERGONE (UGC / HRDC / TLC-PMMNMT ONLY)

S. No	Name of the Training	Name of the Sponsoring Agency	Place and Date
1	TEQIP II Sponsored Faculty Development Programme on Recent Trends in Mathematics	TEQIP II,	Dept. of Mathematics, Bharathidasan Institute of Technology, Tiruchirappalli- 620024.

			16-12-2013 to 22-12-2013
2	Faculty Development Programme on LaTeX	V.O.C College, Tuticorin	Online, 29/04/2020 to 05/05/2020
3	Faculty Programme for CSIR NET Examinations-Mathematical Sciences	Nallamuthu Gounder Mahalingam College, Pollachi	Online 16-20 May 2020
4	Faculty Programme for CSIR NET Examinations-Mathematical Sciences	Nallamuthu Gounder Mahalingam College, Pollachi	Online 16-20 May 2020
5	Faculty Development Programme on LaTeX & Technical Report Writing	Kakatiya University, Telangana	Online, 25-30 May 2020
6	Faculty Development Programme on Pure and Applied Mathematics	Jamal Mohammed College, Trichy	Online, 11-16 June 2020
7	4-Week Induction / Orientation Programme for "Faculty in Universities / Colleges / Institutes of Higher Education"	Teaching Learning Centre, Ramanujan College, University of Delhi.	Online, 20 June – 19 July, 2022
8	National Level Mathematics Training Program	DST (SERB) & CSIR	Dept. of Mathematics, Manonmaniam Sundaranar University, Tirunelveli-627012

ORIENTATION / REFRESHER COURSES / FACULTY DEVELOPMENT PROGRAMME UNDERGONE (16) (SXC & Others)

S. No	Name of the Training	Name of the Sponsoring Agency	Place and Date
1	Orientation Programme	IQAC, St. Xavier's College (Autonomous)	Palayamkottai, 15-16 June 2009.
2	Orientation Programme for Teachers	IQAC, St. Xavier's College (Autonomous)	Palayamkottai, 14-15 June 2010.

3	Orientation Programme for Teachers	IQAC, St. Xavier's College (Autonomous)	Palayamkottai, 15 June 2012.
4	Orientation Programme for Teachers	IQAC, St. Xavier's College (Autonomous)	Palayamkottai, 18-19 August 2012.
5	Recent Trends in Mathematics	TEQIP II , Anna University, Bharathidasan Institute of Technology	Trichy, 16-22 December 2013.
6	Orientation Programme for Teachers on Innovative Teaching Strategies for Student	IQAC, St. Xavier's College (Autonomous)	Palayamkottai, 5 th July 2014.
7	Orientation Programme for Teachers on Classroom Management and Teaching skills	IQAC, St. Xavier's College (Autonomous)	Palayamkottai, 21 st August 2014.
8	Orientation Programme for Teachers on Millennium Psychology of Students	IQAC, St. Xavier's College (Autonomous)	Palayamkottai, 14-15 June 2016.
9	Orientation Programme for Teachers	IQAC, St. Xavier's College (Autonomous)	Palayamkottai, 15 th & 16 th July 2022.
10	SXC- Cenenary-Faculty Empowerment Programme (FEP)	IQAC, St. Xavier's College (Autonomous)	Palayamkottai, 23 rd July 2022
11	Orientation Programme for Teachers	IQAC, St. Xavier's College (Autonomous)	Palayamkottai, 16 th & 17 th June 2023
12	Five-day virtual Faculty Empowerment Workshop on "E-Content Preparation & ICT-Tools	IQAC, St. Xavier's College (Autonomous)	Palayamkottai, 19 th & 26 th September and 3 rd , 10 th & 17 th October, 2023.
13	Refresher course on "ICT Enabled teaching and learning"	IQAC, St. Xavier's College (Autonomous)	Palayamkottai, 29 th May 2024 to 14 th June 2024
14	A One day Faculty Enhancement and Empowerment Programme	IQAC, St. Xavier's College (Autonomous)	Palayamkottai, 23-07-2024.
15	Preparation and Finalizing research papers or journals recognized by the institute for scientific information	IQAC, St. Xavier's College (Autonomous)	Palayamkottai, 08-08-2024
16	Enhancing Research Productivity	IQAC, St. Xavier's College (Autonomous)	Palayamkottai, 12-12-2024
17	Staff Enhancement and Empowerment Programme on "Imparting computing skills to the student community"	IQAC, St. Xavier's College (Autonomous)	Palayamkottai, 15-02-2025

DETAILS OF RESEARCH WORK

Research Stages	Title of the Thesis	University where the work was carried out
2011-2018	Triangle Free Detour Concepts of a Graph	Manonmaniam Sundaranar University, Tirunelveli

AREAS OF RESEARCH

Graph Theory – Geodetic, Detour and Monophonic Concepts in Graphs

RESEARCH PROJECTS CARRIED OUT

S. No	Title of the Project (Minor)	Name of the Funding Agency & Amount	Duration
1.	Nil	Nil	Nil

PUBLICATIONS

BOOKS	BOOK CHAPTERS	SCOPUS	WEB OF SCIENCE	UGC LISTED
0	0	1	0	6
OTHER INDEXED	AS A RESOURCE PERSON	PAPERS PRESENTED IN NATIONAL AND INTERNATIONAL SEMINARS	WEBINARS, SEMINARS, WORKSHOPS ATTENDED	
0	0	5		

PUBLICATIONS: BOOKS (0)

S. No	Title of the Book	Publication	Year
1.	Nil	Nil	Nil

BOOK CHAPTERS ()

S. No	Title of the Paper	Name of the Book	ISSN No., Pg.No
1.	Nil	Nil	Nil

PUBLICATIONS: SCOPUS INDEXED JOURNALS (4) WEB OF SCIENCE ()

S. No	Title of the Paper	Name of the Journal	ISSN No., Volume, Issue, Impact factor & Pg. No
1.	Upper Triangle Free Detour Number of a Graph	Discrete Mathematics, Algorithm and Applications (DMAA)	Vol.14, No.1 (2022) 2150094 (12 pages) Impact Factor : SJR 0.19
2.	On the signal distance in graphs	Ars. Combinatoria	Vol.155, (2021), 261-271
3.	Weak Edge Triangle Free Detour Number of a Graph	Electronic Journal of Graph Theory and Applications (EJGTA)	Vol.10, No.2 (2022), 645-658
4.	Forcing Weak Edge	Palestine Journal of	Vol.12, No.1 (2023), 976-980

	Triangle Free Detour Number of a Graph	Mathematics (PJM)	
--	--	-------------------	--

PUBLICATIONS: UGC LISTED JOURNALS (2)

S. No	Title of the Paper	Name of the Journal	ISSN No., Volume, Issue, Impact factor & Pg. No
1.	Forcing Vertex Triangle Free Detour Number of a Graph	Global Journal of Engineering Science and Researches	4, 12 (2017), 133 – 137 Impact Factor : 4.022
2.	Edge Triangle Free Detour Graphs	Mathematical Sciences International Research Journal	7, 1 (2018), 188 - 194

PUBLICATIONS: OTHER INDEXED JOURNALS (4)

S. No	Title of the Paper	Name of the Journal	ISSN No., Volume, Issue, Impact factor & Pg.No
1.	Vertex Triangle Free Detour Number of a Graph	Mapana J Sci	15, 3 (2016), 9 – 24
2.	Upper Vertex Triangle Free Detour Number of a Graph	Mapana J Sci	16, 3 (2017), 27 - 40
3.	Upper Weak Edge Triangle Free Detour Number of a Graph	International Journal of Applied Graph Theory	2, 2 (2018), 9 - 15
4.	Forcing Edge Triangle Free Detour Number of an Edge Triangle Free Detour Graph	International Journal of Applied Graph Theory	4, 2 (2020), 18 - 26
5.	Connected Restrained Detour Number of a Graph	Indian Journal of Science and Technology	(2023), 32-36

AS A RESOURCE PERSON (26)

S. No	Name of the Event	Name of the Sponsoring Agency	Place and Date
1.	Mathfest 2024	Department of Mathematics, St. Xavier's College (Autonomous)	Palayamkottai, 31 st January, 2024
2.	International conference on Graphs from Algebraic Structures	Department of Mathematics, St. Xavier's College (Autonomous)	Palayamkottai, 11 th & 12 th September, 2024
3.	Mathefest 2025	Department of Mathematics, St. Xavier's College (Autonomous)	Palayamkottai, 22 January 2025
4.	Wworking Model during Intra Departmental competitions	Department of Physics, St. Xavier's College (Autonomous)	Palayamkottai, 03, March 2025

WEBMINARS/SEMINARS/ CONFERENCES / SYMPOSIA / WORKSHOP PAPER PRESENTED: National () International ()

S. No	Name of the Event	Name of the Sponsoring Agency	Place and Date
1.	VIII National Conference on Emerging Trends in Graph Theory	Christ University	Bangaluru on 03-04 March, 2017
2.	National Conference on Modern Mathematics & its Applications	American College	Madurai, 22-23 January 2018
3.	International Conference on Computing Sciences	Loyola College (Autonomous)	Chennai, 16-17 November 2018
4.	International Conference on Discrete Mathematics (ICDM 2019)	St. Joseph's College (Autonomous)	Trichy, 7-9 January 2019
5.	National Conference on Contemporary Research and Computer Intelligence- NCCRACI 2022	St. John's College of Arts and Science, Ammandivilai-629204	Nagerkovil, 28, October, 2022

WEBMINARS/SEMINARS/ CONFERENCES / SYMPOSIA / WORKSHOP ATTENDED:

S. No	Name of the Event	Name of the Sponsoring Agency	Place and Date
1.	National Conference on Fuzzy Theory and Applications	Department of Mathematics, St. Xavier's College (Autonomous)	Palayamkottai, 22-24 January 2009
2.	NAAC sponsored National conference on Quality Initiatives for student support and progression	NAAC & IQAC, St. Xavier's College (Autonomous)	Palayamkottai, 4-5 December 2009
3.	National Conference on Recent Advancements in Mathematics (NCRAM-2010)	Department of Mathematics, St. Xavier's College (Autonomous)	Palayamkottai, 19-20 February 2010
4.	National Conference on Recent Trends in Graph Theory and Applications	Department of Mathematics, St. Xavier's College (Autonomous)	Palayamkottai, 24-25 February 2011
5.	Seventh Annual Conference of Academy of Discrete Mathematics and Applications (ADMA) and Graph Theory Day VII	Department of Mathematics, National Institute of Technology, Calicut.	Kerala, 09- 11 June 2011.
6.	International Workshop on Set-Valuations, Signed Graphs, Geometry and Applications	Mary Matha Arts and Science College, Mananthavady, Kerala.	Kerala, 02-05, September 2011.
7.	National Workshop on ICT enabled Teaching Learning through smart class room facility	St. Xavier's College (Autonomous)	Palayamkottai, 27 th September 2011.
8.	Advanced Workshop on LaTeX and Matlab	K. S. Rengasamy College of Arts and Science.	Tiruchengode on 01 - 03, December 2011.
9.	National seminar on Graph Theory and its applications	St. Xavier's Catholic College of Engineering.	Nagercoil, 29 th September 2012.
10.	National Conference on Discrete Mathematics and Applications	Department of Mathematics, St. Xavier's College (Autonomous)	Palayamkottai, 13-14 December 2012
11.	Faculty Workshop on Competence Building	St. Xavier's College (Autonomous)	Palayamkottai, 15-16, March 2013.

12.	NBHM Sponsored National Seminar on Recent Developments in Algebraic Graph Theory	NBHM, SSN College of Engineering.	Chennai, 05 and 06, July 2013.
13.	TEQIP II sponsored Faculty Development Programme on Recent Trends in Mathematics	Bharathidasan University	Tiruchirappalli on 16 - 22, December 2013.
14.	National Conference on Recent Advances in Pure and Applied Mathematics	Department of Mathematics, St. Xavier's College (Autonomous)	Palayamkottai, 7 March 2014.
15.	UGC Sponsored National Conference on Recent Advances in Pure and Applied Mathematics	UGC, St. Xavier's College (Autonomous)	Tirunelveli on 03 - 05, September 2014.
16.	One day Workshop on LaTeX	St. Xavier's Catholic College of Engineering	Nagercoil, 5 th February 2015.
17.	NAAC sponsored National Seminar on Innovations in Student-Centered Teaching- Learning in 21 st Century	IQAC, St. Xavier's College (Autonomous)	Palayamkottai, 29-30 January 2015.
18.	One day Workshop on LaTeX and Matlab	St. Xavier's Catholic College of Engineering	Nagercoil on 05, February 2015.
19.	International Conference on New Dimensions in Mathematical Biology	Department of Mathematics, St. Xavier's College (Autonomous)	Palayamkottai, 18 th December 2015.
20.	National Conference on Mathematical Analysis and Graph Theory	Department of Mathematics, St. Xavier's College (Autonomous)	Palayamkottai, 10-12 March 2016.
21.	Seminar for Teachers on Psychology of Students	IQAC, St. Xavier's College (Autonomous)	Palayamkottai, 30 th September 2016.
22.	National Level Seminar on Emerging Trends in Pure and Applied Mathematics	Department of Mathematics, St. John's College	Palayamkottai, 6 th January 2017
23.	VIII National Conference on Emerging Trends in Graph Theory	Christ University	Bangaluru on 03-04 March, 2017.
24.	One day Workshop on Hands on with LaTeX	Department of Information Technology, Dr. Sivanthi Aditanar College of Engineering	Tiruchendur, on 26, April 2017.
25.	National Level Mathematics Training Program	Department of mathematics, Manonmaniam Sundaranar University	Tirunelveli, on 01 - 07, June 2017.
26.	National Conference on Modern Mathematics & its Applications	American College	Madurai, 22-23 January 2018
27.	National Conference on Algebra and Graph Theory	Department of Mathematics, St. Xavier's College (Autonomous)	Palayamkottai, 15-16 February 2018
28.	International Conference on Computing Sciences	Department of mathematics, Loyola College	Chennai on 16-17 November, 2018.

29.	International Conference on Discrete Mathematics	Department of mathematics, St. Joseph's College	Trichy on 07-09 January, 2019.
30.	National Seminar on Recent Developments in Mathematics	Department of Mathematics, St. Xavier's College (Autonomous)	Palayamkottai, 11 th March 2019
31.	UGC sponsored Seminar on Assessment and Accompaniment of Students	Department of Mathematics, St. Xavier's College (Autonomous)	Palayamkottai, 30 th March 2019
32.	LaTeX Training	NHRD	Online, 1 st March 2020
33.	National Workshop on Functional Analysis and its Application	Department of Mathematics, St. Xavier's College (Autonomous)	Palayamkottai, 13-14 February 2020
34.	Workshop on Mathematical Sciences for CSIR-NET/SET/GATE	Sree Narayana Guru College	Coimbatore on 11-15 May 2020 (Online)
35.	National Webinar on Introduction to Matlab	Alagappa University	Karaikudi on 16 th May 2020 (Online)
36.	Webinar on Research Techniques on Difference Operators	Immaculate College for Women, Kallakurichi	Online, 20 th May 2020
37.	Motivational webinar on Mindset and Milestones Ahead of Students community after Covid-19	K.L.N College of Engineering, Chennai	Online, 20 th May 2020
38.	National Seminar on Recent Research Topics in Mathematics	Auxilium College, Vellore	Online, 28-29 May 2020
39.	State level webinar on Kanakkum Kathaipesuthae	Annammal College of Education for Women, Thoothukudi	Online, 1 st June 2020
40.	National Webinar on Digital Tools for Interactive Teaching	St. Xavier's College of Education, Palayamkottai	Online, 5 th June 2020
41.	Webinar on Decision Making with the application of Data Mining	K. Ramakrishnan College Technology, Trichy	Online, 5 th June 2020
42.	Online Workshop on Designing & Developing Flipped Classroom	Holy Cross Home Science College, Thoothukudi	Online, 3-7 June 2020
43.	Online Workshop on Mathematical Analysis	Loyola College, Chennai	Online, 8-13 June 2020
44.	International webinar series on Mathematical Teaching Skills & E-Resources	Loyola College, Chennai	Online, 11-12 June 2020
45.	Training Programme on LATEX for Everyone	Ramrao Adik Institute of Technology, Navi Mumbai	Online, 18-20 June 2020
46.	International Web Conference on Pure and Applied Mathematics	St. Xavier's College (Autonomous), Palayamkottai,	Online, 23-24 June 2020

47.	National Webinar on Online Classes:Prospects and Challenges	St. Xavier's College of Education, Palayamkottai	Online, 25 th June 2020
48.	National webinar on COVID-19 & Care for Environment	St. Xavier's College (Autonomous), Palayamkottai,	Online, 26 th June 2020
49.	National webinar on Advances in Graph Theory	Government College Daman,	Online, 29 th June 2020
50.	National webinar on COVID-A Hidden War in Open Field	IQAC, St. Xavier's College (Autonomous), Palayamkottai	Online, 29 th June 2020
51.	Introduction to Graph Algorithms	SCAD Polytechnic College, Tirunelveli	Online, 2 th July 2020
52.	State Level Endowment Workshop on ICT Tools for smart teaching and learning	Department of Mathematics, St. Xavier's College (Autonomous)	Palayamkottai, 31/03/2022 to 01/04/2022
53.	SXC Centenary year – International Conference on “Recent Development in Pure and Applied Mathematics”	Department of Mathematics, St. Xavier's College (Autonomous),	Palayamkottai on 19-21, July 2022
54.	A Two day Workshop on Linear Algebra	Department of Mathematics, St. Xavier's College (Autonomous),	Palayamkottai, 6 th & 7 th , December 2023.
55.	National Seminar on Recent Trends In Applied Mathematics and Inter-Collegiate Competitions	Department of Mathematics, St. Alphonsa College of Arts and Science,	Soosaipuram, Karinkal, February 13, 2024
56.	International Conference on Applications of Mathematics in Data Science	Department of Mathematics, St. Xavier's College (Autonomous),	Palayamkottai, 27 th & 28 th February, 2024.
57.	National Mathematics Day Celebration	Department of Mathematics, St. Xavier's College (Autonomous),	Palayamkottai, 10 th January, 2025
58.	International conference on Graphs from Algebraic Structures	Department of Mathematics, St. Xavier's College (Autonomous),	11 th & 12 th September, 2024

COUNTRIES VISITED

Nil	Nil	Nil	Nil
-----	-----	-----	-----

EXTRA-CURRICULAR ACTIVITIES/ CO-CURRICULAR ACTIVITIES

ATTENDED(NCC/NSS/YRC/SPORTS/LITERARY AND CULTURAL ACTIVITIES

NSS Programme Officers (2018 – 2021) – St. Xavier's College (Autonomous), Palayamkottai

Date: 21/ 07 / 2025

Name: S. Sethu Ramalingam