



St Thomas College, Kozhencherry

Established in 1953 | Reaccredited by NAAC with Grade A | ISO 9001:2015 Certified | ISO 21001:2018 Certified

Affiliated to Mahatma Gandhi University, Kottayam

www.stthomascollege.info

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Faculty Profile

Ms Ann Susa Thomas

Assistant Professor

Department of Mathematics

Mobile No. +91 8547577190

✉ annsusathomas@stthomascollege.info



Personal Details

Date of Birth	11.06.1985
Nationality	Indian
Marital Status	Married
Permanent Address	Chackalamuriyil House, M North P. O., Puramattom, Pincode 689543, Tiruvalla, Pathanamthitta, Kerala, India.

Higher Education

2008 – 2009	M.Phil Mathematics , Madras Christian College, Chennai
2006 – 2008	M.Sc Mathematics , Madras Christian College, Chennai
2003 – 2006	B.Sc Mathematics , Assumption College, Changanacherry

Professional Position

10 January 2011 to present	Assistant Professor, Department of Mathematics, St Thomas College, Kozhencherry
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Teaching Experience

2011 – 2023	Undergraduate students
2012 – 2023	Postgraduate students

Courses Taught

M.Sc	■ Basic Topology
	■ Advanced Topology
	■ Differential Geometry
B.Sc	■ Partial Differentiation, Matrices, Trigonometry and Numerical Methods
	■ Calculus
	■ Applicable Mathematics (Open Course)
	■ Graph Theory and Metric Spaces

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Professional Service Rendered

15 October 2020 till date	■ HoD in Charge, Department of Mathematics
AY 2019-20 till date	■ Convenor, IQAC Criterion 1 - Curricular Aspects
AY 2021-22 till date	■ Convenor, Club for HR and Counselling
AY 2018-19 to AY 2020-'21	■ Convenor, Club for Student Leadership
AY 2016-17 to AY 2019-'20	■ Editorial Board Member, Reyono Journal of Interdisciplinary Studies
4 November 2020	■ Convenor, FDP Webinar on Mapping of Outcomes: Programme Outcomes, Course Outcomes and Learning Outcomes, jointly organized by IQAC and KSHEC
31 January 2020	■ Coordinator, National Seminar on Futuristic Approach to Climate Change, jointly organized by Reyono Journal and IQAC
7 March 2019	■ Coconvenor, National Seminar on Natural Disasters in Kerala: Concerns and Challenges, organized by Reyono Journal
AY 2017-'18 to AY 2019-'20	■ Committee Member, Walk with the Scholar Programme
AY 2017-18	■ Secretary, Women's Cell
	■ Chief Examiner, B.Sc. Degree Examinations held under Mahatma Gandhi University, Kottayam
	■ Additional Examiner, M.Sc and B.Sc. Degree Examinations held under Mahatma Gandhi University, Kottayam

Other Important Responsibilities/Positions Held




- Kerala University Question Paper Setting
- Participated in the Question Bank Upgradation Initiative of Mahatma Gandhi University, Kottayam and contributed to the Question Bank of IVth Semester PG CSS Examination.
- Served as Subject Expert for Guest Faculty interview at Bishop Abraham Memorial College, Thiruvithur during the AY 2022-23

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Social Responsibilities Held

- Presiding Officer, Lok Sabha Election, May 2016
- Presiding Officer, Panchayath Election, November 2015





Awards and Achievements

- June 2010  Twelveth Rank, CSIR-UGC NET
- December 2008  Qualified State Eligibility Test for Lectureship, Tamil Nadu
- April 2006  Second Rank, B.Sc. Mathematics under Mahatma Gandhi University, Kottayam





Research Experience

-  **Research Scholar (Part time)**, Postgraduate and Research Department of Mathematics, Catholicate College, Pathanamthitta, affiliated to Mahatma Gandhi University Kottayam. (from 1st January 2018 onwards)
Guide: Dr Sunny Joseph Kalayathankal, Former Head & Associate Professor, Kuriakose Elias College, Mannanam, Kottayam
Area of Research: Spectral Graph Theory




Areas of Specialization and Interest

-  **Graph Theory**
-  **Point Set Topology**
-  **Abstract Algebra**
-  **Discrete Mathematics**

Research Publications

-  **The Vertex Distance Complement Spectrum of Subdivision Vertex Join and Subdivision Edge Join of two Regular Graphs.**
Ann Susa Thomas, Sunny Joseph Kalayathankal, Joseph Varghese Kureethara. Ural Mathematical Journal, Vol. 7, No. 1, 102-108, 2021. ISSN 2414-3952
-  **Visualisation of Collage Grammar to Cell Works – ETOL Mode and Part Sensitive Mode.**
Ann Susa Thomas. Mapana Journal of Sciences, 42, 16 (3), 47-56, 2017. Christ University. ISSN 0975-3303
-  **An Introductory Note on the Spectrum and Energy of Molecular Graphs.** . Ann Susa Thomas, Sunny Joseph Kalayathankal, Joseph Varghese Kureethara. Mapana Journal of Sciences, 41, 16 (2), 17-27, 2017. Christ University. ISSN 0975-3303.
-  **Extension of Collage Grammar to Cell Works: Context Free Mode.** Ann Susa Thomas. Reyono Journal of Interdisciplinary Studies. Volume 5, Issue 2, July 2016. ISSN 2277-7652

Paper Presentations

-  **Distance Spectrum of Two Families of Graphs.** International Conference on Number Theory and Graph Theory (ICNG – 2023). Department of Mathematics, Manipal Institute of Technology, Manipal Academy of Higher Education, Manipal. 18 - 20 January 2023
-  **Laplacian Spectrum of Corona Product of Graphs and its Applications.** IIIrd International Conference on Science, Engineering, Technology & Social Sciences (ICSETS – 2019). Department of Mathematics, Kuriakose Elias College, Mannanam. 11 - 12 March 2019
-  **Computation of Graph Spectrum.** International Conference on Emerging Trends in Graph Theory (ICETGT - 2019). Department of Mathematics, Christ (Deemed to be University), Bangalore. 27 – 28 February 2019

Paper Presentations (continued)

- **A Note on the Concept of Energies of Graphs.** IInd International Conference on Science, Engineering, Technology & Social Sciences (ICSETS – 2018). Department of Mathematics, Kuriakose Elias College, Mannanam. 18 - 19 January 2018
- **Visualisation of Collage Grammar to Cell Works – ETOL Mode and Part Sensitive Mode.** International Conference on Science, Engineering, Technology & Management (ICSETM – 2017). Department of Mathematics, Kuriakose Elias College, Mannanam. 8 - 9 March 2017

Minor Research Project

- Completed Minor Research Project titled **Extension of Collage Grammar to Cell Works**, UGC letter No. F. 1899- MRP/ I4-I5/ KLMGo22/ UGC-SWRO dated 04-Feb-15, Project Period 2015-17.

Faculty Development Programmes Attended

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| 1- 15 October 2020 | ■ Faculty Development Programme on Research Methodology, Ramanujan College, University of Delhi and MHRD. |
| 17- 30 September 2019 | ■ Refresher Course in Mathematics, UGC HRDC, University of Kerala. |
| 4 - 24 August 2015 | ■ Refresher Course in Mathematics, UGC HRDC, University of Kerala. |
| 6 June - 3 July 2013 | ■ Orientation Course, UGC ASC, University of Kerala. |

Recent Seminars/ Conferences/ Workshops Attended

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| 18 - 20 January 2023 | ■ International Conference on Number Theory and Graph Theory (ICNG – 2023), organized by Department of Mathematics, Manipal Institute of Technology, Manipal Academy of Higher Education, Manipal |
| 18 December 2021 | ■ National Seminar on Differential Equations: Analysis and Applications, organized by Postgraduate Department of Mathematics, St Thomas College, Kozhencherry |
| 29-30 May 2021 | ■ Two-day International Online Workshop on Reference Management and Zotero Software, organized by Archbishop Kavukattu Central Library, Assumption College, Changanassery in association with Lore & Ed Research Associates |
| 6 - 8 August 2020 | ■ International Conference on Graph Connections (ICGC 2020), organized by BCM College, Kottayam |
| 1 - 5 May 2020 | ■ Online Training Course 'Make and Edit Video Classes' conducted by IQAC Cell of Christ College, Irinjalakuda |
| 31 January 2020 | ■ National Seminar on Futuristic Approach to Climate Change, organized by REYONO journal of interdisciplinary studies and IQAC, St Thomas College, Kozhencherry |
| 10 January 2020 | ■ National Seminar on Discrete Mathematics and its Application, organized by Assumption College, Changanacherry |
| 3 January 2020 | ■ One day workshop on Numerical Analysis with Python, organized by the Postgraduate Department of Mathematics, St Thomas College, Kozhencherry |

Recent Seminars/ Conferences/ Workshops Attended (continued)

7 March 2019	■ National Seminar on Natural Disaster in Kerala: Concerns and Challenges, organized by REYONO journal of interdisciplinary studies and IQAC, St Thomas College, Kozhencherry
11 April 2018	■ Seminar on Research Methodology, organized by Catholicate College, Pathanamthitta
16 November 2018	■ Cluster Workshop for internal mentors of WALK WITH A SCHOLAR Programme, organized by Government Arts and Science College, Elanthoor
3 – 4 August 2018	■ Two-Day Workshop on Typesetting in LaTeX, organized by Department of Mathematics, St Thomas College, Kozhencherry
30 October- 1 November 2017	■ Three-Day International Conference on Recent Trends in Graphs and Networks, organized by St Xavier's College for Women, Aluva
25-27 October 2017	■ Three-Day International Seminar on Catalyzing Women Empower- ment for an Egalitarian Society, organized by Titus II College, Tiruvalla
15-17 December 2016	■ Three-Day International Workshop on Coding Theory and Fractals with Applications to Computer Science and Engineering, organized by MACFAST, Tiruvalla

Community Service

- Support rendered to colonies near the college during Kerala Flood 2018

Skills

Languages known	■ English, Malayalam, Tamil, Hindi.
Coding	■ Python, C, \LaTeX