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### Teaching and Research Experience

- Assistant Professor: (18<sup>th</sup> June 2015 – Till date)  
Department of Mathematics, Lady Doak College, Madurai, Tamil Nadu.
- Assistant Professor (FDP) : (8<sup>th</sup> April 2015 – 30<sup>th</sup> April, 2015) Department of Mathematics, Lady Doak College, Madurai, Tamil Nadu.
- Public Phd Viva Voce Examination on March 16<sup>th</sup>, 2015.
- Guest Lecturer (Mathematics) : (July 2014-March 2015), Department of Computer Science Engineering, Manonmaniam Sundaranar University, Thirunelveli, Tamil Nadu.
- Full time PhD: (February 2010-March 2014) S.S Pillai Centre for Research, PG and Research Department of Mathematics, V. O. Chidambaram College, Thoothukudi, Tamil Nadu. (Affiliated to Manonmaniam Sundaranar University, Tirunelveli, Tamil Nadu).
- Lecturer:(July 2009- November 2009), St. Mary's College (Autonomous), Thoothukudi, Tamil Nadu.

Degree	Specialization	Institution	Affiliation	Year	%	Class
Ph.D.	Mathematics	Manomaniam Sundaranar University	Manonmaniam Sundaranar University	March 2015	---	----
M. Phil.	Mathematics	St. Xavier's College, Palayamkottai	Manonmaniam Sundaranar University	April 2009	80	First Class
M. Sc.	Mathematics	St. Xavier's College, Palayamkottai	Manonmaniam Sundaranar University	April 2008	73	First Class

B. Sc.	Mathematics	St. Mary's College, Tuticorin	Manonmaniam Sundaranar University	April 2006	91	First Class with Distinction
HSC	French, English, Physics, Chemistry, Biology and Maths	Holy Cross G AI HSS, Tuticorin	-	March 2003	92	First Class with Distinction
SSLC	Tamil, English, Mathematics, Science, History and Geography	Holy Cross G AI HSS, Tuticorin	Anglo Indian Board	March 2001	93	First class with Distinction

### **E-content developer and presenter (*Presented more than 50 modules since 2016*)**

- *Core and Pedagogy of Mathematics*-SWAYAM-Ministry of Human Resource Development (MHRD)-July 2018 to September 2018. <https://swayam.gov.in/courses/5079-core-and-pedagogy-of-mathematics>
- Involved in developing and presenting e-content for MOOC- *Algebra*-SWAYAM-Ministry of Human Resource Development(MHRD)-From July 2019
- Involved in developing and presenting e-content for MOOC- *Graph Theory* -Swayam-Ministry of Human Resource Development (MHRD)- October 2019- December 2019
- Translation of MOOC course modules into Tamil- *Algebra*- Swayam- October 2022 - November 2022.
- Involved in developing and presenting e-content for MOOC- *Ring Theory and Linear Algebra I*- Swayam- MHRD- November 2022- May 2023.
- Involved in developing and presenting e-content for MOOC- *Ring Theory and Linear Algebra II*- Swayam -MHRD- February 2024- March 2024.

### **Co-curricular activities**

- Co-ordinator of Centre for Communication and Multimedia (CCM) (June 2025)
- Convenor of Fine-Arts committee (June 2023- present)
- Committee member for Center for Communication and Multimedia (June 2023-present)
- Committee member for Audio-visual club of Lady Doak college (June 2023- present)
- Convening member of the Part V- Ranging (Bharat Scouts and Guides) (June 2021 – April 2022)
- Committee member of the Part V- NCC (army wing) unit- (June 2020- June 2021)
- Committee Member of the Audio-visual club of Lady Doak college (June 2019- June 2021)
- Convenor of Lady Doak College Debating Society (June 2018- April 2021)
- Convenor of Lady Doak College Book Club (June 2017- April 2019)
- Magazine Committee coordinator for publishing the college magazine (June 2017- April 2018)

- Rangering unit coordinator (Bharat Scouts and Guides)- (June 2016-March 2017) Lady Doak College, Madurai
- Editor of the Lady Doak College Mathematics Newsletter (June 2015- March 2017)
- Convenor of the Post-graduate Mathematics Club (2018- 2022)
- Created an e-content on “Introduction to Graph theory” for the Mathematics Department of Lady Doak College. (2016)
- Convening member of the Rangering unit (Bharat Scouts and Guides) of Lady Doak College: June 2015-2016.

### Conferences Organized

- Member of the organizing committee-International Conference on New Frontiers in Mathematics and Computing, Lady Doak College, Madurai-February 18<sup>th</sup> & 19<sup>th</sup>, 2019.
- Co-ordinator- International Seminar on New Advances in Graph Theory- July 18<sup>th</sup>, 2022.
- Treasurer- International Seminar on Applied Mathematics- February 27<sup>th</sup>, 2023.

### Conferences/ Training Programmes (2015-present)

1. *Junior Faculty Orientation Programme* organized by Centre for Human Resources Development, Lady Doak College, Madurai. (15-16 June, 2015)
2. Faculty Training on *Concept based learning, Learning Outcomes and Bloom’s Taxonomy* organized by Department of Mathematics, Lady Doak College, Madurai. (1<sup>st</sup>, 3<sup>rd</sup> and 7<sup>th</sup> September, 2015).
3. *Workshop on Stochastic Processes* organized by Department of Mathematics, Lady Doak College on 18<sup>th</sup> and 19<sup>th</sup> November, 2015.
4. *National Conference on Promoting Student Centric Learning in Environmental Studies*, organized by Centre for Environmental Studies, Lady Doak College, Madurai and sponsored by United Board (24<sup>th</sup> and 25<sup>th</sup> July, 2016).
5. *Workshop on Blended Learning*, organized by Centre for Human Resources Development, Lady Doak College, Madurai. (28<sup>th</sup> July, 2016)
6. Poster presentation at *International Conference on Theoretical Computer Science and Discrete Mathematics*, Kalasalingam University and sponsored by NBHM, SERB and CSIR. (19<sup>th</sup>-21<sup>st</sup> December, 2016).
7. Training Programme in *Data Science and Big Data Analytics* organized by ICT Academy and Department of Computer Science, Lady Doak College, Madurai (December 5<sup>th</sup> 2016, January 9<sup>th</sup>, 10<sup>th</sup>, 12<sup>th</sup>, 2017)
8. Paper presented at *National Conference on Quality Sustenance in Higher Education Institutions*, organized by Internal Quality Assurance Cell, Lady Doak College, (6<sup>th</sup> and 7<sup>th</sup> September, 2018)
9. *Workshop in Python Programming* organized by Department of Mathematics, Lady Doak College, Madurai (18<sup>th</sup>, 21<sup>st</sup> and 25<sup>th</sup> March, 2019).
10. *One day Workshop on Python* conducted by IIT Bombay jointly organized by Department of Computer Science and Engineering, Thiagarajar College of Engineering (TCE), Madurai on 22<sup>nd</sup> June 2019.
11. Participant in the “*Think Edu Conclave 2020*” organized by Sastra University and Indian Express in Chennai (January 8<sup>th</sup> and 9<sup>th</sup>, 2020)
12. Participated in a *21day Online Certificate Course on Human Rights* organized by Institute of Human Rights Education (IHRE) of People’s Watch, Madurai from May 11<sup>th</sup> to May 30<sup>th</sup>, 2020.
13. Participant in the *Workshop on Data Analysis using SPSS*, organized by the Research and Development cell, Lady Doak College on 17<sup>th</sup> and 22<sup>nd</sup> December, 2020
14. Participant in the *online Workshop on Recent trends in Domination and Graph Labelling (RTDGL 2021)* organized by Department of Mathematics, Ramanujan College, University of Delhi in collaboration with Academy of Discrete Mathematics

- and Applications (ADMA) (27<sup>th</sup> May 2021-31<sup>st</sup> May 2021)
15. Participant in the online *Faculty Training program on Application of Mathematics and Programming in Science and Technology* organized by Department of Mathematics, Karunya University, Coimbatore. (June 1<sup>st</sup>-June 11<sup>th</sup>, 2021)
  16. Participant in the *8<sup>th</sup> online Faculty Induction programme* organized by UGC-HRDC, Madurai Kamarajar University, Madurai (December 1<sup>st</sup>- December 30<sup>th</sup>, 2021)
  17. Participant in the *Online Refresher Course on Applicable Mathematics* organized by Ramanujan College, New Delhi (July 26<sup>th</sup>- August 8<sup>th</sup>, 2022)
  18. Participant in the *Workshop on Organizational Culture* organized by Centre for Human Resource Development, Lady Doak College, Madurai (September 15<sup>th</sup>, 2022)
  19. Participant in the *Workshop on Grants Writing for Research* organized by Research and Development Cell in collaboration with IQAC, Lady Doak College, Madurai (November 7<sup>th</sup>, 2022)
  20. Participant in the *One-day Workshop on Developing Online course for LDC*, organized by Center for Communication and Multimedia, Lady Doak College (December 19<sup>th</sup>, 2022)
  21. Participant in the *First Meru Annual Combinatorics Conference*, organized by Department of Mathematics, Pondicherry Central University, Puducherry in collaboration with IMSC (The Institute of Mathematical Sciences) Chennai during May 29<sup>th</sup>- 31<sup>st</sup>, 2023.
  22. Participant in the *Refresher course in Mathematics* organized by UGC-HRDC, Pondicherry University, Puducherry (October 4<sup>th</sup>- October 17<sup>th</sup>, 2023).
  23. Participant in the *Indo-Slovenia Pre-conference School on Algorithms and Combinatorics* organized by IIT, Bhilai, Chhattisgarh from 12<sup>th</sup> February to 13<sup>th</sup> February 2024 and made a short presentation on “*The complex problem of the complexity of the Minimum dominating set Algorithms*” at the *Young Researchers forum (YRF)* of the school.
  24. Participant in the *10<sup>th</sup> Annual International Conference on Algorithms and Discrete Applied Mathematics (CALDAM)* organized by IIT Bhilai, Chhattisgarh from 15<sup>th</sup> February to 17<sup>th</sup> February 2024.
  25. Participant in the GIAN course on *Sparse Graphs: Treewidth and Complexity* organized by IIT Dharwad from 24<sup>th</sup> February to 8<sup>th</sup> March 2025.

## **Area of Research: Discrete Mathematics and Graph algorithms**

### **Publications**

1. T. Asir, M. Evangeline Prathibha, T. Surendranath Reddy, “ Essential Graph Theory- Concepts and Algorithms”, Cambridge University Press, ISBN 978-1-009-55937-9, 2025.
2. Rabikka V, Asir T, Evangeline Prathibha M, “Spectrum of Graphs over Rings”, Algebra and Related topics with Applications, Springer Proceedings in Mathematics and Statistics, Volume 392, 2022, 427-450.
3. Avudaiappan T, Murugan V, Balasubramanian R, Evangeline Prathibha M, Design and Implementation of Service Oriented Cloud Computing Architecture for Brain MR Image Segmentation, International journal of Control Theory and Applications, Volume 10(1), 2017.
4. Evangeline Prathibha M, S Pious Missier, A. Anto Kinsley, Algorithms to determine the Distance-t dominating sets of ES (n, k), Procedia Computer Science, Volume 47, 2015, 342-350.
5. Evangeline Prathibha M, S Pious Missier, A. Anto Kinsley, Algorithms to determine an independent dominating set of ESC (n, k), Malaya Journal of Matematik, Volume 2(4), 2014, 352-362.
6. Evangeline Prathibha M, S Pious Missier, A. Anto Kinsley, Algorithms To Determine The Independent, Efficient And Paired Dominating Sets Of The Extended Star Graph, Asian Journal of Current Engineering and Maths, Volume 2(5), 2013.
7. Evangeline Prathibha M, S Pious Missier, A. Anto Kinsley, Combinatorial results on the Extended Star Graphs with Cross connections, IOSR journal of Mathematics, Volume 3(6), 2012, 24-27.
8. Evangeline Prathibha M, S Pious Missier, A. Anto Kinsley, Combinatorial results on the Extended Star Graphs, Outreach, Volume 1(5), 2011, 79-82.

### **Invited Lectures**

1. Delivered a *Webinar on Mathematical Paradoxes* organized by Department of Mathematics, St. Mary's College (Autonomous), Thoothukudi on June 13, 2020.
2. Delivered an Orienting lecture on *National Innovation and Start-up Policy (NISIP)* on 22<sup>nd</sup> December 2020, organized by Department of Mathematics and Institution Innovation Cell (IIC) of St. Mary's College (Autonomous), Thoothukudi.
3. Delivered a lecture on *History of Mathematical Logic* on 21<sup>st</sup> July 2023 at an Association Meeting of the Department of Mathematics (SSC), St. Mary's College (Autonomous), Thoothukudi.
4. Delivered a lecture on *Introduction to Dominating set algorithms* on 23<sup>rd</sup> August 2024 in the National Seminar on Mathematical Innovations and Applications in the Digital Age organized by Department of Mathematics, Mary Matha College of Arts and Science, Periyakulam.

### **Guidance**

- Guided 40 final year B. Sc. Students for their Life Frontier Education projects, which incorporate use of Mathematics and Statistics to collect and analyse data from local communities in Madurai (2015- present).
- Guided 30 M.Sc. students for their final year projects in various mathematical concepts (2015-present).

