



Dr. Sreedevi O B

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❖ EDUCATIONAL QUALIFICATIONS:

- **PhD (2016-2020) :** Scott Christian College, Nagercoil, Manonmaniam Sundaranar University.
- **M.Phil (2011-13) :** Scott Christian College, Nagercoil, Manonmaniam Sundaranar University.
- **M.Sc. Mathematics (2003-05) :** University of Kerala, Kariavattom, Thiruvananthapuram, Kerala University.
- **B.Ed.(2001-02) :** Victory Vocational Teacher Training Centre, Olathanni, Trivandrum, Kerala University.
- **B.Sc. Mathematics (1998-01) :** Christian College, Kattakada, Thiruvananthapuram, Kerala University.
- **SSLC (1995) :** St. Chrystom's High School, Nellimoodu, Thiruvananthapuram

❖ TEACHING EXPERIENCES:

- Christ Nagar College, Maranalloor.
- Govt. KNM Arts & Science College, Kanjiramkulam.
- St. Xavier's College, Thumba, Thiruvananthapuram.
- John Cox Engineering College, Kannammoola, Trivandrum -11
- Sree Chitra Thirunal College of Engineering, Pappanamcode, Thiruvananthapuram-18.
- Nazareth Home English Medium School, Balaramapuram, Tvm.
- Abdul Salam Rafi Residential Public School, Nettayam, Thiruvananthapuram-13
- Trinity English & Malayalam Medium High School, Nemom, Thiruvananthapuram-20.
- Victory Vocational Higher Secondary School, Neyyattinkara, Thiruvananthapuram.

Online Teaching Experience

- 100 HOURS OF ONLINE TEACHING for students community on Teachmint.

Content writer in Mathematics

- Sree Narayanaguru Open University, Kureepuzha, Kollam.

❖ RESEARCH EXPERIENCES

- **Doctor of Philosophy in Mathematics 2019**

Title: Efficient Graph Pattern Matching Technique IKFCM using Oppositional Fruitfly Algorithm.

Research Centre: Scott Christian College, Nagercoil, Manonmaniam Sundaranar University, Tirunelveli.

Advisor: **Dr. S Joseph Robin**, Supervisor, Associate Professor, Department of Mathematics, Scott Christian College (Autonomous), Nagercoil-629003

➤ **M. Phil. Project in 2013**

Title: A Study on Nonsplit Domination Numbers of A Graph

Research Centre: Scott Christian College, Nagercoil, Manonmaniam Sundaranar University, Tirunelveli.

Advisor: **Dr. S Robinson Chellathurai**, Associate Professor, Department of Mathematics Scott Christian College (Autonomous), Nagercoil.

➤ **Proficiency Counselling Project 2010**

Title: “THE INNOCENT CRIMINALS;A Study On The Criminal Behavior Of Children”

Research Centre: United Theological College, Bangalore.

Advisor: **Rev. Dr R Sahayadas**, United Theological College, Bangalore

❖ **PROJECT SUPERVISING EXPERIENCE**

- Co-supervised B.Sc, and B.tech Mathematics projects of students from different colleges.

❖ **PROFESSIONAL EXPERIENCE**

- Diploma for proficiency Counselling from United Theological College, Bangalore
- Women Studies at United Theological College, Bangalore
- Type Writing English & Malayalam
- Java Programming eAccp 2002 DISM Course

❖ **LIST OF PUBLICATIONS**

1. **Sreedevi.O.B**, 2019, Multi Kernel Fuzzy C-Means Clustering –Salp Swarm Optimization Algorithm based Graph Pattern Matching, International Journal of Scientific Research and Review, Vol. 8, no.3, pp.878-887, ISSN No.: 2279-543X

2. **Sreedevi.O.B**, 2019, Oppositional Fruit fly and IKFCM Algorithm based Graph Pattern Matching, International Journal of Research and Analytical Review, Vol.6, no.1, pp.68-77, ISSN No : 2349-5138.
3. **Sreedevi.O.B**, 2021, Certified domination in Switching of a vertex of Some graphs, Newfangled Avenues of Applied Mathematics, pp.82-90. ISBN No: 978-93-91987-00-8.
4. **Sreedevi O. B**, 2022, Designing dependency graph based on graph pattern matching, multi-disciplinary research perspectives on the challenge of sustainable development (National Conference), pp. 162 to 167, ISBN No : 978-93-94428-01-0.

❖ **LIST OF CONFERENCE PAPERS**

1. **2019** : Presented a paper entitles “Graph Generation and Dependency Graph Matching Based on Graph Pattern Matching” in the International Conference on Emerging Trends in Mathematical, Physical and Chemical Sciences(ETMPC2019) held at Noorul Islam Centre for Higher Education.
2. **2019** : Presented a paper entitles “Improved Oppositional Fruit fly and IKFCM Algorithm Based Graph Pattern Matching” in 1st International Conference on Recent Scientific Research in Engineering and Technology, TECHOWN.
3. **2021** : Presented a paper entitles “Certified domination in Switching of a vertex of Some graphs, Newfangled Avenues of Applied Mathematics”.
4. **2022** : Presented a paper entitles “Designing dependency graph based on graph pattern matching, multi-disciplinary research perspectives on the challenge of sustainable development” in National Conference.

❖ **SEMINARS, CONFERENCES AND WORKSHOP**

- 1) One week FACULTY DEVELOPMENT PROGRAM on " Mathematics in Real, Applied and computational domains" organized by Department of Mathematics, School of Science and Humanities, Sathyabhama Institute of Science and Technology, Chennai, 3-8 July 2023.
- 2) Two days online Workshop on “AI Tools for Effective Research” organized by Indian Mathematics Professors Association and Infinity Research & Development Institute Coimbatore, 15&16 July 2023.
- 3) National Board for Higher Mathematics (NBHM) and the Federation of Science Clubs Of Tamil Nadu (FSCT), Organized Research Centre & Department of Mathematics, Scott Christian College ,Nagercoil.
- 4) One day Seminar on “Differential Equations and Fourier Series Some Applications”,

organized by Mar Baselios College of Engineering & Technology, Thiruvananthapuram.

- 5) National Seminar “Discrete Mathematics” Organized by the Department of Mathematics Government College for Women, Thiruvananthapuram, 12-14 November 2019.
- 6) International Conference on “Novel Trends in Pure and Applied mathematics”, Organized by Department of Mathematics, University of Kerala, Kariavattom, 22-24 January 2019.
- 7) National Workshop on “Plagiarism Detection: A Quality Index to Research Integrity”, Organized by Dept. of Library, N.V.K.S.D College of Education jointly with society for the Advancement of Library and Information Sciences (SALIS), Tirunelveli 5th January 2019.
- 8) National Workshop on “Graph Domination and Labeling” Organized by Dept. of Mathematics and Kerala Mathematical Association, St. Mary’s College, Thrissur, 23-25 November 2017.
- 9) National Seminar on “Graph Theory and Its Applications”, Organized by the Post Graduate Dept. of Mathematics, K.K.T.M Govt .College, Pullut, on 15th & 16th November 2017.

1. **WEBINARS**

1. Webinar “A Mathematical Study on the Multi Drug Therapies for HIV infection”, Organized by the Dept. of Mathematics, Pioneer Kumaraswamy College, Nagercoil, 23-24 June 2020.
2. Webinar on Applications of Mathematics in Engineering, Organized by the Department of Science and Humanities, Francies Xavier Engineering College, Tirunelveli , 30-31 July 2020.
3. International Webinar on “Special Functions and Discrete Mathematics”, Organized by the Department of Mathematics, University of Kerala, 02-05 August 2020.

❖ **ROLES AND RESPONSIBILITY**

- ICT Academy of Kerala Programme Coordinator (Tech 4 all women training schedule)
- International Programme conference Programme coordinator
- Quiz Coordinator
- Class Coordinator of Mathematics Club
- Staff Advisor
- Arts and Sports Committee
- Admission Committee
- FDP Program

- SCM Staff Coordinator
- NSS Program