Dr. Seema Varghese

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Associate Professor
Department of Mathematics
Govt. Engineering College
Thrissur-680009, Kerala

Tharakan Villa
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Thrissur-680581, Kerala

PROFESSIONAL EXPERIENCE – TEACHING (Completed 20 years):

- **Associate Professor in Mathematics, Govt Engineering College (since 2nd June 2018).**

- Assistant Professor in Mathematics, Govt. Engineering College (7th June2011 to 1st June 2018)

- Assistant Professor in Mathematics, Panampilly Memorial Govt College, Chalakudy (2nd Sept 2005 to 6th June 2011)

- Lecturer in Mathematics, Govt. Polytechnic College, Kothamangalam (2nd June 2004 to 1st Sept 2005)

- Lecturer in Mathematics, College of Engineering (CAPE), Kidangoor (01st Jan2003 to 1st June 2004)

- Lecturer in Mathematics, Toc-H Institute of Science and Technology, Arakkunnam (23rd Sept2002 to 31st Dec 2002)

- Ad hoc Lecturer in Mathematics, Cochin University of Science and Technology, Kochi (3rd Feb 2001 to 22nd Sept 2002).

PROFESSIONAL EXPERIENCE – RESEARCH

Research Guide

- Govt. Engineering College, Thrissur affiliated to APJ Abdul Kalam Technological University
- Research Guidance: Ongoing – 2

DETAILS OF RESEARCH ACTIVITIES
Area: Graph Theory
 Title of Ph. D Thesis:
STUDIES ON SOME GENERALIZATIONS OF LINE GRAPH AND THE POWER
DOMINATION PROBLEM IN GRAPHS
from Cochin University of Science and Technology, under the guidance of Prof. A. Vijayakumar.

PUBLICATIONS

- Non-Existence of Forbidden subgraph characterization of H-line graphs, *Seema Varghese*, CREAT. MATH. INFORM., Volume 32 (2023), No. 1, Pages 121 – 125.

- Power domination in Mycielskian of spiders*, Seema Varghese, Seethu Varghese, A. Vijayakumar*, AKCE International Journal of Graphs and Combinatorics, June 2022, DOI: 10.1080/09728600.2022.208290

- On Cycle graphs, *Seema Varghese, S.V. Gervacio, A. Vijayakumar*, Asian-European Journal of Mathematics, https://doi.org/10.1142/S1793557123500365

- Some results on star-line graphs, *Seema Varghese*, CREAT. MATH. INFORM., Volume 31 (2022), No. 2, Pages 267 - 271

- On the Planarity of iterated star line graphs, *Seema Varghese, A. Vijayakumar*, AKCE, Int. J. Graphs Comb.,9, No.1(2012)

- Power Domination in honeycomb networks*, D. Ferrero, Seema Varghese, A. Vijayakumar*, Journal of Discrete Mathematical Sciences and Cryptography, Vol 14, (2011), No.6, pp521-529

CONFERENCES
- Power domination in some classes of graphs, EuroComb'11, 2011
- Power domination in triangular grids, ICRTGC-2010
- On H-line graphs, IMS Annual Conference 2009
- Some results on cycle graphs, NSADM-2008

INVITED TALKS
- Power domination and its Variants, IWVGD 2022, Bharata Mata College, Thrikkakara.

POSITIONS HELD
- State Public Information Officer (RTI), Govt Engg. College, Thrissur during 2016-2017
- In charge of EDUSAT, Panampilly Memorial Govt. College, Chalakudy during 2006-2009

Dr Seema Varghese