



Dr.V.Vijayalakshmi

M.Sc., B.Ed., M.Phil., Ph.D.,

Faculty Profile

Name	:	Dr.V. Vijayalakshmi
Qualification	:	M.Sc., B.Ed., M.Phil., Ph.D.
Designation	:	Assistant Professor
Date of Birth	:	26-04-1989
Date of joining	:	08-10-2021
Experience	:	2 Years
Mail Id	:	vvijayalakshmi@gvgvc.ac.in (Institutional) victoryviji7@gmail.com
National/International	:	Springer-1 Scopus-4
No. of citations	:	38
h-index	:	03
i10 index	:	-
Research -id	:	http://ResearchID.co/vijayv89 http://ResearchID.co/rid20983
Scopus-id	:	victoryviji7@gmail.com
Orcid -id	:	https://orcid.org/0000-0002-1104-9956
Vidwan id	:	238454
Research gate	:	vvijayalakshmi@gvgvc.ac.in
Google scholar-id	:	victoryviji7@gmail.com

Guide Recognition

Guide Recognition (21362/CRE 5/2022) from Bharathiar University.

Papers Published [16]

2022-23

[1]C.Paul Shyni, Dr.T.Ramachandran, **V.Vijayalakshmi**, Edge Coloring of Graph using Edge Adjacency Matrix, International journal of Creative Research Thoughts, 11(1), b128-b134, 2023.

2021

[2]G.Mahadevan, **V.Vijayalakshmi**, Selvam Avadayappan, Analysing of complementary perfect hop domination numeral of corona products of graphs, International Journal of Dynamical Systems and Differential Equations, 11(5), 579-593, 2021.

2020

[3] G.Mahadevan, V.Vijayalakshmi, SelvamAvadayappan, Interrogation for Modernistic Conceptualization of Complementary Perfect Hop Domination Number with Various Grid Models, New Trends in Computational Vision and Bio-Inspired Computing, *Springer Lecture notes*, 1219-1227, 2020.

2019

[4]G.Mahadevan, **V.Vijayalakshmi**, Selvam Avadayappan, Clone hop domination number of a graph, Journal of Discrete Mathematical Sciences and Cryptography, 22(5), 719-729, 2019.

[5] G.Mahadevan, **V.Vijayalakshmi**, Selvam Avadayappan, Clone hop domination number of some total and line graphs, International Journal of Applied Engineering Research, 14(8), 72-76, 2019.

2018

[6]G.Mahadevan, **V.Vijayalakshmi**, Extended medium domination number of a Jahangir graph, International Journal of Engineering and Applied Sciences, 13(11), 8843-8846, 2018.

[7]G.Mahadevan, **V.Vijayalakshmi**, Selvam Avadayappan, Non split hop domination number for Cartesian product of two distinct cycles, International Journal of Pure and Applied Mathematics, 119(15), 1219-1233, 2018.

[8]G.Mahadevan, **V.Vijayalakshmi**, Selvam Avadayappan, Non split hop domination number for some mirror graphs and Cartesian product of two distinct paths, Journal of Analysis, 27(2), 475-491, 2018 - *Springer*.

2017

[9]G.Mahadevan, **V.Vijayalakshmi**, C.Sivagnanam, Further results of extended medium domination number of some special types of graphs, International Journal of Engineering Science, Advanced Computing and Bio-Technology, 8(2), 55-74, 2017.

[10] G.Mahadevan, **V.Vijayalakshmi**, C.Sivagnanam, Non split hop domination in graphs, Global Journal of Pure and Applied Mathematics, 13(5), 376-382, 2017.

2016

[11] G.Mahadevan, **V.Vijayalakshmi**, SelvamAvadayappan, Akila, Exact values of the medium domination number of some specialized types of graphs, International Journal of Applied Engineering Research, 11(1), 194-203, 2016.

[12]G.Mahadevan, **V.Vijayalakshmi**, C.Sivagnanam, Medium domination number of $J(m, n)$, F_n and $S^*(B_k, k)$, Journal of Graph Labeling, 2(2), 263-272, 2016.

[13]G.Mahadevan, **V.Vijayalakshmi**, C.Sivagnanam, Some new results on extended medium domination number of few classes of graphs, International Journal of Control Theory and Applications, 9(10), 4241-4248, 2016.

[14]G.Mahadevan, **V.Vijayalakshmi**, C.Sivagnanam, Extended medium domination number of some specialized types of trees and product graphs, Asian Journal of Research in Social Sciences and Humanities, 6(9), 1937-1953, 2016.

2015

[15]G.Mahadevan, **V.Vijayalakshmi**, C.Sivagnanam, Investigation of the medium domination number of some special types of graphs, Aust. J. Basic & Appl. Sci., 9(35), 126-129, 2015.

[16]G.Mahadevan, **V.Vijayalakshmi**, C.Sivagnanam, Extended medium domination number of a graph, International Journal of Applied Engineering Research, 10(92), 355-360, 2015.

Published Abstracts/Papers in Proceedings

- ✓ G. Mahadevan, **V. Vijayalakshmi**, C. Sivagnanam, General result of extended medium domination number of a graph $B(n, n)$, $J(m, n)$ and $C_n \oplus K_{1, n}$, FACT 2016 - Proceedings of 4th National Conference on Frontiers in Applied Sciences and Computer technology, National institute of Technology- Trichy, 4, 269-273, 2016.
- ✓ G. Mahadevan, **V. Vijayalakshmi**, Akila, Some more results on the medium domination number of some special types of graphs, Proceedings of the National Conference on New Horizons in Computational Intelligence and Information Systems, 412 - 412, 2015

Roles and Recognition

- ✓ Fine arts club member – 2023-24
- ✓ Placement cell member - 2022-23
- ✓ Examination committee member - 2021-22
- ✓ College Union member -2021-22

Editorial Board Member

- ✓ Edwin Group Of Journals (since June 2023)

Reviewer

- ✓ Open Journal of Discrete Mathematics

Chair Person

- ✓ Chair Person for 9th 'International Conference on Discrete Mathematics and Mathematical Modeling in Digital Era', March 23rd -25th 2023 in The Gandhigram Rural Institute (Deemed to be University), Gandhigram.

Awards and Recognition

- ✓ **Best Paper Award** in International Conference on Advances in Science, Management and Engineering – “Investigation of Medium Domination number of Special types of Graphs”, Organized by International Organization of Scientific Research and Development , India , 26th December 2015.

Papers presented

- ✓ International Conference on 'Dynamical Systems, Mathematical Modelling and Computing techniques' – “Analysing of Complementary Perfect Hop Domination Numeral of Corona Products of graphs”, Organized by Department of Mathematics, The Gandhigram Rural Institute (Deemed to be University), Gandhigram, 14th – 16th February 2019
- ✓ International Conference on 'Novel Trends in Pure and Applied Mathematics' – “ Close Hop Domination Number of Some Total and Line Graphs”, Organized by Department of Mathematics , University of Kerala, Kariavattom , Thiruvananthapuram, 22nd -24th January 2019.
- ✓ International conference on 'Discrete and Computational Mathematics' – “Clone Hop Domination Number of a Graph” , organized by Department of Mathematics and Ramanujan Centre for Higher Mathematics, Alagappa University, Karaikudi , 20th – 21st December 2018
- ✓ International conference on 'Computational Vision and Bio Inspired Computing' - “Interrogation of Modernistic Conceptualization of Complementary Perfect Hop Domination Number with Various grid models” organized by Inventive Research Organization and RVS Technical Campus , Coimbatore , 29th – 30th November 2018.
- ✓ International Conference on 'Applied Analysis Mathematical Modelling and Computing Techniques' – “Non Split Hop Domination Number for Some Mirror Graphs and Cartesian Product of Two Distinct Paths”, Organized by Department of Mathematics, The Gandhigram Rural Institute (Deemed to be University), Gandhigram, 15th – 17th March 2018
- ✓ International Conference on 'Discrete and Computational Mathematics' – “Extended Medium Domination Number of a Jahangir Graph”, Organized by department of Mathematics, The Gandhigram Rural Institute (Deemed University), Gandhigram, 16th – 17th February 2017.
- ✓ International Conference on 'Computing Paradigms' - “Some new results on Extended Medium Domination Number of Few Classes of Graphs”, Organized by Don Bosco College, Yelagiri Hills and Integrated Intelligent Research, Chennai, 22nd – 24th July 2016.
- ✓ National Conference on 'Frontiers in Applied Sciences and Computer Technology' – “General Result of Extended Medium Domination number of $b(n,n)$, $j(m,n)$, Organized by Department of Mathematics and Department of Computer Applications NIT ,Trichy, 18th – 19th March 2016.
- ✓ National Seminar on 'Recent Advancement on Distance, Domination and Labelling in Graphs' – “Medium Domination Number of $J(m,n)$ and F_n ”, Organized by Department of Mathematics, Madura College, Madurai, 21st – 22nd January 2016.
- ✓ National conference on 'New Horizons in Computational Intelligence and Information Systems' – “Some more results on the Medium Domination number of Some Special types of Graphs”, Organized by Department of

Computer Science and Applications, The Gandhigram Rural Institute (Deemed University), Gandhigram, 17th – 18th December 2015.

Conference / Workshops attended

- ✓ International Workshop on 'Advanced Trends in Computational Mathematics', 4th& 5th August 2023 in Koneru Laskshmaiah Education Foundation (Deemed to be University), Vaddeswaram, Guntur, AP.
- ✓ International Conference on 'Discrete Mathematics and Mathematical Modeling in Digital Era' , March 23rd - 25th 2023 in The Gandhigram Rural Institute (Deemed to be University), Gandhigram.
- ✓ "Recent Trends in Applied Mathematics", National level seminar at St. Antony's college of arts and science for Women, Dindigul on 1st November 2022.
- ✓ "Recent Trends in Applied Mathematics", National level seminar at University VOC College of Engineering, Anna University, Thoothukudi on 6th March 2017.