Basic Details:

- **Name: Dr.S. Dhanalakshmi**
- **Designation**:**Assistant Professor (Sr. G)**
- **PhoneNumber:-8778799519**
- **EmailID:**dhanalas1@srmist.edu.in
- **Area or Subject:**Graph theory
- **Affiliation:**Department of Mathematics, SRM Institute of Science and Technology, Ramapuram.

Educational Details:

Degree, University, Awarded Year

- Ph.D –Mathematics-SRM Institute of Science and Technology, Kattankulathur-2019
- M.Phil – Mathematics– Alagappa University, Karaikudi -2003
- M.Sc- Mathematics – Annamalai University, Chidambaram-2001.

Research Interests: Graph Theory ,Chemical Graph Theory,Rough Set Theory

Publications:

1.S.Dhanalakshmi, N.Parvarthi and R.Arulprakasm, *A study of rough set approximations for a complementary graph*, International journal of scientific and Engineering research, Vol 6,Issue 3,March 2015 ISSN2229-5518

2. S.Dhanalakshmi and N.Parvathi **,** *Lower and upper approximation H-graceful for some classes of graph*s, Global Journal of Pure and Applied Mathematics (GJPAM) ISSN 0973-1768 Volume 12,Number 1 (2016) **(SCOPUS)**

3. S.Dhanalakshmi and N.Parvathi **,** *Minimum spanning tree of a rough graph having weight as trapezoidal fuzzy number*, Global Journal of Pure and Applied Mathematics (GJPAM) Global Journal of Pure and Applied Mathematics, Vol 11, I 1, B 143-E 147(SCOPUS) **(SCOPUS)**

4. S.Dhanalakshmi and N.Parvathi**,** *Optimal transportation using MST algorithms,* International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.77 (2015)

5. S.Dhanalakshmi and N.Parvathi **,** *Prime labeling of rough approximations of some graphs,* Indian Journal of Science and Technology, Vol 10(25), DOI: 10.17485/ijst/2017/v10i25/97915, July 2017 **(WOS)**

6. S.Dhanalakshmi and N.Parvathi **,** *Even Graceful Labeling of Rough Approximations For P_n and Star Related Graphs* International Journal of Pure and Applied Mathematics Volume 114 No. 6 2017, 31 – 40

7. S. Dhanalakshmi and N. Parvathi, *Mean square cordial labeling related to some acyclic graphics and its rough approximations,* Journal of physics:Conf series 1000(2018) 012040 doi:10.1088/1742-6596/1000/1/01204 **(SCOPUS)**

8.S. Dhanalakshmi and N.Parvathi**,** *Mean square cordial labeling related to some cyclic graphs,* Indian journal of Engineering and technology, 7(4.10)(2018) 797 – 800.

9.S. Dhanalakshmi and N.Parvathi**,** *Mean square cordial labeling of some star related,* Journal of physics:Conf series 1000(2018) 012040 doi:10.1088/1742-6596/1377/1/012027 **(SCOPUS)**

10.S.Dhanalakshmi and N.Parvathi**,** *Mean square cordial labeling of some snake graphs,* International Journal of Innovative Technology and Exploring Engineering ISSN:2278-3075,Volume – 8,Issue-9S3,July 2019. **(SCOPUS)**

11.S.Dhanalakshmi **,** *Mean square cordial labeling of shell butterfluy graphs,* International Journal of Mathematics and Computer Science,15(2020), no. 4, 1235–1242

12.S.Dhanalakshmi and N.Parvathi**,** *Mean square cordial labeling of Multiple Shell and Shell Flower Graph,* Advances and Applications in Mathematical Sciences Volume 21, Issue 4, February 2022, Pages 1965-1973 © 2022 Mili Publications, India.

13.S.Dhanalakshmi and S.Thirunavukkarasu**,**Breast Cancer Prediction using Some Machine Learning Models by Dimensionality Reduction of Various Features, Indian Journal of Natural Sciences, Vol.12 ,Issue 70 , February 2022, ISSN: 0976 – 0997

14.S.Vanishree and S.Dhanalakshmi ,On Face Bimagic Mean Mabeling of Duplication of a Path Graph,*Telematique* , Vol.21 , Issue 1 , August 2022, ISSN: 1856-4194,P.No 3262-3267

15.R.Nagarathinami and S.Dhanalakshmi ,Analyzing b-continuity for some inflated graphs, AIP Conference Proceedings **2516**, 210040 (2022); https://doi.org/10.1063/5.0115661 Published Online: 30 November 2022**(SCOPUS)**

16. Dhanalakshmi,R.Nagarathinami and N.Parvathi ,*Mean square cordial labeling of subdivision of some graphs* , AIP Conference Proceedings 2516, 210013 (2022);https://doi.org/10.1063/5.0109630 Published Online: 30 November 2022**(SCOPUS)**

17. S.Vanishree ,S.Dhanalakshmi, *New Results on Face Magic Mean Labeling of Graphs*, Mathematic and Statistics 11(1): 199-205, 2023DOI: 10.13189/ms.2023.110123**(SCOPUS)**

18. S.Vanishree ,S.Dhanalakshmi, *Application Of Edge Bimagic Mean Labeling In Data Security* , Asia Pacific Journal of Mathematics 2023 10:41 **(SCOPUS)**

19.Shenbagadevi,S.Dhanalakshmi, *Computing Zagreb Indices For Propranolol,* Journal of Advanced Zoology,ISSN: 0253-7214,Volume 44 Issue S-8 Year 2023 Page 328:334 2023 10:41 **(WOS)**

20. S.Vanishree ,S.Dhanalakshmi, *Face Bimagic Mean Labeling of Herschel Graphs and Its operations* , Contemporary Mathematics Volume 5 Issue 1|2024| 209**(WOS & SCOPUS)**

Academic Experience:

- Lecturer, Bharathi Arts and Science College kallakurichi,2003-2007.
- Lecturer,Dr.MGRUniversity ,Chennai,2007-2008.
- Assistant professor,SRM IST, Ramapuram,2008 to till date

Other Professional Experience: NIL

Other Details:

Number of Ph.D Students Guided: **01 (SRMIST,Chennai)**

Number of Ph.D Students Guiding: **04 (SRMIST,Chennai)**

Achievements and Awards:

- Completed NPTEL course “Graph theory” with Elite + Silver certificate.
- Completed NPTEL course “Functions of several real variables ” with Elite + Silver certificate.

Memberships:

- Indian Science Congress
- International Association of Engineers