

FACULTY PROFILE TEMPLATE

- ❖ Please mention year of passing (Educational Qualifications)
- ❖ In case of Updating Existing Faculty profiles, please send the new additions in 'Highlighted Form/Text'.

Basic Details:

- **Name:** Dr.S. Dhanalakshmi
- **Designation:** Assistant Professor
- **Phone Number:** -
- **Email ID:** dhanalas1@srmist.edu.in
- **Area or Subject:** Graph theory
- **Affiliation:** Department of Mathematics, SRM Institute of Science and Technology, Ramapuram.

Educational Details:

- **Degree** – M. Sc., M. Phil., Ph. D.
- **Area or Subject** – Mathematics
- **University**
Ph. D. Mathematics– SRM Institute of Science and Technology, Kattankulathur.
M. Phil. Mathematics – 2003, Alagappa University, Karaikudi.
M.Sc. Mathematics – 2001, Annamalai University, Chidambaram.
B.Sc. Mathematics – 1999, T.K.G.A. College, Vriddhachalam, Affiliated to Madras University.

Other Details:

Courses:

- Mathematics I, Mathematics II , Mathematics III
- Probability and Random Processes
- Probability and Queuing Theory
- Numerical Methods
- Discrete Mathematics
- Operations Research
- Calculus of Variations and Non-linear Programming

Research Interests: Graph theory, Rough set theory

Selected Publications:

- with N. Parvathi, Mean square cordial labeling of some snake graphs, International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-8, Issue-9S3, July 2019
- with S.Thirunavukkarasu and N. Parvathi, Mean square cordial labeling of some star related graphs, PMTIA 2019 Journal of Physics: Conference Series 1377 (2019) 012027
IOP Publishing doi:10.1088/1742-6596/1377/1/012027
- with 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
- with N.Parvathi, Mean square cordial labeling related to some cyclic graphs, Indian journal of Engineering and technology, 7(4.10)(2018) 797 – 800.
- With 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
- with 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
- with N.Parvathi , Lower and upper approximation H-graceful for some classes of graphs, Global Journal of Pure and Applied Mathematics (GJPAM) ISSN 0973-1768 Volume 12,Number 1 (2016)
- with N.Parvathi, *Optimal transportation using MST algorithms*, International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.77 (2015)
- with 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

Papers Presented:

- S.Dhanalakshmi, N. Parvathi, Mean square cordial labeling of some star related graphs, PMTIA 2019 Journal of Physics: Conference Series 1377 (2019) 012027 IOP Publishing doi:10.1088/1742-6596/1377/1/012027
- S.Dhanalakshmi, 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
- S.Dhanalakshmi, 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
- S.Dhanalakshmi, N. Parvathi,, Lower and upper approximation H-graceful for some classes of graphs, Global Journal of Pure and Applied Mathematics (GJPAM) ISSN 0973-1768 Volume 12,Number 1 (2016)
- S.Dhanalakshmi, N. Parvathi, 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
- S.Dhanalakshmi, N. Parvathi, International conference on EGovernance and cloud computing services,Dr. MGR educational and research institute,chennai,23-Jul-2015 and 24-Jul-2015.
- S.Dhanalakshmi, N. Parvathi, National conference 'Convergence 2015' ,Bharath university,chennai,20-Mar-2015,21-Mar-2015,

International Conference

- International conference on EGovernance and cloud computing services,Dr. MGR educational and research institute,chennai,23-Jul-2015 and 24-Jul-2015,

National Conference

- National Conference on Progress in Mathematics towards Industrial Applications (PMTIA – 2019), SRM Institute of Science and Technology, Ramapuram, 27-Sep-2019, 28-Sep-2019.
- 2nd National Conference on Recent Trends in Fuzzy Mathematics and its Applications, NCRTFMA 2018, SRM Institute of Science and Technology, Ramapuram, 26-Oct-2018, 27-Oct-2018.
- 10th National Conference on Mathematical Techniques and its Applications NCMTA 2018, SRM Institute of Science and Technology, Kattankulathur, 05-Jan-2018, 06-Jan-2018.
- National Conference on Recent Trends in Fuzzy Mathematics and its Applications NCRTFMA 2017, SRM University, Ramapuram, 03-Nov-2017, 04-Nov-2017.
- National Conference on Recent Trends in Mathematics and its Applications NCRTMA'17, SRM University, Vadapalani, 24-Feb-2017, 25-Feb-2017.
- National Conference on Mathematical Techniques and its Applications NCMTA 2017, SRM University, Kattankulathur, 27-Jan-2017, 28-Jan-2017.
- National Conference on Recent Trends in Mathematics and its Applications NCRTMA'16, SRM University, Vadapalani, 26-Feb-2016, 27-Feb-2016.

- National Conference on Mathematical Techniques and its Applications NCMTA 2015, SRM University, Kattankulathur, 02-Jan-2015, 03-Jan-2015.
- National conference 'Convergence 2015' ,Bharath university,chennai,20-Mar-2015,21-Mar-2015,
- National Conference on Mathematical Techniques and its Applications NCMTA 2014, SRM University, Kattankulathur, 06-Jan-2014, 07-Jan-2014.

Working Papers:

- with N.Parvathi, Mean square cordial labeling of some pentagonal graphs.

WorkinProgress:

- with N.Parvathi, preparing a proposal for funded project in rough sets.

Academic Experience:

- Lecturer,Bharathi arts and science college kallakurichi,2003-2007.
- Lecturer,Dr.MGRUniversity ,Chennai,2007-2008.
- Assistant professor,(Sr.G)SRM IST, Ramapuram,2008 to till date

Other Professional Experience:-

Workshops /Seminars/Conferences:-

- Workshop on Differential Equations and its Applications (WDEA – 2019), SRM Institute of Science and Technology, Ramapuram, 07-Mar-2019.
- Workshop on Fluid Dynamics and its Applications (WFDA – 2018), SRM Institute of Science and Technology, Ramapuram, 12-Apr-2018.
- Workshop on Graph Theory and its Applications (WGTA – 2016), SRM University, Ramapuram, 12-Apr-2016.
- National workshop on Role of Mathematics in Bio-Modeling, B. S. Abdur Rahman University, Vandalur, Chennai, 01-Aug-2015, 01-Aug-2015.

Achievements and Awards: - NIL

Memberships:

- Indian Science Congress, 2011

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