



DAYANANDA SAGAR ACADEMY OF TECHNOLOGY AND MANAGEMENT
22 Mile, B.M Kaval, Udayapura, Kanakapura Road, Bangalore-560082.

DEPARTMENT OF MATHEMATICS

Faculty Name	Dr. K. A. Vidya	
Designation	Assistant Professor	
Educational Qualification	M. Sc., M. Phil., Ph. D.	
Experience in Years	9.5	
Area of Interest	Graph Theory	
Email ID	vidya.mnj@gmail.com	

Educational Details

- Ph. D. –Graph Theory, Bangalore University
- M. Sc (Mathematics)- Graph Theory, Cochin University of Science and Technology
- B. Sc (Mathematics)- Calicut University

Personal Details

- Date of Birth: 08/12/1978
- Hobbies: Puzzle solving, Stitching
- Languages Known: English, Hindi, Malayalam, and Kannada.

Professional Experience

- Worked as Assistant Professor at Dayananda Sagar Academy of Technology and Management from July 2015 till date.
- Worked as Associate Professor at AMC Engineering college from July 2012 to July 2015.
- Worked as Assistant Professor at T. John Institute of Technology from July 2010 to July 2012.
- Worked as Lecturer at Sahakari Vidya Kendra Polytechnic from Aug 2008 to June 2010.

Publications

International Journals:

- B. Chaluvvaraju, N. D. Soner and K. A. Vidya, **Bi-efficient domination in graphs**, *Proceedings of Jangjeon Mathematical Society*, Korea, 10(2): 131–137, 2007.
- B. Chaluvvaraju, S. C. Sigarkanti and K. A. Vidya, **Maximal paired domination**, *International Journal of Mathematics and Computation*, 4(S09): 99–104, 2009.
- B. Chaluvvaraju, M. Chellali and K. A. Vidya, **Perfect k-domination in graphs**, *Australasian Journal of Combinatorics*, 48:175–184, 2010.
- B. Chaluvvaraju, R. Y. Denis and K. A. Vidya, **Smallest and largest binary sums of a graph**, *South East Asian Journal of Math. and Math. Sc*, 8(2):7–15, 2010.
- B. Chaluvvaraju and K. A. Vidya, **Bounds on perfect k-domination in trees: An algorithmic**

approach, *Opuscula Mathematica*, 32(4):707-714, 2012.

- B. Chaluvvaraju and K. A. Vidya, **Generalized perfect domination in graphs**, *Journal of combinatorial optimization*, (Springer), 27:292-301, 2014.
- E. Sampath Kumar, S. V. Roopa, K. A. Vidya, M. A. Sriraj, **Energy of partitioned graph using L-matrix**, *Proceedings of Jangjeon Mathematical Society*, Korea, 18(4): 473–493, 2015.
- S. V. Roopa, K. A. Vidya, M. A. Sriraj “**Partition energy of amalgamation of complete graphs and their generalized complements**”, *Indian J. Discrete Math.*, Vol. 2, No. 1, pp. 18 – 36, 2017.

National Journals:

- B. Chaluvvaraju and K. A. Vidya, **Perfect dominating set graph of a graph G**, *Advances and Applications in Discrete Mathematics*, 2:49–57, 2008.

Conferences:

- K. A. Vidya, **An Introduction to Domination in Fullerene Graphs**, *Proceedings of National conference on “Role of Mechanical Engineering and computational science for a sustainable future”*, ISBN: 978-93-5254-129-4, 192-195, 2016.
- S. V. Roopa, K. A. Vidya, **Partition energy of graphs constructed using complete graph and Cycles**, *Proceedings of National conference on “Advances in Mechanical Engineering and Applied sciences”*, ISBN: 978-93-84935-77-1, 2016.

Papers presented at Conferences

- **Bi-efficient domination in graphs** at Bangalore University during 19th International Conference of Jangjeon Mathematical society, Korea (Feb 2007)
- **Perfect dominating set graph** at Christ University during National Conference on Emerging trends in Fluid Mechanics and Graph Theory (Feb 2010)
- **Multiple Perfect domination in graphs** at NCRTDM at Marghosious college, Nazareth(Dec 2010)
- **Bi-efficient domination in trees using dynamic programming techniques** at Christ University during National Conference on Emerging trends in Fluid Mechanics and Graph Theory (Feb 2012)
- **Domination in Fullerene Graphs** at Christ University during National Conference on Emerging trends in Graph Theory (Feb 2013)
- **On computational complexity of multiple perfect domination in graphs** at Dharwad University during International conference on Discrete Mathematics(June 2013)
- **An Introduction to Domination in Fullerene Graphs** at Dayananda Sagar College of Engineering, Bangalore during National conference on Role of Mechanical Engineering and computational science for a sustainable future (September 2015).
- **On Computational complexity of bi-efficient domination in graphs** at AMC Engineering

college, Bangalore during National conference on recent advances in Applied Sciences (April 2016)

Faculty Development Activity

Conferences/ Workshops/ FDP Attended

- **National Conference on Applications of Graph Theory** at R.V.C.E, Bangalore (April 2007)
- **International conference on Recent Developments in Combinatorics and Graph theory** at Kalasalingam University (June 2007)
- **Symposium on Mathematics** at Bangalore University (May 2009)
- **24th Annual Conference of Ramanujan Mathematical Society** at Indian Statistical Institute, Bangalore (April 2010)
- **School on Graph algorithms** at Karnatak University, Dharwad (March 2011)
- **Open Lecture Series on Advanced Science and Technology** at PES Institute of Technology. (November 2012)
- Faculty development Program on “**Creative Thinking on intellectual property generation**” at AMC Engineering college (March 2014).
- **International conference on Discrete Mathematics & Graph Theory Day-XII** at SIT, Tumkur (June 2016)
- **Three days workshop on NBA** at Dayananda Sagar Academy of Technology and Management (December 2017)

Professional Membership

- Member of Academy of Discrete Mathematics and Applications (**ADMA**), India.

Contact Details

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My Vision

- To Excel in life with honesty, commitment and love.