



Dayananda Sagar Academy of Technology & Management

(Autonomous Institute under VTU)

Affiliated to **VTU**
Approved by **AICTE**
Accredited by **NAAC** with **A+** Grade
6 Programs Accredited by **NBA**
(CSE, ISE, ECE, EEE, MECH, CV)

Faculty Name	Dr. K. A. Vidya	
Academic Designation	ASSISTANT PROFESSOR	
Educational Qualification	M.Sc., M.Phil., Ph. D	
Experience in Teaching & Industry	<div style="border: 1px solid black; display: inline-block; padding: 2px;">17 Years</div> 5-Months	
Date of Joining	30-07-2015	
Official Email ID	drvidya@dsatm.edu.in	
Employee ID	180317	

Educational Details

FORMAL MODE OF EDUCATION				
Degree	Board/Institution	Mode of education	Year Of Passing	Percentage of Marks
Ph. D. (Mathematics)	Bangalore University	Full-Time	2012	Specialization-Graph Theory
M. Phil	Madurai Kamaraj University	Part-Time	2004	55 %
M. Sc.	Cochin University of Science & Technology	Full-Time	2001	83.5%
B. Sc.	Calicut University (Vimala College, Thrissur)	Full-Time	1999	93.6%
Pre-Degree	Calicut University (Little Flower College, Guruvayoor)	Full-Time	1996	80 %
SSLC	Kerala State Board	Full-Time	1994	86.5%

Professional Experience

Description	Board/Institution	Experience
Assistant professor	Dayananda Sagar Academy of Technology and Management	10 years 5 Months
Assistant professor	AMC Engineering college	3 Years
Assistant professor	T. John Institute of Technology	2 Years
Lecturer	Sahakari Vidya Kendra Polytechnic	2 Years

Publications

1. 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(Scopus-Q3)
2. B. Chaluvvaraju and K. A. Vidya, **Perfect dominating set graph of a graph G**, *Advances and Applications in Discrete Mathematics*, 2:49–57, 2008.(WOS)
3. B. Chaluvvaraju, S. C. Sigarkanti and K. A. Vidya, **Maximal paired domination**, *International Journal of Mathematics and Computation*, 4(S09): 99–104, 2009.
4. B. Chaluvvaraju, M. Chellali and K. A. Vidya, **Perfect k-domination in graphs**, *Australasian Journal of Combinatorics*, 48:175–184, 2010.(Scopus-Q2)
5. 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.(UGC)
6. B. Chaluvvaraju and K. A. Vidya, **Bounds on perfect k-domination in trees: An algorithmic approach**, *Opuscula Mathematica*, 32(4):707-714, 2012.(Scopus-Q2)
7. B. Chaluvvaraju and K. A. Vidya, **Generalized perfect domination in graphs**, *Journal of combinatorial optimization*, (Springer-Q2, Scopus), 27:292-301, 2014.
8. E. Sampath kumar, S. V. Roopa, K. A. Vidya, M. A. Sriraj, Partition energy of a graph, *Proceedings of Jangjeon Mathematical Society*, Korea, 18(4): 473–493, 2015.(Scopus-Q3)
9. 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.
10. 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.

11. S. V. Roopa, K. A. Vidya, M. A. Sriraj **Partition energy of amalgamation of complete graphs and their generalized complements**, *Indian Journal of Discrete Mathematics*, ISSN:24555819, Vol. 2(1), 18 – 36, 2017.
12. E. Sampath kumar, S. V. Roopa, K. A. Vidya, M. A. Sriraj, **Partition energy of complete product of circulant graphs and some new class of graphs**, *Advanced Studies in Contemporary Mathematics*, Korea, Volume 28, No. 2, pp 2018.(Scopus)
13. E. Sampath kumar, S. V. Roopa, K. A. Vidya, M. A. Sriraj, **Partition Laplacian energy of a graph**, *Palestine Journal of Mathematics*, Vol. 8(1),272–284(2018) (Scopus)
14. K. Venugopal, K. A. Vidya, **Multiple intruder locating dominating sets**, *International Journal of Scientific Research in Mathematical and Statistical Sciences* Vol.6(2), .394-398, April (2019)(UGC)
15. E. Sampath kumar, S. V. Roopa, K. A. Vidya, M. A. Sriraj, **Partition energy of some trees and their generalized complements**, *TWMS Journal OF Applied and Engineering Mathematics*, Volume 10(2),521-531,2020(Scopus)
16. K. Venugopal, K. A. Vidya, **On Multiple intruder locating domination in Infinite grids**, *Advances and applications in Discrete Mathematics*, Volume 24(1), 1-12,2020.(WOS)
17. K. Venugopal, K. A. Vidya, **Multiple intruder locating domination in graphs: An algorithmic approach**, *Communications in Mathematics and applications*, ISSN:0975-8607, Volume 11, No:2, August 2020, Page No:259-269.(WOS)
18. K. Venugopal, K. A. Vidya, **Multiple intruder locating domination in chordal and bipartite graphs**, *Advances and applications in Mathematical Sciences*, ISSN: 0974-6803, Volume 21, No:10, August 2022, Page No:5731-5742.(WOS)
19. K. Venugopal, K. A. Vidya, **On approximation of multiple intruder locating domination number of a graph**. *Advances and Applications in Discrete Mathematics*, ISSN: 0974-1658, Volume 41, No:1, January 2024, Page No:77-96.(WOS) <https://doi.org/10.17654/0974165824005>
20. K. Venugopal, K. A. Vidya, **Efficient domination problem: a quantum computing approach**, *The journal of Supercomputing* , ISSN: Volume 81:1461, October 2025(Scopus-Q2)

Conference Attended

Capacity Building	International	National	Communication & Collaboration
Conference	6	9	9-Presentations
Workshop		6	Participation
Symposium			
Seminar		6	Participation
FDP		8	Participation
Webinar		4	Participation
Invited Talks		4	
STC			Participation

Awards

- ❖ Secured 2nd rank for M.Sc. from Cochin University of Science and Technology.
- ❖ Have passed National Eligibility Test (NET) for Lectureship.
- ❖ Got Junior Research Fellowship (JRF) from CSIR.
- ❖ Received 'Best teacher Award' in 2014 from AMC Engineering college

Academic Activity

Teaching - Courses Taught:

For UG (B.Tech/B.E):

Ordinary and Partial Differential Equations
Vector Calculus
Linear Algebra
Laplace Transforms
Advanced Numerical Analysis
Discrete Mathematics
Mathematics for Machine Learning
Algorithmic Game Theory

For PG (M.Tech)

Advanced Mathematics
Linear Algebra

Contact Details

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