

## STAFF PROFILE



- 1) Name: Dr. K. Angaleeswari  
 2) Designation: Assistant Professor  
 3) Department: Mathematics  
 4) Qualifications: M.Sc., M.Phil., Ph.D.,

Academic:

Additional:

- 5) Experience (in years):      Teaching: 19years                      Research: 16 years  
 6) Area of Specialization: Graph Theory, Fuzzy Graphs and its application  
 7) Contact:      E-mail: aadeshangal@gmail.com                      Mobile Number: 9150723913  
 8) Grants Received (Conference/Workshop/Seminar/any other):

Event Title	Agency	Fund Received	Date
-	-	-	-

- 9) Project Completed:

Project Title	Agency	Fund Received	Duration
-	-	-	-

- 10) Project ongoing :

Project Title	Agency	Fund Received	Duration
-	-	-	-

- 11) Research Guidance:

Programme	No. of Scholars	
	Completed	Pursuing
Ph. D.	-	3
M. Phil.	12	NIL

- 12) Research Publications:

	International	National
Total Number of Publications	15	8

List of International Publications:

Sl. No	National/ International	Title of the Article	Name of the Journal	Issue	Year	Page No.
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1.	International	Morphisms of State Machine	International Journal of Physical Science (ISSN 0970-9150)	Vol 19(2) M	2007	369-376
2.	International	k-extensibility in graph with unique maximum independent set.	Global Journal of Pure and Applied Mathematics (ISSN 0973-1768)	Vol 9, No 6	2013	567-574
3.	International	k-extendability in Graphs	International Journal of Pure and Applied Mathematics (ISSN 1311-8080)	Vol 101, No 5	2015	801-809
4.	International	Trivially Extendable Graphs	Turkin World Mathematical Society Journal of Applied and Engineering Mathematics (ISSN 2146-1147)	Vol 5, No 2	2015	307-313
5.	International	Trivially Extendable Graphs-I	SSRG International Journal of Mathematics Trends and Technology (ISSN 2231-5373)	Special Issue	2015	104-113
6.	International	Weakly Well Covered Graphs	International Journal of Applied Engineering Research, (ISSN 0973-4562)	Vol. 11 No.1	2016	144-148
7.	International	Weakly k-extendable Graphs	International Journal of Pure and Applied Mathematics (ISSN 1311-8080)	Vol. 109 No.6	2016	35-40
8.	International	Graph Operations on Weakly Well Covered Graphs	Bulletin of the International Mathematical Virtual Institute (ISSN(p) 2303-4874) (ISSN(o) 2303-4955)	Vol. 7	2017	445-450
9.	International	Study on k-extensibility and weakly k-extensibility in Harary Graphs ( $H_{m,n}$ ) for specific values of $m$ and $n$	International Journal of mathematics Trends and Technology(IJMTT) (ISSN 2231-5373)	Special issue NC CFQ ET	May2018	101-108
10.	International	k - Extensibility	Journal of Applied Science and	Vol		

		and Weakly $k$ - Extensibility for Harary graphs ( $H_{m,n}$ ) □ values of $m$ and $n$ applied to SocialNetwork Analysis	Computation (JASC) ISSN 1076-5131	4	April 2019	170-179
11.	International	$k$ – Extensibility and Weakly $k$ – Extensibility for some special types of graphs	Advances and Applications in Mathematical Sciences ISSN 0974-6803		Accepted 2020	
12.	International	<i>Theoretical Analysis of Amperometric responsetowards PPO Based rotating disk Bielectrodes: Taylors series and Hyperbolic function method</i>	International Journal of Electrochemical Science ISSN 1452-3981		Accepted 2022	
13.	International	Analytical and Numerical solutions of nonlinear heat diffusion method for the thermal energy storage problem	AIP Publishing Conference proceedings		Accepted 2023	
14.	International	Secure point set domination and rigid secure point set domination in graphs	Communications in Combinatorics and Optimization ISSN 2538-2128		Accepted 2023	
15.	International	Boundary Domination and Boundary Chromatic number in graphs	Applied Mathematics and Computing ISSN 18735649		Accepted 2023	

List of National Publications:

Sl. No.	National/ International	Title of the Paper	Conference Title with Publishers	Year & Page No
1.	National	Study of Morphism of State Machine through Graph	Mathematics, Computing and Modeling, Allied Publishers Pvt.Ltd. Chennai	July 2007, pp 85-90.
2.	National	Modeling of Parallel Composite Finite State Machine	National Conference on Discrete Mathematics and its Applications,	Sep 2007, pp 195-203.
3.	National	Algebraic Representation for Finite State Machines.	National Conference on Discrete Mathematics and its Applications,	Sep 2007, pp 166-172.
4.	National	Morphisms of Parallel Composite Finite State Machine.	Mathematical and Computational Models, Narosa Publishers House Pvt.Ltd. Chennai	2008, pp 406-417.
5.	National	k-extendable Graphs and Weakly k-extendable Graphs.	Journal of Modern Science (ISSN 2277-7628)	May 2014 PP 61-70
6.	National	$k$ - Extensibility and Weakly $k$ -Extensibility in Generalized Petersen graphs	National Conference on Modern Mathematics&It's Application, Madurai.	January 2018, pp 13-14
7.	National	Study on $k$ - Extensibility and Weakly $k$ -Extensibility in Harary graph ( $H_{m,n}$ ) for specific values of $m$ and $n$	National Conference on Applications of Chemical graph, Fluid dynamics and Queueing theory in Science, Engineering and Technology, Chennai.	March 2018, pp9
8.	National	Note on $k$ - Extensibility and Weakly $k$ -Extensibility for some special types of graphs	State Level Seminar on Emerging Trends in Higher Education in India (Multi Disciplinary), Madurai.	April 2018, pp 22

13) Chapters in Books: 1

Chapter 16-*Weakly Well Covered Graphs* published in book “*Advanced Engineering Research and Applications-volume-II*“ Editor-Hongseok Choi with Research India Publication, 2017; pp 225-234.

- 14) Other Publications (Proceedings): 10
- 15) Books Published: NIL
- 16) Presentation in Seminar / Conference:  
International: 12  
National: 13
- 17) Participation in Conference: 15
- 18) Participation in Seminar: 25
- 19) Participation in Workshop: 3
- 20) Participation in Orientation Programme/ Induction Programme/ Short term Courses: 4
- 21) Participation in Faculty Development Programme: NIL
- 22) Conference/ Seminar/ Workshop Organized: NIL
- 23) Invited Speaker/ Session Chair – Conference/ Seminar/ Workshop: 2
- 24) Other Co-curricular / Administrative Responsibilities: NIL
- 25) Member in Board of Studies: Alumni
- 26) Editorial/ Review Board Member: NIL
- 27) Membership in Professional Bodies: ADMA
- 28) Awards received: YES

Received “**OUTSTANDING WOMAN IN SCIENCE**” for the contribution and achievement in the field of Mathematics on 3<sup>rd</sup> march 2018 from Venus International Foundation .

29) Consultancy: NIL

30) Patents: NIL

31) Any other information: 1<sup>st</sup> Rank in M.Sc., Mathematics and received MaveeranSundaralingam endowment Scholarship at MKU in 2004.

\* Note: Please provide the total Numbers and details for each metrics