


## FACULTY PROFILE

<b>Name of Teaching Staff / RMK ID</b>	Dr.A.ELUMALAI / T1113						
<b>Designation</b>	Professor						
<b>Department</b>	Science and Humanities						
<b>Date of Joining the Institution</b>	03.05.2023 (Regular)						
<b>Qualifications</b>	M.Sc., (Mathematics)	M.Phil., (Mathematics)	Ph.D. (Mathematics)				
<b>Total Experience</b>	Overall: 27Years 3 Months			in RMK: 07 Months			
<b>Papers Published in Journal</b>	Overall: 27			After Joining RMK: -			
<b>List of Papers Published</b>	Sl.No.	Author(s)	Title of Papers	Year	Name of the Journal	Volume No.	Page No.
	1.	A.Elumalai and G.Sethuraman	On Graceful Graphs	Sep. 2001	Indian J.Pure and Appl.Math.	32(9)	1283-1296
	2.	A.Elumalai and G.Sethuraman	Gracefulness of cycle with parallel Pk-chords	Feb. 2005	The Australasian Journal of Combinatorics.	32	205-211
	3.	A.Elumalai and G.Sethuraman	Packing of any set of Graphs into a Graceful / Harmonious,Elegant Labeling	July 2005	ARS Combinatoria.	76	297-301
	4.	A.Elumalai and G.Sethuraman	Cordialness of a cycle with parallel Pk-chords and multiple subdivision of graphs	Oct. 2007	ARS Combinatoria	85	85-96
	5.	A.Elumalai and G.Sethuraman	Gracefulness of union of a cycle with parallel chords and complete bipartite graphs or paths	April 2009	Journal of Discrete Mathematical Science and Cryptography.	12 #2	245-252

6.	A.Elumalai and G.Sethuraman	Elegant Labelled Graphs	Dec. 2010	Journal of Informatics and Mathematical Science.	2 #1	45-49
7.	A.Elumalai and G.Sethuraman	Gracefulness of union of a cycle with parallel $P_k$ -chords and parallel $P_k$ -chords of different length.	April 2012	ARS Combinatoria	104	143-148
8.	A.Elumalai and G.Sethuraman	Pendant edge extension of cycle with parallel chords is cordial	Dec. 2013	International Journal of Information Science and Computer Mathematics.	7	29-34
9.	A.Elumalai	Cycle with parallel chords of pendant edge extension is graceful.	June 2014	Journal of Communications in Mathematics and Applications	10	1-6
10.	A.Elumalai and M.Karthikeyan	The middle edge dominating graph of prime cycles	Dec. 2014	Journal of Annals of pure and Applied Mathematics	8 #2	207-210
11.	A.Elumalai and L.Girija	Edge magic total labeling of cycle $C_n$ with $P_3$ -chords	Dec. 2014	Journal of Annals of pure and Applied Mathematics	8 #2	175-181
12.	A.Elumalai and A.Anand Empremnath	Gracefulness of some super graphs of $KC_4$ - snake.	Jan. 2015	International Journal of Fuzzy Mathematical Archive.	7	91-96
13.	A.Elumalai and A.Anand Empremnath	Graceful labeling of arbitrary Super subdivision of grid graph and cyclic snake.	Mar. 2015	International Journal of Scientific and Engineering Research.	6 #3	1-5
14.	A.Elumalai and M.Karthikeyan	Edge domination number of jump graph.	Mar. 2015	International Journal of Scientific and Engineering	6 #3	100-102

					Research.		
15	A.Elumalai and L.Girija	A super edge antimagic total labeling of the cycle $C_n$ with $P_3$ chords.	Mar.. 2015	International Journal of Scientific and Engineering Research.	6 #3	97-99	
16	A.Elumalai and A.Anand Empremnath	Arbitrary contract super subdivision of paths and cycles are graceful	Aug. 2015	International Journal of Mathematical Analysis	9 #29	1431-1438	
17	A.Elumalai and A.Anand Empremnath	Gracefulness of a cycle with zigzag chords.	Sep. 2015	International Journal of Pure and Applied Mathematics.	101 #5	629-635	
18	A.Elumalai and M.Karthikeyan	Inverse domination number of jump graph	Oct. 2015	International Journal of Pure and Applied Mathematics	103 #3	477-483	
19.	A.Elumalai and L.Girija	Super edge anti-magic vertex labeling and super edge anti-magic total labeling of a cycle with zig-zag chords	Nov. 2015	International Journal of Pure and Applied Mathematics	105 #1	01-06	
20.	A.Elumalai and M.Karthikeyan	The Middle Edge domination of jump graph	Mar. 2016	Global Journal of Pure and Applied Mathematics	12 #3	309-312	
21.	A.Elumalai and A.Anand Empremnath	Every Cycle with chord hamiltonian path is Harmonious and Elegant	April 2016	International Journal of Advanced Engineering Technology.	7 #2	01-04	
22	A.Elumalai and L.Girija	Strong Edge Magic labeling of the cycle $C_n$ with $P_3$ chords.	July 2016	International Journal of Pure and Applied Mathematics	108 #3	495-502	
23	A.Elumalai and M.Karthikeyan	Total Co-independent domination of jump graph	Oct. 2016	International Journal of Pure and Applied Mathematics	110 #1	43-48	

	24	A.Elumalai and M.Karthikeyan et.al	Strategic deployment and scheduling for facility location problem using domination graph in wireless sensor networks	Jan 2018	Asia Life sciences	27 #1	93-106
	25.	A.Elumalai and L.Girija	Magic and Antimagic labelling of m copies of Flower Snark and related graphs.	Feb. 2019	Bulletin of the International Journal of the Mathematical Virtual Institute.	# 9	415-426
	26	A.Elumalai and M.Karthikeyan	Inverse Domination Number of One Vertex union Of Cycles, Complete Bipartite graph and one edge union of Cycles.	April 2019	International Journal of Mathematical Archive.	75 #3	245-252
	27	A.Elumalai	Every n-cycle with Parallel Chords of Pendant Edge Extension is Even Graceful	Aug 2022	IOSR Journals	18,#4	42-45

<b>Papers Presented in Conferences</b>	Overall: 11		After Joining RMK: -

<b>List of Papers Presented in Conferences</b>	Sl.No.	Autor(s)	Title of Papers	Name of Conference Proceedings, and year of Publication	PageNo.
	1.	A.Elumalai	Gracefulness of one edge union of shell graphs	International Conference on Mathematics and Computer Science, March 2007.	58-60
	2.	A.Elumalai	Gracefulness of union of a cycle with parallel chords and stars/paths.	National Conference on Applied Mathematics, January 2008.	05-10
	3.	A.Elumalai	Cycle with parallel Pk-chords of different length is graceful	International Conference on Mathematics and Computer Science, July 2008	225-230
	4.	A.Elumalai and A.Anand Ephremnath	Gracefulness of a cycle with zigzag chords	International Conference on mathematical and Computer Engineering, ICMCE 2013.	898-905

	5.	A.Elumalai and A.Anand Ephremnath	Arbitrary contract super subdivision of paths and cycles are graceful	International Conference on Mathematics and its Applications, December(15-17) 2014	801-808
	6.	A.Elumalai and M.Karthikeyan	One vertex union of cycles, bipartite graphs and One edge union of cycles is domination.	International Conference on Mathematical Science, ICMS 2014.	926-927
	7.	A.Elumalai and L.Girija	Super edge anti-magic vertex labeling of the cycle $C_n$ with $P_3$ chords	National Conference on Mathematics and Computer Applications, January (12-13) 2015.	94-99
	8.	A.Elumalai and A.Anand Ephremnath	Gracefulness of stem lotus graphs	National Conference on Mathematics and Computer Applications, January (12-13) 2015.	07-10
	9.	A.Elumalai and M.Karthikeyan	The middle edge domination of complete bipartite graphs.	International Conference on Mathematical Methods and Computation, ICMMC 2015.	521-523
	10.	A.Elumalai and L.Girija	Edge magic total labeling and strong edge magic labeling of the cycle $C_n$ with $(n-3)$ zigzag chords	International Conference on Mathematical Methods and Computation, ICMMC 2015.	448-450
	11.	A.Elumalai	The Bat Dragon Graph $B_n(M)$ is Graceful	International Conference on Recent Developments in Applied Sciences, ICRDAS - 2022	21
<b>Ph.Ds / Projects Guided</b>	Ph.Ds Guided : 3		Student Projects Guided: NIL		
<b>Books Published :</b>	Count : 2				
	List : Engineering Mathematics Textbooks 1 & 2				
<b>Patents</b>	Published Count: -		Granted Count: NIL		

	List :
<b>Professional Memberships</b>	Count : 3
	List : 1. The Indian Society for Technical Education (ISTE) 2. International Association of Engineers (IAENG) 3. Indian Science Congress Association (ISCA)
<b>Consultancy Projects Completed</b>	Count :-
<b>Awards Received</b>	Count :-
	List :
<b>Research grants Received</b>	NIL
<b>Orchid Link / ID</b>	ID: <a href="https://orcid.org/0000-0002-5021-4563">https://orcid.org/0000-0002-5021-4563</a>
<b>Google Scholar Link / ID</b>	
<b>Vidwan Link / ID</b>	
<b>Research Gate Link / ID</b>	
<b>Scopus Link / ID</b>	ID: 7801316682