# STAFF PROFILE FOR WEBSITE



- 1. Name of the Faculty with qualification: Dr. A. AROKIA LANCY
- 2. Designation: Assistant Professor
- 3. E-mail ID : <u>aarokia.lancy@gmail.com</u>

4. Teaching Experience:	UG: 16 years	PG: 7 years
5. Specialization: Topology, Graph Theory		
6. Research Experience: 7 years		
7. M. Phil :(In numbers)	Produced:1	Ongoing :nil
8. Ph. D Produced:	Produced: 4	Ongoing :4

# 9. Membership in Professional Bodies: Vibha(Individual Registration) ID 30925

# **10. Publications:**

S.No	Title	Journal Name	Volume (issue), Year.	UGC – CARE	ISSN.NO	Impact Factor
			Page No			1 40001
1	Exploring Brooks' Theorem and Johan Coloring in Various Graphs	International Journal of Creative Research Thoughts	12(2),2024,888 -896	UGC Care	2320-2882	7.97
2	Working On Graph Coloring	International Journal of Research and Analytical Reviews	10,1/507,297- 300	UGC Approved	E-ISSN 2348- 1269, P- ISSN 2349-5138	8.017
3	A Mathematical Model for Estimating Intelligence Quotient of Mathematics Students Post COVID Scenario	Indian Journal of Natural Sciences	14(77), 55475- 55479	Web of Science	ISSN 0976-0997	
4	Hyper soft beta Closed Sets and Hyper soft alpha open sets in Hypersoft Topological Spaces	International Journal of Creative Research Thoughts	12(2),2024,619 -625	UGC Care	2320-2882	7.97
5	Johan Coloring of Network Graphs	Indian Journal of Natural Sciences	14(80),2023	Web of Science	ISSN 0976-0997	
6	Super Connection and Hyper Connection of Graphs	International Journal of Research and Analytical Reviews	10,1/102,2023, 264-273	UGC Approved	E-ISSN: 2348- 1269, P- ISSN: 2349-5138	7.17
7	Edge- Connectivity in South Indian Traditional Rangoli	International Journal of Research and Analytical Reviews	10(1),2023,148 -155	UGC Approved	E-ISSN 2348- 1269, P- ISSN 2349- 5138	7.17

8	Near Plithogenic Hypersoft Topological Spaces	Infokara Research Journal	10(90),2021,99 -106	UGC Group A	ISSN :1021- 9056	5.3
9	Grundy Colouring And B-Colouring for Shadow And Splitting Graph Of Star And Comb Graph	Journal of Information and Computationa I Science	10(1), 2019, 805-817	UGC Approved	ISSN: 1548-7741	
10	A Chromatic Core Subgraph Of Product of Graph Which Admits Johan Coloring	Journal of Information and Computationa I Science	10(10), 2019 37 – 42	UGC Approved	ISSN: 1548-7741	
11	Vague Soft Regular Open Sets in Vague Soft Topological Spaces	Infokara Journal	8(10), 2019,116-126	UGC Group A	ISSN: 1021-9056	5.3
12	Decision Making Problem using Vague soft expert set in Risk Management	Infokara Journal	8(10), 2019	UGC Group A	ISSN: 1021-9056	5.3
13	Cycle Related Vertex Odd and Even Divisor Cordial Labeling for some Special Graphs	International Journal of Scientific Development and Research	4(3), 2019,449-460.	UGC Approved	ISSN: 2455-2631	4.396
14	A Chromatic Core Subgraph Of Product Of Graph Which Admits Johan Coloring	Journal of Information and Computationa I Science	10(10) 2020, 37 – 42	Group -II	1548-7741	6.2
15	On Chromatic Core Subgraph of Corona	Compliance Engineering Journal	11(2) ,2020, 9 – 13	Group -II.	0898-3577	6.2

	Graphs And Join graphs Which Admits Johan Coloring					
16	Grundy Colouring And B-Colouring for Shadow And Splitting Graph of Star And Comb Graph	Journal of Information and Computationa I Science	10(1), 2020, 805-817	Group -II	1548- 7741	6.2
17	On Johan Chromatic Core Subgraph of Star Related Graphs And their Product of Graphs	International web conference on smart engineering Technologies 2020, Ramco Institute of Technology		(Conference Proceeding)	ISBN NO: 978-93- 5407-648	
18	Conducive study on generalized sets in Neutrosophic bitopological setting	The International Journal of Analytical and Experimental Modal Analysis	12(8),2020, 1789-1796	Group - A	0886-9367	6.2
19	Separation axioms in vague bitopological spaces	Journal of Xian University of Architecture and Technology.	12(11),2020, 298-313.	UGC CARE- Group II	1006- 7930.	3.7
20	Vague $\tau_1\tau_2$ - Semi - $\propto$ -open sets and Vague $\tau_1\tau_2$ - Semi - $\propto$ - compactness in Vague Bitopological Spaces	Compliance Engineering Journal	11(1),2020 320-331.	UGC- Care Group - II Journal	0898-3577	6.1
21	On Johan Chromatic Core Subgraph of Splitting Graph Of Cycle Related Graphs And	The International Journal of Analytical and Experimental Modal	11(10),2019, 2962 –2965	Group - A	0886-9367	6.2

	Their Product	Analysis				
	Graphs	<b>T</b>	4(2) 2010	LIGG	2455 2621	0.15
22	Cycle Related	International	4(3), 2019,	UGC	2455-2631	8.15
	Fyen Divisor	Scientific	449-400.	Approved		
	Cordial Labeling	Development				
	for some Special	and Research				
	Graphs					
23	On Iohan	Infokara	8(10) 2019	Group - A	1021-9056	62
25	Chromatic Core	Research	754-757	Group II	1021 9050	0.2
	Subgraph Of	Researen	101 101			
	Splitting Graph					
	Of Star. Star					
	Related Graphs					
	And Their					
	Product Graphs					
24	Contra	Journal of	9,(12), 2019,	UGC	1548-7741	6.2
	continuous	Information	1405-1411.	Care -A.		
	functions in	and				
	Vague	Computationa				
	Bitopological	1 Science				
	spaces					
25	A Magua agt	The	11(10) 2010		0996 0267	6.2
25	A vague set	Ine	11(10),2019, 108 211	UGC	0886-9367	0.3
	the Regional	International	190-211.	Cale -A		
	wise Seasonal	Analytical and				
	rainfall in India"	experimental				
	Tunnun III IIIdiu	modal				
		analysis				
26	Vague semi -	Infokara	8(9),2019,	UGC-Care-	1021-9056	5.3
	open and semi -	Research	126-131	А		
	continuous					
	functions in					
	Vague					
	Bitopological					
	functions.					
27	A Survey on	International	6(2), 2019,	UGC .	2394-7780	3.25
	Differential	Journal of	51-55.	approved.		
	Count of Blood	advance and				
	In Human using	mnovative				
20	Comparison	International	6(1) 2010	UGC	Econ	5 75
20	approach to	journal of	255-258	annroved	No.2348-	5.15
	interval valued	Research and		upproved.	1269	
	vague set in	analytical			PIssn No 2	
	diagnosis of	reviews			349-5138	

	plant disease using distance					
	measures					
29	On Interval Valued Almost Resolvable Spaces	International Journal of Latest Engineering and	3(7), 2018, 22-30.		2455-4847	3.460
		Research				
30	A Note on Interval Valued Vague Volterra Spaces	Elixir International Journal,	109C, 2017 47800-47806	UGC approved.	2229- 712X	6.865
31	Interval Valued Vague Weakly Volterra Spaces	Global Journal of Engineering Science and Researches,	4(12),2017, 1-9.	UGC approved.	2348-8034	4.022
32	Behavior of Closed Mappings and Connected Spaces in Soft Interval Valued Intuitionistic Fuzzy Topology,	International Journal of Innovative Trends in Engineering and Research,	2(11),2017, 36 – 41.	UGC approved.	2395-2946	5.473
33	Soft interval valued intuitionistic fuzzy semi-pre generalized homeomorphism ,	Mathematical Sciences International Research Journal,	3(2),2014, 736-739.	UGC approved.		
34	Soft interval valued intuitionistic fuzzy semi-pre generalized closed sets	Journal of Global Research in Mathematical Archives,	2(3),(2014).	UGC approved.	2320- 5822	
35	A decisive algorithm for interval valued	Asian Academic Research	1(28),2014, 255-268.	UGC approved.	2278-859 X	

	intuitionistic	Journal of				
	fuzzy sets via	Social Science				
	soft sets,	and				
		Humanities				
36	Remarks on soft	Elixir	70(2014),	UGC	2229-	6.865
	$\beta$ locally closed	Adv.Math	24312-24317	approved.	712X	
	sets,					
37	Soft	International	5(2),(2014),11	UGC	2229-5096	5.09
	intuitionistic	Journal of	1-116	approved.		
	fuzzy semi-	Mathematical				
	generalized	Archive				
	closed sets, 5(2),					
	(2014), 111-116.					
38	A fusion of soft	International	2(12),2013,	UGC	2321-8843	7.529
	expert set and	Journal of	531-535.	approved.		
	matrix models	Research in				
		Engineering				
		and				
		Technology				
39	On soft $\beta$	International	1(5),2013,	UGC	0976-5840	
	separation	Journalof	1-7.	approved.		
	axioms	Mathematical				
		Research &				
		Science				
40	Fuzzy	International	2(10),2013,	UGC	2319-8753	5.5
	for decision	Journal of	339-344	approved.		
	making in risk	Innovative				
	management	Research and				
	system via soft	Studies				
	expert set	<b>.</b>	<b>7</b> 0/15		0055.0005	
41	Multi criteria	International	78(15),	UGC	0975-8887	
	problem with	Journal of	2013,1-4.	approved.		
	soft expert set,	Computer				
42	Companylized as ft	Applications	4(2) 2012	LICC	2220 5046	
42	Generalized soft	International	-4(2),2013,	approved	2229-3040	
	gp closed sets	Mathematical	17-23.	upproved.		
	and som gsp	Archivo				
	soft topological	AICHIVE				
	son topological					
	spaces,	1				

#### 11. Book Published:

SI.	Name of the		Year of	ISBN/ISSN number	
No.	teacher	Title of the book	publication	of the proceeding	Name of the publisher
1	Dr.A.Arokia Lancy	Vedic Mathematics -An unearthed Easy Science Part-1	2023	978-81-9608056-0-9	Nirmala College for Women, Coimbatore

#### **12. Project Received:**

Dr.F. Nirmala Irudayam, Dr.K.Mohana & Dr.A.Arokia Lancy - Seed Money project entitled 'Impact on intelligence quotient in Mathematics Students Post Covid via Mathematical Modelling' in the academic year 2022-2023

#### **13.** Paper Presentation

1) Presented a research paper in Indian Science Congress, held at Kongunadu College of Arts And Science, Dec 2013.

2) Presented paper in Rash 2012, held at United Institute of Technology,

3) Presented paper in UGC Sponsored National Seminar On 'Recent Trends in Fuzzy Mathematics and Its Applications'

4) Presented paper in NARC on Vague Soft Completely Continuous Functions in Vague Soft Topological Spaces, Nov, 2019.

#### 14. Seminars, Conferences and FDP Participated:

S.No.	Year	Title	Level	Name of the

				Organizer
1	2018	Workshop on outcome based Education		IQAC, Nirmala College for Women
2	2019	Faculty Development Programme on Innovative Teaching Strategies		Department of CS,BCA and IT, Nirmala College for Women
3	2019	One day Hands on Training on Content Development using Joomla	State Level	Curriculum Development Cell, Nirmala College for Women
4	2020	Webinar on Real life meets fantasy / Augumented / Virtual Reality	State Level	Department of Mathematics SF Nirmala College for Women
5	2020	Happiness	State Level	Knowledge Business
				School, Salem
6	2020	Webinar on the seven gifts of the Holy Spirit	State Level	Catechism and moral Instruction Committee,Nirmala College for Women,Coimbatore
7	2020	International Webinar on Fractional system with Rossenblatt process and Poison Jumps - Optimal Controllability	International Level	KPR Institute of Engineering and Technology
8	2020	Webinar on E - Resources for Research	National Level	Crossian Research Forum , Holy Cross College , Nagercoil

9	2020	One day Workshop on 'Innovative Eco systems , Incubation Centres and Start ups for Higher Eduation Institutions '		Nirmala College for Women
10	2020	Workshop on Revise Guidelines for the Accreditation Process of NAAC		Nirmala College for Women
11	2021	Python-FDP	National Level	IIT Kanpur
12	2021	One Week International Webinar on 'Teaching Redefined for Gen Z'	International Level	Department of Educational Psychology, Centre for Capacity Building Programmes for School Teachers , Tamilnadu Teachers Education University , Chennai & IQAC , Stella Matutina College of Education, Chennai
13	2021	National Webinar on ABC of Personality Development for Social Engineers	National Level	Stella Matutina College of Education, Chennai & Nazareth College of Education for Women
14	2021	Life Beyond Studies	National Level	Bundelkhand Institute of Engineering and Technology , Jhansi, State Project Implementation Unit Uttar Pradesh and Super 77.

15	2021	NAAC Sponsored National Virtual Conference on Best Practices and Their Success stories in Higher Educational Institutions	National Level	Rathinam College of Arts and Science , Coimbatore.
16	2021	One day International Webinar on Recent Advances in Statistics	National Level	Department of Mathematics GITAM University, Vishakapattinam, AndraPradesh.
17	2021	Two Days national Workshop on Enhanching Employability Skills of Students	National Level	Department of Mathematics and Statistics, Manipal University, Jaipur
18	2021	Academic Publications &Bibliometrics	State Level	Department of Library,Nirmala College for Women
19	2021	Workshop on Best Practices and Evolving Bench Marks in Higher Education Institutions	National Level	IQAC Nirmala College for Women, Coimbatore under PARAMARSH Scheme.
20	2021	Five Days Workshop on LATEX	National Level	Department of Mathematics GITAM University Vishakapattinam, AndraPradesh.
21	2021	DBT scheme- One Week FDP on e-Content Skill Development	National Level	Department of Mathematics,Nirmala College for Women

22	2023	UGC Sponsored	National Level	Bharathiar
		Faculty		University,
		Induction		Coimbatore.
		Programme		
23	2023	Two Days	International Level	Nirmala College for
		International		Women
		Conference on		
		Contemporary		
		Approaches in		
		Sciences and		
		Humanities:		
		Future Prospects		
24	2023	Tamil Nadu	International Level	EDC, Nirmala
		Millet Conclave		College for Women

### 15. Seminars, Conferences etc organized

S.No.	Year	Title	Level
1	2021	International Webinar Series on Human	International
		Values	
2	2021	DBT Sponsored Workshop on LATEX	College
3	2023	Faculty Development Programme	College
4	2018-2024	Various Orientation and Awareness	College
		programmes for the Student Affairs	
		Committee	

#### Achievement as Student

- Had won 'Vivekanandar Award ' from Bharathi Yuva Kendra, Trichy,2006.
- Best Outgoing Student Award From the department of Mathematics, Nirmala College for Women, 2005.
- Best N.C.C cadet in Civil Subjects, 2003, Obtained B & C Certificate.
- Best Public Speaker Award, Nirmala College for Women, 2003.

# **16. Administrative Position :**( From the beginning)

S. No.	Administrative position	Period (from -to)
1	Member of Student Affairs Committee	2015-2018,2019-till date
2	College Band In-charge	2015 -2016
3	Treasurer – OSA	2018-2021
4	Member of Village Adoption Committee	2018-2019
5	Member of NECTAR Committee	2018-2019
6	Member in the College Prize Committee	2018-2019
7	Executive Member of FORT	2018 till date
8	Member of Grievance and Redressal Committee	2022 till date

#### **17.** Role as Resource Person

- Acted as Resource person for the Guest Lecture "Tychonoff's theorem and Introduction to Algebraic Topology" on 3<sup>rd</sup> November, 2022, Patrician College, Chennai
- Acted as Resource person for Webinar "Innovative Math Teaching Ideas" on National Science Day Celebration on 28<sup>th</sup> February 2023, PPG College of Arts and Science, Coimbatore.