CAUVERY COLLEGE FOR WOMEN

(AUTONOMOUS)

STAFF PROFILE

PERSONAL INFORMATION

1. Name **:** Dr.R.DIVYA

2. Date of Birth **:** 12.05.1992

3. Address **:**

Residential	Office
E2, SRI RENGABHAVANAM, 3rd CROSS, KAVERI NAGAR, MELA CHINTHAMANI, OLD KARUR ROAD, TRICHY-620002 Mobile: 8489371606 E-Mail : rdivyamat@gmail.com	PG AND RESEARCH DEPARTMENT OF MATHEMATICS, CAUVERY COLLEGE FOR WOMEN ANNAMALAI NAGAR, TRICHY-620018. E-Mail : rdivya.maths@cauverycollege.ac.in

ACADEMIC INFORMATION

4. Designation & Department : ASSISTANT PROFESSOR & MATHEMATICS

5. Educational Qualification :

Degree	Year	College/University
Ph.D	2022	Cauvery College for Women(Autonomous),Trichy
M.Phil	2015	St.Joseph college(Autonomous), Trichy
M.SC	2014	Cauvery College for Women, Trichy
B.Sc	2012	Cauvery College for Women, Trichy

6. Researcher ID **:**

GOOGLE SCHOLAR ID : vE5on1oAAAAJ&hl

ORCID ID : 0000-0003-3043-4371

VIDWAN ID : 205998

SCOPUS:https://id.elsevier.com/settings/redirect?code=Hw1gped5mUgBtl2UjJuYfzF3XSN4JICq muQo2IXk

WEB OF SCIENCE ID : AFD-0044-2022

MENDELEY : -

PUBLONS: http://publons.com/researcher/AFD-0044-2022

7. Dissertation/Thesis:

S.No	Research Degree M.Phil / Ph.D	Title of Dissertation / Thesis
1	M.Phil.,	Convergence Problem for Asymptotically Nonexpansive Mappings
2	Ph.D.,	The Shortest Path on Interval-Valued, Intuitionistic Nether Triangular,Trapezoidal Neutrosophic Fuzzy Graphs

8. Experience :

Date of Joining	Institution	Year of Experience
01.07.2016	Cauvery College for Women(Autonomous),Trichy	10 years

9. Areas of Specialization : Neutrosophic Fuzzy Graph

10. Languages known : Tamil, English

11. Subjects Taught :

UG	Vector Calculus And Fourier Series, Astronomy, Fuzzy Graphs, Sequence And Series, Methods In Numerical Analysis, Algebra, Analytical Geometry (3d) And Trignometry, Calculus And Fourier Series, Algebra And Calculus, Numerical Analysis And Statistics, Operations Research, Essential Mathematics, Mathematics –Ii, Abstract Algebra, Numerical Methods With Matlab Programming (Lab), Numerical Methods With Matlab Programming, Biostatistics And Biosafety, Mathematics – I, Value Education, Soft Skill Development. Fuzzy Sets And Systems, Python Programming, Mathematics For Competitive Examinations -I, Competitive Examinations -Ii , Internet Of Things, Cyber Security, Latex (Practical), Python (Practical)), Statistical Tools And Techniques – R Programming (Practical)
PG	Ordinary Differential Equations, Mathematical Modelling, Partial Differential Equations, Stochastic Process, Mathematical Programming, Cyber Security.

12. Details of Publications:

Journal Name & Volume	Year of Publication	ISSN Number	Name of the Paper	Impact Factor
Global Journal of Mathematical Sciences: Theory and Practical & 9	Nov 2017	0974-3200	Fuzzy Coloring Circular Interval Graphs of Integer Decomposition With Constant Variables	-----
International journal of Fuzzy Mathematical Archive & 14	Dec 2017	2320-3242	Fuzzy Colouring of Interval-Valued Fuzzy Graph	1.137

International Journal of Pure and Applied Mathematics & 120	September 2018	1314-3395	Strong Interval – Value Neutrosophic Intuitionistic Fuzzy Graphs	7.19
International Journal of Research and Analytical Reviews & 6	Jan-March 2019	2349-5138	Edge Coloring of A Complement of Strong Interval Valued Intuitionistic Fuzzy Graph	5.75
Adalya journal & 8	Aug-2019	1301-2746	Interval,Double-valed neutrosophic intuitionistic fuzzy graphs	5.3
The international journal of analytical and experimental modal analysis & XII	Jan-2020	0886-9367	Minimal Spanning Tree Under Single Valued Neutrosophic Fuzzy Graphs	6.3
Parishodh Journal & IX	March 2020	2347-6648	The Shortest Path on Minimal Spanning Tree With Triangular Single- Valued Neutrosophic Intuitionistic Fuzzy Graph	6.3
International Journal of Advanced Research in Engineering and Technology (IJARET)	July 2020	0976-6499	The Shortest Path Problem On India Famous Seven Tourist Place With Dijkstra's Algorithm In Interv Al-Valued Intuitionistic Triangular Neutrosophic Fuzzy Graphs	0.29
Meterials Today : Proceedings	March 2021	-	Shortest Path on Interval-valued nether trapezoidal neutrosophic Fuzzy graph	1.3
Turkish Journal of Computer and Mathematics Education,	May 2021	1301-2746	Shortest Path On Interval- Valued Triangular Neutrosophic	0.33

			Fuzzy Graphs With Application	
Turkish Online Journal of Qualitative Inquiry (TOJQI)	June 2021	1309-6591	Shortest Path On Intuitionistic Trapezoidal Neutrosophic Fuzzy Graphs With Application	-
The Journal Of Oriental Research Madras	August 2021	0022-3301	Shortest Path On Interval-Valued Intuitionistic Trapezoidal Neutrosophic Fuzzy Graphs With Application	7.215
Italian Journal Of Pure And Applied Mathematics & 49	May 2023	2239-0227	The shortest path problem on chola period built temples with Dijkstra's algorithm in intuitionistic triangular neutrosophic fuzzy graph	0.24
Jnanabha & 53(1)	June 2023	2455-7463	Shortest Path On Interval-Valued Intuitionistic Trapezoidal Neutrosophic Fuzzy Graphs With Application	-
Aryabhatta Journal of Mathematics & Informatics & 15	July-Dec 2023	2394-9309	Minimum spanning tree on world famous seven statues with prim's and kruskal algorithm using neutrosophic fuzzy graphs	5.856
Aryabhatta Journal of Mathematics & Informatics & 15	July-Dec 2023	2394-9309	The shortest path problem on largest lake in india under single valued trapezoidal neutrosophic neutrosophic fuzzy graph	5.856

Aryabhatta Journal of Mathematics & Informatics & 16	Jan-June 2024	2394-9309	Shortest path on triangular fuzzy pythagorean Neutrosophic Fuzzy Graphs with application	5.856
Non linear studies & 31	Dec 2024	1359-8678	The shortest path problem on hill stations in india under single valued triangular neutrosophic fuzzy graph	0.58
Non linear studies & 31	Dec 2024	1359-8678	The most dangerous volcanoes using minimum spanning tree of bipolar neutrosohic fuzzy graphs	0.58
Aryabhatta Journal of Mathematics & Informatics & 18	Jan-June 2026	2394-9309	Shortest Path on Airport Connectivity System Using Pentagonal Neutrosophic Fuzzy Graphs	5.856

13. Details of Papers Presented:

Date	Organizer	Name of the Seminar	Paper Name
11.12.2017	Jamal Mohamed College	International Conference On Mathematical Methods and Computation	Fuzzy Colouring of Interval-Valued Fuzzy Graph
02.07.2018	National Institute Of Technology	International Conference on Analysis and Applied Mathematics	Strong Interval – Value Neutrosophic Intuitionistic Fuzzy Graphs
11.O1.2020	Idhaya college for women	Internatinal Conference on Pure and Applied Mathematics	The Shortest Path on Minimal Spanning Tree With Triangular Single-Valued Neutrosophic Intuitionistic Fuzzy Graph
04.03.2020	Kongunadu College of Engineering &	National Conference on Mathematics: Pure,	Minimal Spanning Tree Under Single

	Technology	applied and Computation (NMPAC-2020)	Valued Neutrosophic Fuzzy Graphs
7.10.2020-8.10.2020	Queens College of Arts and Science for Women,	International Conference on Recent Trends and Technology of Mathematics and Science (QIVCRTTMS-2020)	The Shortest Path on Interval-Valued Nether Trapezoidal Neutrosophic Fuzzy Graphs
11.08.2021	Madurai Sivakasi Nadars Pioneer Meenakshi Women's College	National Symposium on "Newfangled Avenues of Applied Mathematics	The Shortest Path Problem On India Famous Seven Tourist Place With Dijkstra's Algorithm in Interval-Valued Intuitionistic Triangular Neutrosophic Fuzzy Graphs

14. Details of Seminars / Conferences / Workshops Attended:

Date & Venue	**Title**	**National / International**	**Topic**
11.12.2017 & Jamal Mohamed College	Fuzzy Colouring of Interval-Valued Fuzzy Graph	International	International Conference On Mathematical Methods and Computation
02.07.2018 & National Institute Of Technology	Strong Interval – Value Neutrosophic Intuitionistic Fuzzy Graphs	International	International Conference on Analysis and Applied Mathematics
11.O1.2020 & Idhaya college for women	The Shortest Path on Minimal Spanning Tree With Triangular Single- Valued Neutrosophic Intuitionistic Fuzzy Graph	International	Internatinal Conference on Pure and Applied Mathematics
04.03.2020 & Kongunadu College of Engineering & Technology	Minimal Spanning Tree Under Single Valued Neutrosophic Fuzzy Graphs	National	National Conference on Mathematics: Pure, applied and Computation (NMPAC-2020)

7.10.2020-8.10.2020 & Queens College of Arts and Science for Women	The Shortest Path on Interval-Valued Nether Trapezoidal Neutrosophic Fuzzy Graphs	International	International Conference on Recent Trends and Technology of Mathematics and Science (QIVCRTTMS-2020)
11.08.2021 & Madurai Sivakasi Nadars Pioneer Meenakshi Women's College	The Shortest Path Problem On India Famous Seven Tourist Place With Dijkstra's Algorithm in Interval-Valued Intuitionistic Triangular Neutrosophic Fuzzy Graphs	National	National Symposium on "Newfangled Avenues of Applied Mathematics
24.01.2025 & Seethalakshmi Ramaswami College, Trichy	Participated	National	International Virtual Conference on Mathematical Explorations and Breakthroughs,

15. Details of Seminars / Conferences / Workshops Attended(Online mode):

S. No	Nature Of The Activity	Title Of The Activity	Date And Time	Resource Person	Name Of The Hosting Institution	Category
1.	Webinar	Webinar on Mathematical Modelling for Science and Engineering	02.05.2020, 3.00- 4.30 p.m	Dr.S.Srikanth, Associate Dean,Ramanujan Research chair Professor for Mathematics,School of Humanities and Sciences,Sastra Deemed University,Thanjavur.	Cauvery College for Women(Autonomous)Trichy-18	National
2	Webinar	Webinar on Education 4.o	05.05.2020, 10.30-11.30 a.m	Dr.K.Karunagaran,Principal and Secretary,Sri Ramakrishna College of Arts and Science(Auton	Cauvery College for Women(Autonomous) Trichy-18	State

				omous),Coimbatore.		
3	Webinar	Modern Teaching Techniques	17.05.2020	Pandi Alaguraja M,HR Business Leader,Oneyes Technoogy, Chennai.	Dr.Zakir Husain College, Ilayangudi, Sivagangai District	State
4	webinar	The Art of Writing Research Papers	22.05.2020 10.50 AM	-	Shri Shankarlal Sundarbai Shasun Jain College for Women	International
5	webinar	An Overview of Data Science - Career Path	22.05.2020 5.00-6.00 PM	_	St.Pious X Degree & PG College for Women	International
6.	Webinar	Semi Graphs and Virus Graphs	31.05.2020, 3.00 p.m	Dr.K.Meenakshi,Associate Professor,CMR Institute of Technology,Kundalahalli,Bengaluru.	Cauvery College for Women(Autonomous) Trichy-18	National

16. Details of Orientation / Refresher Course Attended:

Date	Title of the Course	Organizer
Aug-Oct 2019 (8 week)	Faculty Development Programme- Matrix Analysis with Applications	NPTEL-AICTE
Jan – Mar 2025 (8 week)	Faculty Development Programme- Graph Theory	NPTEL-AICTE
Aug-Oct 2025 (8 week)	Faculty Development Programme- Introduction to Algebraic Graph Theory	NPTEL-AICTE
Jan – April 2026 (8 week)	Faculty Development Programme- Algorithmic Graph Theory and Data Structures	NPTEL-AICTE

17. **Details of Orientation / Refresher Course/Faculty Development Programme Attended (online mode):**

S.No	Title of the professional development programme	Date and Duration (from – to)
1	Mathematical Modelling for Science and Engineering	02.05.2020, 3.00- 4.30 p.m
2	Recent Insights on Cyber Security	07.05.2020, 5.00- 7.00 p.m
3	Career Opportunity for mathematics in ForeignCountries	19-22.05. 2020, 10.00-11.00 a.m
4	Research Methods and Writing Skills in Mathematical Sciences	25- 27.05.2020
5	Graph Theory- A Research View	26.05.2020, 11.00 a.m– 12 p.m
6	Descriptive Statistics through R-Programming	26- 28.05.2020, 11.00 a.m- 12 p.m
7	Awareness & readiness of covid 19"	26.05.2020
8	FDP Overview of IPR Patent and Filling Aspects	21.02.2022
9	Academic Integrity and Dealing with Plagiarism - A Practical Approach	17.09.2022
10	Art of writing research paper	18.03.2023
11	"Indian Mathematics from Vedic to Morden Era (IMVME'24)" -Indian Knowledge System in Mathematics for Math Teachers & Educators	18.11.2024-22.11.2024

18. Details of Study Materials / Books written and published:

BOOK CHAPTER PUBLICATIONS

S.No	Name of the Faculty	Title	Publisher	Chapter	ISBN
1.	R. Divya	The Shortest Path Problem on India Famous Seven Tourist Place With Dijkstra's Algorithm In Interval-Valued	Neutrosophic System and its Applications, "A New Wave"	11	Print ISBN: 9781365528811

		Intuitionistic Trapezoidal Neutrosophic Fuzzy Graphs			
2.	R. Divya	Shortest Path on Intuitionistic Trapezoidal Neutrosophic Fuzzy Graphs	Neutrosophic System and its Applications, "A New Wave"	18	Print ISBN: 9781365528811
3.	R. Divya	Optimization of fuzzy inventory management with machine learning of forecast extreme gradient boosting model with quality products.	RYAN publishers	5	Print ISBN: 9789393253958
4.	R. Divya	Interval-Valued Nether Trapezoidal Neutrosophic Fuzzy Graphs Shortest Path	Cogniverse Press (April 2026)	4	Print ISBN : 978-93-47652-24-0 e-ISBN : 978-93-47652-46-2

19. Details of In-Charge / Participation in Extracurricular Activities :

(NSS, NCC, Sports, Games, Voluntary Association and Cultural Activities):

Nature of Activity	Period of Incharge
Leave note Incharce	**2017- Till date**
Time Table with Question paper Incharge	**2018 – 2026**
Internal Assessment Incharge	**2020- Till date**
Result Analysis Incharge	**2021- Till date**
Cultural Incharge	**2025- Til date**
Bos Incharge	**2025- Til date**