

**CAUVERY COLLEGE FOR WOMEN  
(AUTONOMOUS),  
STAFF PROFILE**

**PERSONAL INFORMATION**

1. Name : Dr. S. Saridha  
2. Date of Birth : 03. 06. 1982  
3. Address :

Residential	Office
No. 4, MRR Garden, Near Check Post, T.V Kovil, Trichy. Pin Code: 620005. E-Mail: saritha.sathish82@gmail.com Mobile: 9500868362.	Associate Professor, PG and Research Department of Mathematics, Cauvery College for women(Autonomous), Annamalai Nagar, Trichy-18.

**ACADEMIC INFORMATION**

4. Designation & Department : Assistant Professor, PG & Research Department of  
Mathematics.  
5. Educational Qualification :

Degree	Year	College/University
Ph. D	2021	St.Joseph's College(Autonomous), Trichy
M.Phil	2009	St.Joseph's College(Autonomous, Trichy.
M.Sc	2008	Srimathi Indira Gandhi College,Trichy.
B.Sc	2002	Srimathi Indira Gandhi College,Trichy.

**6. Researcher ID :**

- **GOOGLE SCHOLAR:**  
<https://scholar.google.co.in/citations?user=t-5Kb5MAAAAJ&hl=en>
- **ORCID:** <https://orcid.org/0000-0002-3549-7518>
- **SCOPUS ID:** -
- **MENDELEY:** -
- **WEB OF SCIENCE:** -
- **PUBLONS:** <https://publons.com/researcher/4278767/saridha-sundararaju>
- **VIDWAN:** <https://vidwan.inflibnet.ac.in/profile/205853>

**7. Experience :**

Date of Joining	Institution	Year of Experience
15-06-2009	Cauvery College for Women(Autonomous) Annamalai Nagar, Trichy-18.	14 years

**8. Areas of Specialization : Algebra, Automata Theory****9. Languages known : Tamil, English, Hindi****10. Subjects Taught :**

<b>UG</b>	Mathematical Statistics –II, Integral Calculus, Differential Calculus Biostatistics, Operations Research, Analytical Geometry 3D Trigonometry, Numerical Methods, Algebra And Calculus, Complex Analysis, Abstract Algebra, Numerical Analysis & Statistics, ODE ,PDE ,Laplace Transforms and Vector Calculus, Vector calculus and Fourier series, Graph Theory.
<b>PG</b>	Stochastic Processes, Mathematical Foundations For Computer Science, Probability And Statistics, Optimization Techniques, Linear Algebra, Functional Analysis, Measure and Integration.
<b>M.Phil</b>	-

**11. Research Supervision:**

	University from where guideship obtained	Thesis		
		Completed (in numbers)	Year of Completion	Pursuing (in numbers)
<b>M.Phil</b>	-	-	-	-
<b>P.hD</b>	-	-	-	-

**12.Details of Publications:**

<b>Journal Name &amp; Volume</b>	<b>Year of Publication</b>	<b>ISBN Number</b>	<b>Name of the Paper</b>	<b>Impact Factor</b>
Journal Of Computer And Mathematical Sciences  Volume 8	2017	0976-5727	Plus Weighted Finite State Automaton	4.655
International Journal Of Applied Engineering Research  Volume 13	2018	0973-4652	Algebraic Properties Of Plus Weighted Finite State Machines.	2.38
Journal Of Applied Science And Computations Volume 5	2018	1076-5131	On Regular Properties Of Plus Weighted Multiset Finite State Automaton	5.8
International Journal Of Information And Computing Science Volume 6	2019	0972-1347	A Study on Plus Weighted Multiset Transformation Semigroups	5.2
International Journal Of Information And Computing Science	2019	0972-1347	Some Properties Of Plus Weighted Multiset Grammars	5.2
The International Journal of Analytical and Experimental Modal analysis	2021	0886-9367	Some Operations on nth Type Intuitionistic Fuzzy Set	6.3
International Journal for Research in Applied Science & Engineering Technology	2023	2321-9653	Construction of Derivation Trees of Plus Weighted Context Free Grammars	7.538
International Journal for Research in Applied Science & Engineering Technology	2023	2321-9653	A New Direction Towards Plus weighted Grammar	7.894

Aryabhatta Journal of Mathematics & Informatics	2023	2394-9309	An Innovative ideas on Plus Weighted Linear Grammar	5.856
International Journal of Research in Applied Science and Engineering Technology	2024	2321-9653	Application of Fuzzy Hypergraph in Medical Diagnosis	7.538
International Journal of Research in Applied Science and Engineering Technology	2024	2321-9653	An Overview on Intuitionistic Fuzzy Multi Hypergroup	7.538

### 13.Details of Papers Presented:

Date	Organizer	Name of the Seminar	Paper Name
06.01.2012	Bishop Heber College (Autonomous) Trichy -620017	Heber International Conference On Applications of Mathematics and Statistics	Deterministic And Complete Fuzzy Finite tree automata
March 09-10 2012	Stella Maris & Loyola Institute of Business Administration, Chennai	International Conference on mathematics in Engineering and business Management	Some properties of Fuzzy tree automata
March 4 <sup>th</sup> & 5 <sup>th</sup> 2014	St. Joseph's college, Trichy	National Conference on mathematical methods and computations	Modified Parikh Matrix on words
December 20 & 21 2018	Jayaraj Annapackiam College For Women (Autonomous), Periyakulam, Theni	International Conference On Emerging Trends In Mathematical Sciences And Technology (Ictmst-2018)	On Regular Properties Of Plus Weighted Multiset Finite State Automaton

**14. Details of Seminars / Conferences / Workshops Attended:**

<b>Year &amp; Date</b>	<b>Organizer</b>	<b>Title</b>	<b>National / International</b>	<b>Topic</b>
January 9 <sup>th</sup> & 10 <sup>th</sup> , 2015	St.Joseph's college, Trichy-620002	National Conference on Discrete Mathematics	National	-

**15.Details of Seminars / Conferences / Workshops Organized:**

<b>Date</b>	<b>Title</b>	<b>National / International</b>	<b>Topic</b>
-	-	-	-

**16. Details of Orientation / Refresher Course Attended:**

<b>Date</b>	<b>Title of the Course</b>	<b>Organizer</b>
-	-	-

**17. Details of Study Materials / Books written and published: -****18. Details of Chairing as Resource Person:**

<b>Date</b>	<b>Title of the Seminar/Conference</b>	<b>Session Chaired</b>
-	-	-

**19. Administrative Positions held in the College:**

<b>Nature of Position</b>	<b>Year</b>
-	-

**20. Details of Incharge / Participation in Extracurricular Activities :**

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

<b>Nature of Activity</b>	<b>Period of Incharge</b>
Cultural Incharge	2010 to 2012
BOMAC Club Incharge	2017 to 2019

**21. Details of Participation in Consultancy, Training, Development etc.: -****22. Details of Membership in Academic Bodies/ Board of Studies: -****23. Details of Membership of Professional Bodies: -**

**24. Countries visited academically:     -**

**27. Any other information if any:**

**i. Number of Faculty Development Programs Attended: 10**

**ii. Number of Webinars Attend:   5**