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 :** Associate 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.	17 Years

8. **Areas of Specialization :** Algebra, Automata Theory

9. **Languages known :** Tamil, English, Hindi

10. **Subjects Taught :**

UG	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, Cyber Security, SPSS Practical.
PG	Stochastic Processes, Mathematical Foundations For Computer Science, Probability And Statistics, Optimization Techniques, Linear Algebra, Functional Analysis, Measure and Integration, Cyber Security.
M.Phil	-

11. **Details of Publications:**

Journal Name & Volume	Year of Publication	ISBN Number	Name of the Paper	Impact Factor
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 Hyper group	7.538
International Journal for Research in Applied Science & Engineering Technology	2025	2321-9653	Application of Fuzzy Hypergraph in Cyber Security	7.894
Aryabhatta Journal of Mathematics & Informatics	2026	2394-9309	A Study on Vertex Sum Cube Labeling For Path and Star Graphs	5.856
Aryabhatta Journal of Mathematics & Informatics	2026	2394-9309	An Overview of Plus Weighted Digraph and It's Applications.	5.856

12. 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 4th & 5th 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

13.Details of Seminars / Conferences / Workshops Attended:

Year & Date	Organizer	Title	National / International	Topic
January 9th & 10th , 2015	St. Joseph's College, Trichy-620002	National Conference on Discrete Mathematics	National	-

14.Details of Seminars / Conferences / Workshops Organized:

Date	Title	National / International	Fun ding Agency	Amount Sanctioned
14.03.2022 to 16.03.2022	**Python and its Applications**	**National**	**Rajiv Gandhi National Institute of Youth Development, Sriperumpudur**	**Rs 45,000/-**

15.Details of Orientation / Refresher Course Attended:

Date	Title of the Course	Organizer
-	-	-

16.Details of Study Material Chapter published: -Research Updates in Mathematics and Computer Science-Volume 5-Chapter 6

17.Administrative Positions held in the College:

Nature of Position	Year
-	-

18.Details of Incharge / Participation in Extracurricular Activities :

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

Nature of Activity	Period of Incharge
Cultural In charge	2010 to 2012
BOMAC Club In charge	2017 to 2019
Department Board of Studied Incharge	2021-2025

19.Details of Membership of Professional Bodies: - BHARAT GANITA PARISAD

20.Any other information if any:

i.Number of Faculty Development Programs Attended: 20

ii.Number of Webinars Attended: 20