### CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)

### **STAFF PROFILE**

### PERSONAL INFORMATION

1. Name : R. SOUNDARIA

:

- **2. Date of Birth** : 05.02.1987
- 3. Address

Residential	Office
NO 651, 6 <sup>th</sup> CROSS,	CAUVERY COLLEGE FOR WOMEN
SHANMUGA NAGAR,	(AUTONOMOUS),
U.K.T. MALAI,	ANNAMALAI NAGAR,
VAYALOOR ROAD,	TRICHY-620018
TRICHY-620102	

### **ACADEMIC INFORMATION**

### 4. Designation & Department: Assistant professor, Mathematics

### 5. Educational Qualification:

Degree	Year	College/University
Ph.D	2020	Pursuing, Bharathidasan
		University,
SET	2017	Mother Teresa Women's
SEI	2017	University
M.Phil	2017	Bishop Heber College, Trichy
M.Sc.,	2009	PSG College of Technology,
		Coimbatore
B.Sc.,	2007	Pioneer College of Arts and
		Science, Coimbatore

6. Researcher ID

GOOGLE SCHOLAR: 3SxIBOUAAAAJ

ORCID : https://orcid.org/0000-0001-9654-7729

:

WEB OF SCIENCE: https://publons.com/researcher/ABX-6247-2022/

PUBLONS: https://publons.com/researcher/3706605/soundaria-r/

**SCOPUS :** <u>https://id.elsevier.com/settings/redirect?code=I4amNgH4ATWAdAQXnni9hT6-alDyzznCcdIo2IXk</u>

VIDWAN: https://vidwan.inflibnet.ac.in/profile/205834

:

7. Experience

Date of Joining	Institution	Year of Experience
18.06.2018 to till date	Cauvery college for Women,	5 year 8 months
	Trichy	
27.06.2011 to 08.04.2014	Trichy Engineering College,	2 years 9 months
	Trichy	
18.06.2009 to 30.10.2010	PSG College of Arts and	1 year 4 months
	Science, Coimbatore	

8. Areas of Specialization : Fuzzy Inventory Models with Machine Learning

# 9. Languages known : English, Tamil.

# 10. Subjects Taught :

UG	Numerical Methods with MATLAB Programming, Analytical Geometry 3D, Graph
	Theory, Algebra and Calculus, Biostatistics, Operations Research, Fuzzy Sets and
	Systems, Mathematics – III, R Language, Numerical Analysis and Statistics
PG	Advanced Numerical analysis, Ordinary Differential Equations, Mathematical
	Foundation For computer Science

### **11. Details of Publications:**

Journal Name & Volume	Year of Publication	ISSN Number	Name of the Paper	Impact Factor
Thermal Science, Volume 25, Special Issue	December 2021	2334 – 7163	Optimization of the Average Monthly Cost of an EOQ Inventory Model for Deteriorating Items in Machine	1.655
			Learning Using Python	

# **12. Details of Papers Presented:**

Date	Organizer	Name of the Seminar	Paper Name
17 <sup>th</sup> March	Bishop Heber College,	Heber conference on	Modified third order
2017	Trichy	Computational Techniques	RK Method based on Centroidal mean for Fuzzy and hybrid
			fuzzy initial value problems
2 & 3 <sup>th</sup> March	Bishop Heber College,	Recent trend in Applied	Fifth order Runge-
2018	Trichy	Mathematics	Kutta Method based on Heronian Mean for Hybrid Fuzzy Initial Value Problem

7 & 8 <sup>th</sup> Jan 2019	Bishop Heber College, Trichy	HICAAMMC-2019	Fifth order Runge- Kutta Method based on Contra Harmonic Mean for Hybrid Fuzzy Initial Value Problem
4 <sup>th</sup> March 2020	Kongunadu College of Engineering & Namakkal	National Conference on Mathematics: Pure, applied and Computation (NMPAC-2020)	Solving Fuzzy Linear Fractional Programming Problem Using LU Decomposition Method
4 <sup>th</sup> March 2020	Kongunadu College of Engineering & Namakkal	National Conference on Mathematics: Pure, applied and Computation (NMPAC-2020)	Solving Trapezoidal Fuzzy Number By Using Fully Fuzzy Linear Equations By Gauss Jacobi and Seidal Method
8 <sup>th</sup> November 2020	Queens College of Arts and Science, Pudukottai	National Conference on Mathematics: Pure, applied and Mathematics	Optimization of Average Monthly cost for Deteriorating items
15 <sup>th</sup> – 16 <sup>th</sup> July 2021	Mohanlal Sukhadia University, Udaipur	Recent Applications of Mathematical Sciences	Optimization of Average Monthly cost for Deteriorating items using Machine Learning by Python
24 <sup>th</sup> – 25 <sup>th</sup> February 2022	Cauvery college for women (Autonomous)	International Conference on New Ideas in Technology and Innovations	Optimization of fuzzy economic order quantity using partial trade reliability
30 <sup>th</sup> to 31 <sup>st</sup> January 2023	Cauvery college for women (Autonomous)	International Conference on New Ideas in Technology and Innovations	Optimization of fuzzy production inventory model with partial trade credit policy and reliability using Python

21 <sup>st</sup> to 22 <sup>nd</sup> October 2023	Holy cross Arts and Science for Women	International Conference on Mathematical Modelling, Analysis and Computing – 2023	Optimization of fuzzy production inventory model with partial trade credit policy and reliability
13 <sup>th</sup> to 14 <sup>th</sup> February 2024	Cauvery college for women (Autonomous)	International Conference on New Ideas in Technology and Innovations	Optimization of fuzzy inventory models with machine learning by navie bayes classification and weka
18 <sup>th</sup> to 19 <sup>th</sup> February 2024	Bon Secours Arts & Science College For Women	Virtual Conference on Emerging Trends For Futuristic Development in Science and Technology (TECHTRENDZ 2K24)	Analyzing Economic Order Quantity using Machine Learning and Weka
23 <sup>th</sup> February 2024	AIMAN College of Arts and Science For Women ,Trichy	International Conference on Recent Trends in Mathematics and its Applications-2024	Optimization of Fuzzy Economic Order Quantity using Machine Learning and Weka

# 13. Details of Seminars / Conferences / Workshops Attended:

Year &	Organizer	Title	National /	Торіс
Date			International	
24 <sup>th</sup> August	Kongunadu	CSIR sponsored	CSIR sponsored	Innovations in
2019	College of	work shop	workshop	Number Theory
	Engineering and	"Innovations in		for Cryptography
	Technology,	Number Theory		Applications
	Namakkal	for Cryptography		
		Applications"		

9th and 10thIQAC, CauveryFostering GlobalFacultyFostering development9th and 10thIQAC, CauveryFostering GlobalFacultyFostering developmentGlobalJune 2022College for Women (Autonomous), TrichyFostering Higher Education Institutions through TechnologyProgrammeCompetence among Higher Education Institutions through Technology20th to 25thMahatma Gandhi for Rural Education, InstitutionsMentoring Skills and FacilitationFaculty Mentoring Skills for Rural ProgrammeMentoring Skills for Rural ProgrammeSkills and Facilitation20th to 25thMahatma Gandhi for Rural Education, UGC - HRDC Bharathidasan University, TrichyMentoring Skills and FacilitationsFaculty ProgrammeMentoring Skills for Rural Programme6th and 7th January 2023Janal Mohammed CollegeDifferential Equations and their Applications in TrichyWorkshopDifferential Equations and their Applications in Mathematical	11 <sup>th</sup> October	AIMAN College	Fuzzy	Faculty	Fuzzy
17th to 19thNationalTraining forRajiv GandhiPersonalityMarch 2022Institute ofTrainees of 21stNational InstituteDevelopment,InterpersonalTechnology,Century Skillsof YouthInterpersonalDevelopmentSkills, Creativity,FlippedClassroom andBlendedClassroom andBlended9th and 10thIQAC, CauveryFostering GlobalFacultyFosteringJune 2022College for WomenCompetence amongHigher EducationProgrammeGlobalTrichyInstitutions throughTechnologyFosteringGlobalCompetence amongHigherJune 2022Mahatma GandhiMentoring SkillsFacultyMentoringHigherJune 2022Mahatma GandhiMentoring SkillsFacultyMentoringJune 2022Mahatma GandhiMentoring SkillsFacultyMentoringJune 2022Mahatma GandhiMentoring SkillsFacultyMentoringJune 2023Mahatma GandhiMentoring SkillsFacultyMentoringJune 2023Mahatma GandhiMentoring SkillsFacultyMentoringGth and 7thJamal MohammedDifferentialProgrammeFacilitationGth and 7thJamal MohammedDifferentialGuations inHigher EducationJanuaryCollegeEquations and theirEquations and theirEquations and their Applications in2023(Autonomous),Applications inMathematicalHigher Applications<	2019	of Arts and	Mathematics	development	Mathematics
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Trichy Mathematical in Mathematical	January	College	Equations and their		Equations and
	2023	(Autonomous),	Applications in		their Applications
		Trichy	Mathematical		in Mathematical
Modelling Modelling			Modelling		Modelling

17 <sup>th</sup>	Rajeev Gandhi	Academic Integrity	Faculty	Academic
September	College of	and Dealing with	development	Integrity and
2022	Management	plagiarism – A	Programme	Dealing with
	Studies,	practical Approach		plagiarism – A
	Maharashtra			practical
				Approach
06.01.2023	Jamal Mohammed	Lecture Workshop	National	Lecture
_	College, Trichy	on		Workshop on
07.01.0000		Differential		Differential
07.01.2023		Equations and		Equations and
		their		their
		Applications in		Applications in
		Mathematical		Mathematical
		Modeling		Modeling
11.09.2023	Vellore	A Five-Day	National	A Five-Day
-	Institute of	Online FDP		Online FDP
15.09.2023	Technology,	on Advances in		on Advances in
15.09.2025	Chennai	Graph		Graph
		Theory		Theory

### 14. Details of Orientation / Refresher Course Attended:

Date	Title of the Course	Organizer
29.10.2018 to	Capacity Building Workshop on E-	Cauvery college for Women
2.11.2018	Content Development	(Autonomous)
August to October	Higher Engineering Mathematics-	NPTEL
2019	FDP	
August to October	Introduction to R Software	NPTEL
2019		
August to October	Mentor for Calculus of one variable	NPTEL
2019		
August to October 2020	Descriptive Statistics with R software	NPTEL
August to October	Mentor for	NPTEL
2020	Descriptive Statistics with R software	
January to February	Python for Data Science	NPTEL
2021		
January to April 2021	Essential of Data Science with R-	NPTEL
	Software 1 Probability and Statistical Inference	

August to October 2021	Big Data Computing	NPTEL
August to October 2022	Introduction to Machine Learning (Tamil)	NPTEL
January to April 2023	Data Analytics with Python	NPTEL
August to October 2023	Essential Mathematics for Machine Learning	NPTEL
10.03.2023	UGC-Sponsored Online	Bharathidasan University
_	short term course in	Khajamalai Campus
16.03.2023	Quality Assurance and	Tiruchirappalli
	Enhancement in Higher	
	Education	

15. Details of Incharge / Participation in Extracurricular Activities :

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

Nature of Activity	Period of Incharge
Culturals	2018-2023

**16. Details of Participation in Consultancy, Training, Development etc.:** 

1) Getting with one note

2) Digital story telling with Microsoft sway

17. Any other information if any:

Number of Webinars Attended	22
Number of Webinars Attended	22

Number of Faculty Development Programme Attended 22