

## CURRICULUM VITAE

**Mrs. R. Amutha**, M.Sc., B.Ed., M.Phil., (Ph.D)  
Assistant Professor  
PG & Research Department of Mathematics  
Sri Vidya Mandir Arts and Science College  
Katteri, Uthangarai - 636902, Krishnagiri - DT  
E-Mail: saraswathiamutha@gmail.com,  
Mobile No: 8940504733 & 8940506004



### **1. Personal Details:**

Name of the Candidate	: Mrs. R. Amutha
Parents' name	: Mr. M. Radha Krishnan and Mrs. R. Saraswathi
Husband Name	: Mr. N. Sriram
Gender	: Female
Marital Status	: Married
Religion	: Hindu
Nationality	: Indian
Place of Birth	: Uthangarai
Mother Tongue	: Tamil
District	: Krishnagiri
State	: Tamilnadu
Date of Birth	: 22.05.1988
Community	: BC – Kongu Vellalar
Residential Address	: Katteri (Po), Uthangarai (Tk) Krishnagiri (Dt), Tamilnadu, Pin Code- 636902.

### **2. Subject**

	: Mathematics
Specialization area	: Algebra, Operations Research, Graph theory.
Title of the Ph.D Work	: A Study on Cartesian product of Interval Valued Intuitionistic fuzzy sets.

### 3. Educational Qualification

S. No	Degree	University/Institution	Year of pass	% of marks
1.	Ph.D.	Periyar University (Part time) –Salem.	Not yet Completed	-
2.	M.Phil	Sri Ramakrishna Mission College of Arts &Science, Coimbatore.	July-2014	55.6%
3.	M.Sc.	Sri Vidya Mandir Arts and Science College-Katteri, Uthangarai.	April-2011	77.4 %
4.	B.Ed.	TNTEU	June -2009	83.75%
5.	B.Sc.	Sri Vidya Mandir Arts and Science College-Katteri, Uthangarai.	April-2008	83.5%
6.	HSC	State Board- Uthangarai	March-2005	78.25 %
7.	SSLC	State Board- Pavakkal	March-2003	79.2 %

### 4. Teaching Experience (As per the Service Certificate): 12 years 4 months 7days

Sl.No	Name of Institution	Designation	Level	Duration	Years of Experience
1	Sri Vidya Mandir Arts & Science College(Autonomous).	Assistant Professor	UG	30.06.2011-16.06.2021 and 01.04.2022-till date	13 years 02 months 27 days
			PG	15.06.2014-16.06.2021 and 01.04.2022-till date	10 years 03 months 11 days

### 5. Member - Inspire Camp Sponsored by Government of India

S.No	Nature	Date		Years of Experience
		From	To	
1	Member	26/09/2015	30/09/2015	2 Years
		24/09/2016	28/09/2016	

## 6. Member – Mega Job Fair

S.No	Nature	Date		Years of Experience
		From	To	
1	Member	28/01/2017	28/01/2017	1 year

## 7. Details of Book Publications

- Differential Equations and Laplace Transforms, Shanlax publications-Madurai, ISBN- 978-93-80686-15-8, Nov-2013.
- A Cartesian Product Structure on Social States and New Resolutions, Publication: Fuzzy, Intuitionistic, and Neutrosophic Set Theories and Their Applications in Decision Analysis, Neutrosophic Science International Association (NSIA) Publishing House, ISBN 978-1-59973-821-5, April - 2025.

## 8. Research Works Presented in National/International Conference / Seminar / Symposia:

- Presented in the International Conference on Advances in Differential Equations and Numerical Analysis entitled “The Model operator on Intuitionistic fuzzy matrices” Organized by Department of Mathematics, Periyar University, Salem- February 20-21, 2025.
- Presented in the International Conference on Mathematical Modelling and Intelligent Systems entitled “A Cartesian product structure on Social and new Resolutions” Organized by PG and Research Department of Mathematics and Computer Science & Applications , Sri Vidya Mandir Arts & Science College (Autonomous), Uthangarai, Tamilnadu from 18<sup>th</sup> to 20<sup>th</sup> March 2024.
- Presented in the International Conference on Mathematics and its Applications entitled “Application of Cartesian product of interval-valued intuitionistic fuzzy soft matrices” Organized by PG and Research Department of Mathematics, Sacred Heart College(Autonomous), Tirupattur from 15-16 February 2024.
- Presented in the International Conference on Mathematical Modelling, Analysis and Computing entitled “The cartesian product of interval valued intuitionistic fuzzy matrix sets” Organized by Holy Cross Arts and Science College for Women, Tirupattur -21<sup>st</sup> and 22<sup>nd</sup> October 2023.
- “Cartesian product of interval valued intuitionistic fuzzy matrix and soft matrix sets” RAIAM-2023 (Two days National Conference), Organized by Department of Mathematics, Periyar University, Salem- July 27-28, 2023.
- International Conference on INNOVATIONS IN PHYSICAL SCIENCES, INFORMATION TECHNOLOGY AND SOCIAL SCIENCES (IC-IPIS2020) organized by Sri Vidya Mandir Arts &

Science college (Autonomous), Katteri, Uthangarai, Krishnagiri District, Tamil Nadu, India held on 14<sup>th</sup> and 15<sup>th</sup> February 2020.

- “Direct product of contrary Interval valued Intuitionistic fuzzy UP-ideals in UP-algebras” (International Conference), Organized by Department of Mathematics, Sri Vidya Mandir Arts and Science college-Katteri, 29 and 30 July-2019.
- “Basic Concept of Algebra and its applications” (National seminar) Organized by Department of Mathematics, Sacred Heart College, Tirupattur, 08-02-2019.
- “General concepts of Intuitionistic Fuzzy ideals” (National Conference), Organized by Department of Mathematics, Sri Vidya Mandir Arts and Science college-Katteri, 06-02-2019.
- “Direct product of contrary Interval valued Intuitionistic fuzzy UP-ideals in UP-algebras” (International Conference), Organized by Department of Mathematics, Trinity College, Namakkal, 08-02-2019.
- “Hydro Magnetic flow over a Porous Medium with Radiation effect” (National Conference), organized by Sri Vidya Mandir Arts & Science College, Katteri held during 18<sup>th</sup> & 19<sup>th</sup> July 2014.

#### **9. Orientation / Induction / Refresh / Certificate Course**

- UGC – Sponsored 2 weeks “Refresher course in Mathematical Sciences” Organized by Centre for Professional Development in Higher Education Malaviya Mission Teacher Training Centre, University of Delhi, Delhi, held from 18<sup>th</sup> September 2024 to 1<sup>st</sup> October 2024.
- “Refresher Course in Applicable Mathematics” Organized by Teaching Learning Centre, Ramanujan College University of Delhi, Department of Mathematics, Sri Jayachamarajendra College of Engineering (SJCE), JSS Science and Technology (JSS S & TU) University, Mysuru- 26 July – 08 August, 2022 (Two weeks).

#### **10. Conference / Seminar / Symposia / Workshop / FDP / Training Programme Participation**

- Participated a “International Conference on Emerging Trends and Technologies in Mathematics and Computing” organized by PG & Research Department of Mathematics, St. Joseph’s College of Arts and Science for Women, Hosur, held on 12 & 13-03-2025.
- Participated a National Virtual Conference on “Recent Trends in Pure and Applied Mathematics” Organized by Department of Mathematics, Suguna College of Arts and Science, Coimbatore on 27-02-2025.
- “National Conference on Recent Trends in Mathematics and Research Methodology in Machine Learning” organized by PG Department of Mathematics, Gonzaga College of Arts and Science for Women, Elathagiri, Krishnagiri District, held on 19 September, 2023.

- National level Virtual Faculty Development Program on the topic “NAAC ACCREDITATION FRAMEWORK” organizes by “Guru Shree Shantivijai Jain College for Women” from 9<sup>th</sup> to 16<sup>th</sup> September 2023.
- International Webinar on “Applications of MATLAB” organized by Department of Mathematics & Statistics, ST. FRANCIS COLLEGE, Koramangala, Bengaluru – 13<sup>th</sup> July, 2023.
- National science day- SCIENCE EXHIBITION 2023 organized by Sri Vidya Mandir Arts and Science college (Autonomous), Katteri, Uthangarai, held on 16<sup>th</sup> & 17<sup>th</sup> February 2023.
- Two-day International Conference on “New Trends in Mathematical Modelling with Applications” [ICNTMMA-2022] organized by Department of Mathematics, Sri Vidya Mandir Arts and Science college (Autonomous), Uthangarai. Tamil Nadu, India held during 07-08, April 2022.
- A Two-day International Conference on “New Trends in Fuzzy Logic and its Applications” [ICNTFLA-2021] organized by PG & Research Department of Mathematics, Sri Vidya Mandir Arts and Science college (Autonomous), Katteri, Uthangarai, during 29<sup>th</sup> & 30<sup>th</sup> January 2021.
- International Webinar on “APPLICATIONS OF ENGINEERING MATHEMATICS” organized by Department of Mathematics, Selvam College of Technology, Namakkal on 5<sup>th</sup> June 2020.
- National level FDP “Quality Enhancement in Teaching and Research” organized by Sri Vidya Mandir Arts and Science college, Uthangarai held during 30<sup>th</sup> Nov 2018 to 1<sup>st</sup> Dec 2018.
- National Workshop “Pure Analysis, Differential Equations And its Applications” organized by Sri Vidya Mandir Arts and Science college, Uthangarai held during 15<sup>th</sup> to 21<sup>st</sup> Nov 2018.
- National Workshop on “Financial Education for Middle Income Group” organized by Sri Vidya Mandir Arts and Science college, Uthangarai held during 19<sup>th</sup> January 2017.
- International Conference “Mathematical Applications in Engineering and Technology” organized by Sacred Heart College, Tirupattur, held on 27<sup>th</sup> & 28<sup>th</sup> January, 2017.
- State level Seminar “Introduction to probability Theory and Analysis” organized by Adhiyaman Arts and Science college, Uthangarai held during 10<sup>th</sup> September 2016.
- National Workshop on “Mathematical Analysis and Applications” organized by Sri Vidya Mandir Arts and Science college, Uthangarai held during 09<sup>th</sup> & 10<sup>th</sup> February 2016.
- National Seminar “Recent Trends in Mathematics” organized by Arignar Anna College of Arts and Science, Krishnagiri, held on 28<sup>th</sup> March 2015.
- National Conference “Mathematical Applications in Engineering and Technology” organized by Sacred Heart College, Tirupattur, held on 11<sup>th</sup> and 12<sup>th</sup> February 2015.
- State level Seminar “Differential Equation” organized by Sri Vidya Mandir Arts and Science college, Katteri held on January 2015.

- National Workshop “Algebra and analysis” (NWAA-2014) organized by Sri Vidya Mandir Arts and Science college, Katteri held on 7<sup>th</sup> & 8<sup>th</sup> February 2014.
- State level seminar “Modern Algebra” organized by Sri Vidya Mandir Arts and Science college, Katteri held on September 2013.
- State Level Seminar “Fuzzy Analysis” organized by Sri Vidya Mandir Arts and Science college, Uthangarai held on February 2013.
- National Seminar “Emerging Trends and Application of Mathematics to Science and Technology” organized by Sacred Heart College, Tirupattur held on 6<sup>th</sup> & 7<sup>th</sup> August 2013.
- International Workshop “Real Number System (IWORNS-2012)” organized by Sacred Heart College, Tirupattur held on 10<sup>th</sup> December 2012.
- National Level FDP “Excellence in Teaching and Emerging Trends” organized by Sri Vidya Mandir Arts and Science college, Katteri held on 11<sup>th</sup> & 12<sup>th</sup> February 2012.

### **11. International Journals Publications**

- An Overview of the Normalization and Cartesian Product on Intuitionistic Fuzzy Matrices, Metallurgical and Materials Engineering, Vol 31 (4) 2025 p. 664-678.
- An operations and relations on the Cartesian Product of Interval Valued Intuitionistic Fuzzy Matrices, Communications on Applied Nonlinear Analysis, ISSN: 1074-133X Vol 32 No. 9 (2025) 50-62.
- Geometric interpretations of the Cartesian product over intuitionistic Fuzzy A – Ideals of Subtraction Ms – Algebra, Advances in Mathematics: Scientific Journal, ISSN: 1857-8365 (2020) Vol. No: 9, 1467-1475.
- Numerical solution of heat transfer in an MHD second grade fluid over unsteady stretching sheet, Shanlax International Journal of Arts, Science & Humanities, ISBN: 2321-788x, 2015.
- Unsteady MHD second Grade Fluid flow through a porous medium from a permeable stretching sheet with non-uniform heat Source/Sink and thermal Radiation, Shanlax International Journal of Arts, Science & Humanities, ISBN: 2321-788X, 2015

### **12. Other than Academic Work**

1. Bus Incharge
2. Anti-Raging Committee
3. Students Leave Report.
4. Value added course Incharge

**13. Awards :** Best Teacher award [05-09-2024, Sri Vidya Mandir Arts & Science College(Autonomous), Katteri, Uthangarai].

### **DECLARATION**

I hereby declare that the facts stated above are true and Correct to the best Knowledge.

**Date:** 29/03/2025

**Place:** Uthangarai

**Signature**  
  
**(Mrs. R. AMUTHA)**