

**Name: Dr. A. YUVARANI**  
**Designation: Head, Assistant Professor**  
**Department: Mathematics**  
**Satellite Campus**

**Date of Joining: 26.06.2019**

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**Educational Qualification:**

Degree	Subject	College / University & Place	Year Completed
Ph.D	Mathematics	Bharathidasan University, Trichy	2018
M.Phil	Mathematics	School of Mathematics, Madurai Kamaraj University, Madurai	2002
M.Sc	Mathematics	E.M.G. Yadava Women's College, Madurai	2000
B.Sc	Mathematics	Raja Duraisingam Govt Arts College, Sivanganga	1998

**Specialization in Teaching:** Differential Equations, Operations Research, Discrete Mathematics, Real Analysis

**Specialization in Research:** Intuitionistic Fuzzy Topology

**Research Interests:** Nano Topology, Intuitionistic Fuzzy Nano Topology, Neutrosophic Topology

**Other Work Experience:**

Designation	Institution / Company	Year - From (month/year) To (month/year)
Assistant Professor	Fatima College, Madurai	July 2018 to June 2019
Assistant Professor	NPR College of Engineering College & Technology, Natham	July 2014 to December 2017
Assistant Professor	CR Engineering College, Madurai	August 2013 to June 2014
Assistant Professor	Raja College of Engineering and Technology, Madurai	January 2007 to August 2013
Lecturer	Vickram Engineering College, Enathi, Sivanganga Dist.	June 2006 to December 2006
Lecturer	Seethaiammal Engineering College, Sivanganga	January 2003 to July 2005

## PAPER PUBLICATIONS

- Published a paper titled **Intuitionistic Fuzzy Alpha Generalized Semi-Closed Sets, Thai Journal of Mathematics**
- Published a paper titled **Intuitionistic Fuzzy  $\alpha$ -Generalized Semi Continuous and Intuitionistic Fuzzy  $\alpha$ -Generalized Semi Irresolute Mappings, International Journal of Analysis and Applications.**
- Published a paper titled **On Alpha Generalized Semi-Closed mappings in Intuitionistic Fuzzy Topological Space, International Journal of Mathematics and its Applications.**
- Published a paper titled **Intuitionistic Fuzzy Strongly  $\alpha$ -Generalized Semi Closed Sets, The Journal of New Theory.**
- Published a paper titled **Intuitionistic Fuzzy  $\alpha$ -Generalized Semi Homeomorphisms, International Journal of Current Research in Science and Technology.**
- Published a paper titled **Intuitionistic Fuzzy Contra Alpha Generalized Semi Continuous Mappings, International Fuzzy Mathematics Institute.**
- Published a paper titled **Intuitionistic Fuzzy Alpha Generalized Semi Connectedness, International Journal of Pure and Applied Mathematics.**
- Published a paper title **Contra  $N\alpha$ -I-Continuity over Nano Ideals, Ratio Mathematica - UGC care list**
- Published paper title **Irresolute and its Contra Functions in Generalized Neutrosophic Topological Spaces, Neutrosophic Sets and Systems, An International Journal in Information Science and Engineering - UGC care list, SCOPUS.**
- Published paper title **Contra  $G_N$ -Continuity in Neutrosophic Generalized Topological Spaces, Periodico di Mineralogia - UGC care list, SCOPUS, Web of Science.**
- Published paper title **Weaker Forms of Nano Irresolute and Its Contra Functions, Ratio Mathematica - Journal of Mathematics, Statistics and Applications - UGC care list.**
- Published paper title **Impact of Connected spaces of Neutrosophic Generalized Topology across various disciplines, Tuijin Jishu/Journal of Propulsion Technology - UGC care list, SCOPUS.**

### **BOOK CHAPTER PUBLISHED**

- A Viewpoint for Making Decisions via Compact Spaces in Neutrosophic Generalized Topology, **Book Title:** Multi-Criteria Decision Making Models and Techniques: Neutrosophic Approaches; **Publisher: IGI Global: International Academic Publisher.**
- Significance and Applications of Neutrosophic Generalized Feebly Connected in Diverse Realms, **Book Title:** Neutrosophic and Plithogenic Inventory Models for Applied Mathematics; **Publisher: IGI Global: International Academic Publisher.**

### **INTERNATION/NATIONAL CONFERENCES**

- Presented a paper in the two day **National Seminar** on “Algebra, Topology and their Applications”, Ayya Nadar Janaki Ammal College, Sivakasi.
- Presented a paper in the **International Conference** on “Mathematical Computation and Modeling”, The Madura College, Madurai.
- Presented a paper in the **National Seminar** on “Fuzzy Algebra”, Government Arts College, Paramakudi.
- Presented a paper titled “**A Study on Irresolute and Contra Irresolute Functions in Nano Topological spaces**” in 22<sup>nd</sup> FAI **International Conference** on Mathematical Computational, Business and Tourism Analytics 2020.
- Participated in the National Conference on “**Enhancing the quality of Academics and Research in HEIs**” organized by the IQAC, The American College, Madurai on 28<sup>th</sup> January 2025.

### **WORKSHOP/SEMINAR/FDP/PARTICIPATION**

- Awarded as Mission10Xian (Learning Approach Practitioners Certificate) by ISTE
- Faculty Development Programme on Discrete and Fuzzy Mathematics
- Seminar on Mathematics for Advanced Research Techniques
- Faculty Development Programme on Mathematical Methods for Electrical Engineers
- Faculty Development Programme conducted by RIPE Institute, Chennai
- Participated in one day workshop on “Quality Improvement Cell” K.L.N. College of Engineering, Pottapalayam.
- **National Seminar** on “Nurturing Academic Integrity: Consistency & Transparency in Academic” at Fatima College on 17<sup>th</sup> September 2018.

- **NPTEL-Faculty Development Program** for Four weeks on “Mathematical Methods for Boundary Value Problems” organized by IIT-Kanpur from July-August 2019.
- National Level Faculty Development Webinar on “ICT Tools in Education” organized by RBVRR Women’s College, Narayanaguda, Hyderabad on 5<sup>th</sup> May 2020.
- Online International Faculty Development Program on “ Managing Stress, Teaching and Learning during This Period of Social Distancing” organized by Dhaka International University, Dhaka, Bangladesh and Knowledge Care, Bangalore on 20<sup>th</sup> May 2020.
- Online Workshop on "Mathematical Sciences for CSIR-NET/SET/GATE" organized by Sree Narayana Guru College, Coimbatore from 11<sup>th</sup> May 2020 to 15<sup>th</sup> May 2020.
- National Level Online FDP on R-Language organized by Auxilium College & Spoken Tutorial, IIT –Bombay from 13<sup>th</sup> May to 20<sup>th</sup> May 2020.
- Online Faculty Development Program on "FUZZY SETS AND SYSTEMS", organized by Patrician College of Arts and Science, Chennai on 16<sup>th</sup> May2020.
- Online workshop on "**Data Analysis using SPSS**" organized by The department of Mathematics, The American College from 28<sup>th</sup> May to 30<sup>th</sup> May 2020.
- National Level Webinar on “**Women at Risk Blossom**” organized by The American College, Madurai on 09<sup>th</sup> June 2020.
- National Level Webinar on “**Self Awareness and Social Responsibility during COVID 19 Pandemic**” organized by The American College, Madurai on 13<sup>th</sup> June 2020.
- National Level Webinar on “**Teacher Vs Learner: Impact of Covid’19 in Colleges**” organized by The American College, Madurai on 22<sup>nd</sup> July 2020.
- Online International Faculty Development Program on” Avant-Garde Trends in Mathematics” organized by Bannari Amman Institute and Technology, Sathyamangalam from 17<sup>th</sup> June to 23<sup>rd</sup> June 2020.
- One day webinar on “Recent Trends in Mathematics” organized by IIIT, Kottayam on 29<sup>th</sup> June 2020.
- Online Faculty Development Program on "Application of Mathematics in Diverse Fields", organized by Anand Institute of Higher Technology,Kazhipattu, Chennai from 29<sup>th</sup> June to 4<sup>th</sup> July 2020.
- **Two weeks online Faculty Development Program** on “Advanced Concepts for Developing MOOCs” MHRD-Sponsored, organized by Teaching Learning Centre(TLC), Ramanujan College, University of Delhi, from 2<sup>nd</sup> July to 17<sup>th</sup> July 2020.
- National Level Webinar on “ **Methods of Accessing Research, Innovations & Extension in**

**NAAC Accreditation**” organized by NAAC, Criterion III, The American College, Madurai on 28<sup>nd</sup> August 2020.

- Two Days International Virtual Workshop on “**Innovative Resources and IPR in Research**” held 8<sup>th</sup> and 9<sup>th</sup> October 2021.
- Presented a paper titled “**A Study on Irresolute and Contra Irresolute Functions in Nano Topological spaces**” in 22<sup>nd</sup> FAI **International Conference** on Mathematical Computational, Business and Tourism Analytics 2020, on 21<sup>st</sup> December 2020.
- Webinar on “**Lead the Life in Style**” organized by Women’s Forum, The American College, Madurai held on 01<sup>st</sup> February 2021.
- National Webinar on “**A Pandemic year for Women: What are we learning**” organized by The American College, Madurai on 30<sup>th</sup> June 2021.
- International Webinar on “Promoting IKIGAI to Arise & Shine” organized by The American College, Madurai on 29<sup>th</sup> July 2021.
- Webinar on “**Intellectual Property Rights-Start up and Innovation**” organized by Department of Mathematics, The Standard Fireworks Rajaratnam College for Women, Sivakasi held on 22<sup>nd</sup> September, 2021.
- Webinar on “**An Art of Writing Research Article**” organized by Department of Mathematics, The Standard Fireworks Rajaratnam College for Women, Sivakasi held on 04<sup>th</sup> February 2022.
- Webinar on “**ICT Initiatives of GOI with Special Reference to MOOCs and SWAYAM**” organized by Department of Mathematics, The Standard Fireworks Rajaratnam College for Women, Sivakasi held on 09<sup>th</sup> February 2022.
- Webinar on “**Stressing over Stress**” organized by Department of Mathematics, The Standard Fireworks Rajaratnam College for Women, Sivakasi held on 10<sup>th</sup> February 2022.
- Faculty Orientation Programme, organized by Internal Quality Assurance Cell, The American College, Madurai held on 20<sup>th</sup> September 2022.
- International webinar on “**Neoteric Applications in Mathematics**”, organized by Thiagarajar College, Madurai held on 8<sup>th</sup> and 9<sup>th</sup> November 2022.
- One-day Interactive Workshop on Art & Science of Methodical Scientific writing and Publishing in a High impact Journal, organized by The American College held on 6<sup>th</sup> March 2023.
- Two-Day Online Workshop on “**Data Analytics and Machine Learning through Zero Coding**”, organized by the Division of Mathematics, School of Advanced Sciences, Vellore Institute of Technology, Chennai on 26 & 27 June 2023.
- International Workshop series on “**AIDE – Artificial Intelligence**” conducted by the ASIA PACIFIC UNIVERSITY UNESCO Chair, Malaysia, organized by The American College and CSI Jeyaraj Annapackiam College of Nursing and Allied Sciences 23<sup>rd</sup> November to 26<sup>th</sup> November 2024 held at The American College, Madurai, Tamil Nadu.

## **LECTURE DELIVERED**

- Delivered Special Lecture on “**Differential Equations and its Applications**”, at Mannar College (Autonomous), Madurai on 13<sup>th</sup> September 2018.
- Delivered Special Lecture on “**Differential Equations in Different Fields**”, at Senthamarai College, Madurai on 6<sup>th</sup> February 2019.
- Delivered Special Lecture on “**Fundamentals of Mathematical Analysis**”, at Sermathai Vasan College for Women, Madurai on 7<sup>th</sup> March 2021.
- Resource Person for “**Hands on Training on Google Classroom**”, at C.S.I Jeyaraj Annapackiam College of Nursing and Allied Sciences Pasumalai, Madurai on 29<sup>th</sup> March 2021.
- Delivered Special Lecture on “**Mathematical Tools for Engineering Analysis**”, at Solamalai College for Engineering, Madurai on 31st July 2023.

## **Other Activities / Academic Credentials:**

### **Organizing Secretary of:**

- Two Days International Virtual Workshop on “Innovative Resources and IPR in Research”, held on 08<sup>th</sup> - 09<sup>th</sup> October 2021 organized by the PG & Research Department of Mathematics, The American College, Madurai, Tamil Nadu, India.
- Seminar on “Neutrosophy – An Introduction”, held on 25<sup>th</sup> August 2022 organized by the Department of Mathematics, The American College, Satellite Campus, Madurai, Tamil Nadu, India
- ACSC MATH CONVIVIUM - Intra collegiate Competitions, held on 29.09.2022 organized by the Department of Mathematics, The American College, Satellite Campus, Madurai, Tamil Nadu, India.
- Career goals and higher studies - A Road Map to Success”, held on 22.12.2022 organized by the Department of Mathematics, The American College, Satellite Campus, Madurai, Tamil Nadu, India.
- One day School Programme “Way to Win” for XII students”, held on 28.01.2023 organized by the Department of Mathematics and Physics, The American College, Satellite Campus, Madurai, Tamilnadu, India.
- Seminar on “The Need and Scope of Mathematics”, held on 12<sup>th</sup> April 2023 organized by the Department of Mathematics, The American College, Satellite Campus, Madurai, Tamil Nadu, India
- National Workshop on “Mathematics and Statistics for Data Analytics”, held on 21<sup>st</sup> and 22<sup>nd</sup> June 2023 organized by the Department of Mathematics, The American College, Satellite Campus, Madurai, Tamil Nadu, India.
- Seminar on “Amazing tools in Algebraic Structure”, held on 3<sup>rd</sup> August 2023 organized by the Department of Mathematics, The American College, Satellite Campus, Madurai, Tamil Nadu, India.

- Seminar on “Mathematics Applications in Remote sensing and Renewable Energy” held on July 24<sup>th</sup> 2024, organized by the Department of Mathematics, The American College, Satellite Campus.
- Seminar on “Bridging Gender Gaps: A Perspective on Equality and Inclusion” held on 30<sup>th</sup> January 2025, organized by the Department of Mathematics, The American College, Satellite Campus.

### **ADDITIONAL PROFICIENCY**

- ❖ **TNSET** qualified in the year 2017,
- ❖ Certified in DCA (Diploma in Computer Application),
- ❖ Awarded as Mission10Xian (Learning Approach Practitioners Certificate) by ISTE
- ❖ Certified in DCS (Diploma in Computer Science).