

CURRICULUM VITAE

Personal data

Dr. M. Selvarathi
Assistant Professor
Department of Mathematics
Karunya Institute of Technology and Sciences
Coimbatore-641114
Mobile: +0422 2614012
Email: selvarathi@karunya.edu



Education

Ph.D (Mathematics) – Contributions to Fuzzy Automata	2018
Karunya Institute of Technology and Sciences, Coimbatore, India.	
M.B.A. (Personnel)	2008
Alagappa University, Karaikudi, India.	
M.Phil (Mathematics)	2004
M.S. University, Tirunelveli, India.	
M.Sc (Mathematics)	2002
APC Mahalakshmi College for Women, M.S. University, Thoothukudi, India.	
B.Sc (Mathematics)	2000
St. Mary's College, M.S. University, Thoothukudi, India.	

Research : Areas of Expertise

Fuzzy Mathematics – Fuzzy Automata – Intuitionistic Fuzzy Mathematics

Ph.D Guidance:	Ongoing – 3		
Conferences/ Workshops:	Presented – 14	Attended – 18	Resource Person – 4

Teaching

Since 2007	Assistant Professor, Karunya Institute of Technology and Sciences, Coimbatore, India.
2005 – 2007	Lecturer, Infant Jesus College of Engineering, Keelavallanadu, Tamil Nadu, India
2005	Lecturer, Lady Doak College, Madurai, Tamil Nadu, India
2004	Teacher, TVS Lakshmi Matriculation Higher Secondary School, Madurai, India

Journal Publications (Selected)

1. "Algebraic Properties of Implication-Based Intuitionistic Fuzzy Finite State Machine over a Finite Group", **Journal of Discrete Mathematical Sciences & Cryptography**, Vol 24., No 1., (2021), 195 – 207.
2. "Equivalence Relations on Implication-Based Fuzzy Automaton over a Finite Group", **Advanced in Mathematics: Scientific Journal**, Vol 9., No. 10 (2020), 8869 – 8881.
3. "Product of Implication-Based Intuitionistic Fuzzy Semiautomatons over Finite Groups", **New Mathematics and Natural Computation**, Vol. 15, No. 3 (2019), 503 – 515
4. "Product of Implication-Based Fuzzy Subgroups of Finite Groups", **International Journal of Mechanical Engineering and Technology**, Vol 9, Issue 9, (2018), 262 - 271.
5. "Generalisation of Implication-Based Fuzzy Semiautomaton over a Finite Group", **Applied Mathematics & Information Sciences**, Vol. 11, No. 4, (2017), 1105 – 1113.
6. "Implication-Based Fuzzy Semiautomaton of a Finite Group and its Properties", **AIP Conference Proceedings**, 1739, 020010 (2016).

Online Courses

1. **Mathematics for Machine Learning: Linear Algebra** offered by Imperial College London through **Coursera**
2. **Mathematics for Machine Learning: Multivariate Calculus** offered by Imperial College London through **Coursera**
3. **Mathematics for Machine Learning: PCA** offered by Imperial College London through **Coursera**
4. **High Dimensional Data Analysis** offered by HarvardX through **EdX**

Skills:

Python Programming, R Programming, Weka, Matlab, SPSS, Mathematica