



FACULTY PROFILE TEMPLATE

Please ensure that this Template is 'Thoroughly Followed/Replicated' in your profile

- ❖ **Please mention year of passing (Educational Qualifications)**
- ❖ **In case of Updating Existing Faculty profiles, please send the new additions in 'Highlighted Form/Text'.**

Basic Details:

- **Name:** Dr.K.ANITHA
- **Designation:** ASSISTANT PROFESSOR-SG
- **Phone Number:** - 9941135577
- **Email ID:** - anithamaths2019@gmail.com
- **Area or Subject:** Rough Set Theory and its applications.
- **Affiliation:** Department of Mathematics, Ramapuram Campus, SRM Institute of Science and Technology

Educational Details:

- **Degree** – M.Sc, M.Phil.,Ph.D.,
- **Area or Subject** – Mathematics
- **University** – Madurai Kamaraj University, Manonmaniam Sundaranar University
- **Awarded Year** –

Ph.D., in Mathematics, Manonmaniam Sundaranar University, 2016

M.Phil., in Mathematics, Madurai Kamaraj University, 2007.

M.Sc, in Mathematics, Madurai Kamaraj University, 2004

Other Details:

Courses:

Applied Operations Research, Probability and Random Process, Probability and Queuing Theory, Discrete Mathematics, Statistics for Management, Applied Mathematics for communication Engineers.

Research Interests: Rough Set Theory and its Applications, Number Theory, Soft Computing.

Selected Publications:

- With J.Komathi "Study of Fuzzy Magic Graph on Intuitionistic Space" International Journal of Recent Technology and Engineering, 7(5),2019.
- With M.Thangeswari, "A short notes on properties of Rough Ideals", Journal of Applied Science and computations, 6(1),2019.
- K.Anitha, "Mathematical Perception in Big data Analytics", IAETSD Journal of Advanced Research in Applied Sciences,5(2),2018.
- With B.Srirekha " Topological Structures of Fuzzy-Rough Sets", International Journal of Pure and Applied Mathematics,119(9),2018.
- K.Anitha, "Role of Kalman Filters in Probabilistic Algorithm", International Journal of Pure and Applied Mathematics,118(11),2018.
- With B.R.Tapas Babu, "Fuzzy-Rough Set Feature Selection Algorithm", Frontiers: Journal of Social, Technological and Environmental Science,6(1),2017.
- With N.Kalaivani, D.Saravanakumar, G.Sai Sundara Krishnan,"On γ -Operations in Soft Topological Spaces",Far East Journal of Mathematical Sciences,101(9),2017.
- K.Anitha, "Scaling-up High Dimensional Data by Rough Boolean Reasoning", Asian Journal of Research in Social Sciences and Humanities.6(1),2016.
- With P.Venkatesan, "Properties of Hesitant Fuzzy Sets", Global Journal of Pure and Applied Mathematics,12(1),2016
- K.Anitha, "Rough Neural Network", Asian Journal of Research in Social Sciences and Humanities.6(2),2016
- K.Anitha, "Role of Rough sets in Soft computing", International Journal of Applied Engineering Research,10(87),2015.
- K.Anitha, "Biological Data Mining – A Novel Attribute Reduction based on Rough Set Theory", International Journal of Applied Engineering Research,10(80),2015.
- With P.Venkatesan , " Rough Set Theory Approach to Generating Classification Rules", International Journal of Computational Intelligence and Informatics,4(3),2014.
- K.Anitha , "Rough Set Theory on Topological Spaces". Lecture notes in Artificial Intelligence, Springer,2014
- With P.Venkatesan, "Feature Selection by Rough – Quick Reduct Algorithm", International Journal of Innovative Research Science Engineering & Technology,2(1),2013
- With P.Venkatesan, "Gene Selection Based on Rough Set Theory", International Journal of computing algorithm, 1(2),2012

Papers Presented

- With M.Thangeswari, “Rough set based optimization Techniques” International conference on Emerging Trends in Engineering, Science and Technical Education, Chennai Institute of Technology, 2019.
- With I.Mumtaj Fathima “On the Co Zero Divisor Graph of Zp^nq “, National Conference on Fluid Mechanics, VIT-Chennai, 2019.
- With B.R.Tapas Babu, “Feature Extraction in High Dimensional Data using Rough Neural Network”, The 4th International Conference on Green Technologies for Power Generation, Communication and Instrumentation, St.Peter’s University,2017.
- K.Anitha,” Rough Clustering Techniques By Finding the Reducts”, The 5th International Conference on Computer Engineering and Mathematical Sciences, Science and Knowledge Research Society, Malaysia, 2016.
- K.Anitha, “Handling Big data through Rough Clustering”, International Conference on Advances In Scientific Computing, IIT, Madras, 2016
- K.Anitha, “Role Of Rough Sets In Data Analysis”, 5th Annual International conference on Computational Mathematics, Computational Geometry & Statistics, Global Science and Technology Forum, Singapore,2016
- With P.Venkatesan, “Biological Data mining Through Rough Sets”, National Conference on Frontiers in Applied Sciences and Computer Technology, National Institute of Technology, Trichy,2015.
- K.Anitha, “Rough Set Theory on Topological Spaces”, IXth International Conference on Rough Sets and Knowledge Technology, Tongji University, Shanghai, China,2014.
- With P.Venkatesan, “Rough Set Theory On Image Segmentation”, National Conference on Pure and Applied Mathematics, VIT-Chennai, 2014
- With P.Venkatesan, “Rough Set Approach for Generation of Classification Rules for Cancer Diagnosis”, XII Biennial Conference of International Biometric Society on “Recent Advances In High Dimensional Data Analysis, National Institute for Research in Tuberculosis,2013.
- With P.Venkatesan,” Fuzzy-Rough Applications in Medical Diagnosis”, National Level Conference on Recent Trends in Advanced Mathematics, Easwari Engineering College, Chennai,2012.
- With P.Venkatesan, “Fuzzy-Rough Attribute Reduction”, International Conference On “Mathematics-Engineering And Business and Management, Stella Maris College, Chennai,2012.

Working Papers:

- With I.Mumtaj Fathima, B.Jaganathan, “On the Co zero –Divisor of Graph of Z_n ”, Iranian Journal of Mathematical Sciences and Informatics,2019.
- K.Anitha, “Rough Algebraic Structures in approximation spaces”, Test Engineering Management, 2019

Academic Experience:

- Assistant Professor-SG, Ramapuram Campus, SRM Institute of Science and Technology from December 2019 onwards
- Professor- S.A.Engineering College, 2018-2019
- Associate Professor- S.A.Engineering College, 2016-2018
- Assistant Professor- S.A.Engineering College,2012-2016.
- Lecturer- Mahalashmi Women’s College of Arts & Science,2006-2012.

Workshops /Seminars/Conferences:

- Organized First, Second and Third National Conference on Emerging Trends in Mathematical Sciences at S.A.Engineering College, Chennai.
- Participated GIAN-Fractal Geometry: Foundations to Frontiers- IIT Madras
- Participated Short-term course on “Self-Awareness and Higher Goals in Education-IIT-Madras
- Delivered Guest Lecture on “Applications Of Calculus In Engineering”- VIT –Chennai campus
- Invited talk -IEEE Sponsered Workshop On “Mathematical Modelling Of Wireless Sensor Networks- S.A.Engineering College
- Delivered Guest Lecture on “Engineering Mathematics-II ” at SVIST, Chennai
- Published 4 books and 1 book chapter.

Achievements and Awards:

- State Level Eligibility Test (SET)- Mathematical Sciences, 2017
- Distinguished women Educator & Scholar By National Foundation for Entrepreneurship Development -2018
- Young Women Scientist-2017 By Dr.Kalam Educational Trust, 2018

Memberships:

- Life Member in FATER Academy of India,2019
- Life Member in National Foundation For Entrepreneurship Development,2018
- Life Member in International Association of Engineers,2017
- Member in International Rough Set Society,2015
- Life Member in The Indian Society for Technical Education,2012

