



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. Shakeela Sathish
- **Designation:** Professor & HoD
- **Phone Number:** 044 43923067
- **Email ID:** shakeelas.rmp@srmist.edu.in
- **Area or Subject:** Mathematics
- **Affiliation:** Department of Mathematics , Ramapuram Campus, SRM Institute of Science and Technology

Educational Details:

- **Degree** – M.Sc., M.Phil, PhD.
- **Area or Subject** – Mathematics
- **University** – Mangalore University, MK University , SRM University
- **Awarded Year** – **M.Sc., Mathematics, Mangalore University, 1994**
M.Phil., Mathematics, MK, University, 1999
Ph.D. in Fuzzy Optimization, SRM University, 2014

Other Details:

Courses:

Advanced Calculus and Linear Algebra, Advanced Calculus and Complex Analysis, Transforms and Boundary Value Problems, Operations Research, Probability and Queuing Theory, Probability and Statistics, Discrete Mathematics, Probability and Random Processes, Operational Research.

Research Interests: Fuzzy Optimization

Selected Publications:

- With K. Ganesan, "Fuzzy Flow Shop Scheduling Problems with transportation time & weightage of jobs", International journal of Advanced Science and Technology (Accepted)
- With Debabrata Datta, "Application of Fractals to Detect Breast Cancer", Journal of Physics: Conference Series, doi:10.1088/1742-6596/1377/1/012030, 1377 012030, (2019)
- With Debabrata Datta, "Algebra of Fuzzy Random Variable and its Application to Science and Engineering Problem- Radon Transport from Soil into Building", International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, 8(10S), pp. 218-224, (2019)
- With K. Ganesan "Scheduling of flow shop problems on 3 machines in fuzzy environment with double transport facility", AIP Conf. Proc.1739, 020050(2016)
- With K. Ganesan, Scheduling of flow shop problems in fuzzy environment with single transport facility including fuzzy processing time, Indian Journal of Science and Technology, 7(3) pp. 218-224 (2015)
- With K. Ganesan, A new approach to minimize the rental cost for fuzzy flow shop scheduling under a specified rental policy including fuzzy transportation time", European Journal of Scientific Research, 118(2), pp. 267-276, (2014).
- With Ganesan K, A novel approach for the fuzzy fowshop scheduling problem with setup time to minimize the rental cost", European Journal of Scientific Research, 111(1), pp. 57-68, (2013).
- With K. Ganesan, Flow Shop Scheduling Problem to minimize the Rental Cost under Fuzzy Environment, Journal of Natural Sciences Research, 2 (10), pp. 62-72, (2012)
- With K. Ganesan, Fully Fuzzy Time-Cost Trade-Off in a Project Network - A New Approach, Mathematical Theory and Modeling, 2 (6), pp. 53- 65, (2012).
- With K. Ganesan, A simple approach to fuzzy critical path analysis in project networks, International Journal of Scientific & Engineering Research, 2 (12), pp. 01- 06, (2011)

Papers communicated

- Shakeela Sathish, D. Datta, "Development of Fuzzy Multi Criteria Decision Making Method Using Performance Index Algorithm and Similarity Relation between Fuzzy Numbers" communicated to IEEE Transaction on Fuzzy Systems - Special Issue on Deep Fuzzy Models (2018)
- Shakeela Sathish, D. Datta, "Development of Fuzzy Multi Criteria Decision Making Algorithm to Select Suitable Site for Launching a Manufacturing Industry" communicated to Advances in Applied Mathematics (2018)

Papers Presented:

International Conferences

- With K. Ganesan, "Scheduling of flow shop problems on 3 machines in fuzzy environment with double transport facility" Presented at the International Conference on Mathematical sciences and Statistics- ICMSS 2016 held at Putra University, Kaula lampur , Malaysia on 26th to 28th January 2016.
- With K. Ganesan, "Scheduling of Flow Shop Problems in Fuzzy Environment with weightage of jobs " Presented at the 7th European Congress of Mathematics- 7ECM held at TU, Berlin, Germany from July 18 - July 22, 2016

National Conferences:

- With Ganesan K, "Scheduling of flow shop problems in fuzzy environment with single transport facility including fuzzy processing time", Presented at the National Conference on Recent Trends in Advanced Mathematics, SRM University, Kattankulathur, (2014).
- With K.Ganesan and S. Elumalai, On the Solution of a System of Fuzzy Linear Equations, Presented at the National Conference on Recent Trends in Advanced Mathematics (NCRTAM 2010) on 15 October 2010.

Working Papers:

- Fuzzy Flow Shop problem with double transport facility including fuzzy processing time to minimize the rental cost
- Bicriteria Fuzzy Flow Shop problem with setup time and transportation time to minimize the rental cost
- Open Shop problem with transportation time to minimize the rental cost under Fuzzy Environment

Work in Progress:

- With K. Ganesan "On the solution of fully fuzzy linear equations".

12. Workshop/ Conferences attended:

International Conferences

- International virtual Conference on “Progress in Mathematics towards Industrial Applications” held at SRM IST, Ramapuram campus, on 6th and 7th November 2020.
- International Conference on Mathematical Sciences and Statistics- ICMSS 2016 held at Putra University, Kaula lampur , Malaysia on 26th to 28th January 2016.
- 7th European Congress of Mathematics- 7ECM held at Technique Universitate, Berlin, Germany from July 18 to July 22, 2016.
- International Conference on Mathematical Methods and Computation Jamal Mohamed College (Autonomous), Thiruchirappalli, 24th-25th July-2009.

National Conferences

- National Conference on “Progress in Mathematics towards Industrial Applications” at SRM IST, Ramapuram, 27th & 28th September 2019
- National Conference on “Recent Trends in Fuzzy Mathematics and Its Applications” at SRM IST, Ramapuram, 28th & 29th October 2018.
- National Conference on Mathematical Techniques and their Applications, at SRM University, Kattankulathur, 27th & 28th Jan-2017,
- National Conference on Mathematical Techniques and Its Applications, at SRM University, Kattankulathur, 04th & 05th Jan-2016,
- National Conference on Mathematical Techniques and Its Applications, at SRM University, Kattankulathur, Jan-2015.
- National Conference on Recent Trends in Advanced Mathematics, at SRM University, Kattankulathur, Jan 2014.
- National Conference on Mathematical Techniques and its Applications, at SRM University, Kattankulathur, Feb. 2013.
- National Conference on Mathematical Techniques and its Applications, at SRM University, Kattankulathur, Feb. 2012

- National Conference on Mathematical Techniques and its Applications, at SRM University, Kattankulathur, Feb. 2011.
- National Conference on Mathematical Techniques and its Applications, at SRM University, Kattankulathur, Feb. 2010
- National Conference on Recent trends in advanced Mathematics, at Easwari Engineering College, Ramapuram, 15th Oct-2010

Workshops

- Workshop on “ Differential Equations and Its Applications”, at SRMIST, Ramapuram, 7th March-2019
- Workshop on “Fluid Dynamics and Its Applications”, at SRMIST, Ramapuram, 12th April-2018
- Workshop on “Fuzzy Set Theory and Its Applications”, at SRM University, Ramapuram, 09th Mar-2017
- Workshop on “Graph Theory and Its Applications” at SRM University, Ramapuram, 12th April 2016
- Mission 10X, SRM University, Kattankulathur, 15th -19th Nov 2011,

Academic Experience:

- Professor, Ramapuram Campus, SRM IST, Chennai-89, 2018 onwards
- Asst. Prof. (S.G.), Ramapuram Campus, SRM University, Chennai-89, 2009-2018
- Lecturer, Ramapuram Campus, SRM University, Chennai-89, 2004-2009.
- Lecturer, Valliammai Engineering College, Kattankulathur, 2000-2001.
- Lecturer, M.G.R. Engineering College, Maduravoyal, Chennai, 1999-2000.
- Lecturer, P.P.C., Udupi, Karnataka, 1994-1995, 1996-1999.

Memberships:

- Member in Indian Science Congress Association (ISCA) , 2009
- ISTE – Life member, 2020

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