Name   **:** M. Revathy

Designation   **:** Assistant Professor

Department   **:** Mathematics

Qualification   **:** M. Sc., M. Phil., (Ph. D.)

Experience   **:** Teaching: 7 Years

Area of Specialization(s)   **:** Fuzzy Sets, Operations Research, Numerical Methods

Email (Official ID)   **:** revathy@drngpasc.ac.in

Academic Qualifications

Degree	Branch	Institution / University Name	Year of Graduation
Ph. D.	Mathematics	Nirmala College for Women	Pursuing
M. Phil.	Mathematics	CMS College of Science and Commerce	2013
M. Sc.	Applied Mathematics	P. S. G. College of Technology	2011
B. Sc.	Mathematics	P.S.G.R. Krishnammal College for Women	2009

Additional Qualifications

Diploma / Vocational / Certification	Area of Specialization	Institution / University / Agency Name	Year
Diploma	Embedded System and Design	Bharathiar University, Coimbatore	2009

Research Publications (Indexed)

International

1) M. Revathy, Dr. A. Sahayasudha, **Linear Programming Problem using Fuzzy Z Numbers to find Optimality under Uncertainty in Vegetable Cropping**, International Journal of Pure and Applied Mathematics, Vol. 119, Issue. 18, pp. 3293-3300, September 2018, ISSN. 1317-3395 (Indexed in SCOPUS).

2) M. Revathy, Dr. A. Sahayasudha, **Multi-Objective Stochastic Intutionistic Fuzzy Linear Programming Problem**, International Journal of Mathematics and Computer Applications Research, Vol. 8, Issue. 3, PP. 25-32, June 2018, ISSN (P). 2249-6955, ISSN (E). 2249-8060 (Indexed in UGC).

3) M. Revathy, Dr. A. Sahayasudha, **Analysing MOIFLPP using Heptagonal Intutionistic Fuzzy Number**, International Journal of Creative Research Thoughts, Vol. 5, Issue. 3, ISSN. 2320-2882, September 2017, (Indexed in Google Scholar).

4) Dr. A. Sahayasudha, M. Revathy, **Analysing an Intuitionistic Fuzzy Linear Programming Problem using (A,B)-Cuts**, International Multidisciplinary Research Foundation, Vol. 5, Issue. 2, pp. 176-168, December 2016, ISSN. 2278-8697 (Indexed in Google Scholar).

5) Dr. A. Sahayasudha, M. Revathy, **Arithmetic Operations on Intuitionistic Hexagonal Fuzzy Numbers using α cut**, International Journal on Recent and Innovation Trends in Computing and Communication, Vol. 5, Issue. 6, pp. 696-784, June 2017, ISSN. 2321-8169 (Indexed in UGC).

6) Dr. A. Sahayasudha, M. Revathy, **A New Ranking on Hexagonal Fuzzy Numbers**, International Journal of Fuzzy Logics and System, Vol. 6, Issue. 4, DOI: 10.5121/ijfls.2016.6401, October 2016, (Indexed in Google Scholar).

National

1) M. Revathy, Dr. A. Sahayasudha, **An Interval Valued Linear Programming Problem with Trapezoidal Z Fuzzy Number**, Paripex - Indian Journal Of Research, Vol 8, Issue-1 , IF : 6.761, IC Value : 86.18, January-2019, ISSN - 2250-1991, (Indexed in UGC).

2) M. Revathy, Dr. A. Sahayasudha, **Solving Linear Programming Problem by means of Fuzzy Z Numbers**, IOP Conf. Series: Journal of Physics: Conf. Series 1139 (2018) , (Indexed in SCOPUS).

3) M. Revathy, Dr. A. Sahayasudha, **Optimization of Requirement of Personnel in A Hospital using Neutrosophic Numbers**, Journal of Applied Science and Computations, Vol. 5, Issue. 12, pp. 1875-1880, December 2018, ISSN. 1076-5131, (Indexed in UGC).

Other Publications: International / National Journals

1) Dr. A. Sahayasudha, M. Revathy, **Optimal Solution of Hexagonal Fuzzy Transportation Problem using new Ranking Method**, Aryabatta Journal of Mathematics and Informatics, Vol. 8, Issue. 2, December 2016, ISSN. (o).2394-9309, ISSN.(p). 0975-7139.

2) Dr. A. Sahayasudha, M. Revathy, **Solving FLPP with Symmetric Trapezoidal Fuzzy Numbers**, International Journal of Informative and Futuristic Research, Vol. 3, Issue. 10, pp. 3753-3762, June 2016, ISSN No. 2347- 1697.

3) S. Manimekalai, S. Gokilamani, M. Revathy, **Using PDE Mathematical model for Airodynamics of Lifting Surfaces in Non – Uniform Motion**, International Journal of Scientific Research and Management, Vol. 3, Issue 12, December 2015.

4) M. Revathy, **An Advanced method for solving Fuzzy Transportation Problem with Minimum Cost using Robust Ranking Method(RRT)**, International Journal of Science and Research, Vol. 4, Issue. 4, April 2015.

5) Mr. B. Satheesh Kumar, M. Revathy, **Comparative Study of Various Methods for Solving Transportation Problem**, International Journal of Science and Research, Vol 3, Issue 9, pp-244-246, Impact Factor 1.8651.September 2014, ISSN/ISBN No. 2277- 8179.

6) Mr. J. Ganeshshivakkumar, M. Revathy, **Steady State Analysis of a Non-Markovian Bulk Queueing Model with Multiple Vacation , Accessible Batches, Setup Times with N-Policy and Closedown times**, International Journal of Engineering Research and Technology, (Vol 2 ,Issue 7), pp-586-595, Impact Factor 1.76, July- 2013, ISSN/ISBN No. 2278- 018.

Presentations in Conference

1) **Applications in Functional Analysis**, State level Seminar on Advanced trends in Mathematical Sciences, Dr. N.G.P. Arts and Science College, Coimbatore, 17-Feb-12.

2) **Precolouring Extensiion for Interval Graphs**, National Conference in Pure and Applied Mathematics, Dr. N.G.P. Arts and Science College, Coimbatore, 14-Sep-15 and 15-Sep-15.

3) **Using PDE Mathematical Model for Airodynamics of Lifting Surfaces in Non – Uniform Motion**, National Conference on Emerging Trends in Mathematical Science, KG College of Arts and Science, 20-Feb-16.

4) **Fuzzy Inventory Model with Allowable Shortage**, International Conference on Fuzzy Queueing Theory and its Application, Bharathidasan College of Arts and Science, 3-Sep-16 .

5) **A MOIFLPP Analysis using Heptagonal Intutionistic Fuzzy Number**, Annual Research Congress, Nirmala College for Women, 6-Dec-17.

6) **A MOIFLPP Solved by means of Arithmetic Averages**, International Conference On Current Scenario In Pure And Applied Mathematics, Kongu Nadu Arts and Science College, 14 to 16-Feb-18.

7) **Stochastic Fuzzy Intutionistic Linear Programming Problem solved by using Pareto Distribution**, National Conference on Recent Trends in Applied Mathematics, Bharathiar Univeristy, 22 & 23-Mar-18.

8) **Solving Linear Programming Problem by means of Fuzzy Z Numbers**, International Conference on Applied and Computational Mathematics, Erode Arts and Science College, 10-Aug-18.

9) **Optimization of Requirement of Personnel in A Hospital using Neutrosophic Numbers**, Annual Research Congress, Nirmala College for Women, 6-Dec-18.

Participation in Conference

National

1) **Achieving Academic Excellence through Internal Quality Assurance Cell**, Dr. N.G.P. Arts and Science College, 9 & 10-Dec-11.

2) **Emerging Education Models for 21st Century Learner (NCEEM – 2015),** Association of Principals of Colleges of Bharathiar University, 1-Aug-15.

Participation in Seminars

1) **Neoteric Notion is Algebra**, Nandha Arts and Science College, 21-Sep-16.

Participation in Workshop

1) **Technical Document Preparation using LATEX,** Dr. N.G.P. Institute of Technology, 11-Oct-11.

2) **LATEX**, JSJE Students Chapter, RVS College of Engineering and Technology, 24-Aug-14.

3) **MATLAB**, Dr.N.G.P Arts and Science College, 20-Dec-12.

4) **Sequence, Series and Hands on Training in Latex**, Kathir college of Engineering, 5-Sep-13.

5) **Mathematical Software**, Dr. N.G.P. Arts and Science College, 9 to 11-Jan-14.

6) **Hands on Training on LATEX Documentation Tool**, IETE Student Chapter, Sri Ramakrishna Engineering College, Coimbatore, 7 & 8-Sep-18.

7) **Finite Element Method for Beginners and Engineers**, Dr. N.G.P. Arts and Science College, 20 & 21-Dec-18.

Participation in Faculty Development Programme

1) **Quality Initiatives in Higher Education**, Dr. N.G.P. Arts and Science College, Coimbatore, 3 to 9-Dec-18.

Conference / Seminar / Workshop Organized

1) Committee Member, State level Seminar, Dr. N.G.P. Arts and Science College, Coimbatore, 9 & 10-Dec-11.

2) Committee Member, State level Seminar on Advanced trends in Mathematical Sciences, Dr. N.G.P. Arts and Science College, Coimbatore, 17-Feb-12.

3) Committee Member, National Level Conference, Dr. N.G.P. Arts and Science College, Coimbatore, 7-Feb-13.

4) Committee Member, National Level Conference, Dr. N.G.P. Arts and Science College, Coimbatore, 25-Sep-13.

5) Committee Member, International Conference, Dr. N.G.P. Arts and Science College, Coimbatore, 11 & 12-Aug-14.

6) Committee Member, Dr. N.G.P. Arts and Science College, Coimbatore, 14 &15-Sep-15.

Membership in Professional Bodies

Name of the Professional Body	Nature of membership	Duration
The Association of Mathematics Teachers of India (AMTI)	Life-time	-

Awards / Honors

Awards / Honors	Agency / Institute	Year of Award
Best Paper Award	International Journal of Mathematics and Computer Applications Research	2018