

**Name** : Dr. M.Sangeetha

**Designation** : Professor

**Department** : Mathematics

**Qualification** : M. Sc., M. Phil., B.Ed., PGDOR., Ph.D.

**Experience** : College Teaching : 19 years 8 month Research:7years  
School Teaching : 2 years

**Area of Specialization(s)** : Fuzzy Operations Research

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### Academic Qualifications

Degree	Branch	Institution / University Name	Year of Graduation
Ph.D.	Mathematics	Chikkanna Government Arts College, Tirupur	2018
M. Phil.	Mathematics	Government Arts College, Coimbatore	2009
M.Sc.	Mathematics	Government Arts College, Coimbatore	2001
B.Sc.	Mathematics	Government Arts College, Coimbatore	1999
B.Ed.	Mathematics	St. Marks B.Ed. College, Coimbatore	2010

### Additional Qualifications

Dip[loma/Vocational/ Certification	Area of specialiozation	Institution/University/Agency name	year
PGDOR	Operations research	Nirmala College for Women, Bharathiar University, Coimbatore	2015
Online certificate	Graph Theory	NPTEL	2020
Online certificate	Basics of python	Infosys springboard	2022

## Research Guidance

Programme	No.of Scholars	Completed	Pursuing
Ph.D	4	-	4
M.Phil	1	1	-
M.SC Project	6	5	1

## Research Publications(Indexed)

### International

- M.Sangeetha,P.Rajarajeswari,**Fuzzy Largest Cost Entry method of Transportation Problem using Heptagonal fuzzy numbers**, Nonlinear Studies, www.nonlinearstudies.com, Volume 24, Issue no.4, pp.1-8, November-2017, ISSN:1359-8678, (Scopus Indexed)
- M. Sangeetha, P. Rajarajeswari, **Multi-Objective Fuzzy Fully Linear Programming Transportation Problem**, Mathematical Sciences International Research Journal, Volume 6, issue 2, pp.135-141, 2017, ISSN 2278-8697, August-2017, (IMRF) (Scopus Indexed).
- P. Rajarajeswari, M. Sangeetha, **Multi-Objective Fuzzy Fully Linear Programming Transportation Problem Using Ranking function**, Mathematical Sciences International Research Journal, ISSN:1311-8080 (printed version), December 2017, ISSN:1314-3395 (online version), Bharathiar university (IJPAM). (Scopus Indexed)
- M.Sangeetha, **Similarity Measure Mode of Intuitionistic Fuzzy Transportation Problem**, Mathematical Sciences International Research Journal, December 2017, ISSN: 1311-8080 (printed version), 1314-3395 (online version), Bharathiar university (IJPAM), (Scopus Indexed)
- M.Sangeetha, P.Rajarajeswari. **A new Method of Intuitionistic of Transportation System**, International Journal of Innovative Research and Advanced Studies (IJIRAS), volume 2, issue no.6, June 2015, ISSN:2394-4404
- P.Rajarajeswari, M.Sangeetha, **Fuzzy LPPT Transportation Cost Model**, (IJRIT) International Journal of Research in Information Technology, Volume 3, issue no.6, pp.203-210, June 2015, ISSN: 2001-5569
- P.Rajarajeswari, M.Sangeetha, **An Effect for solving Fuzzy Transportation Problem Using Hexagonal Fuzzy Numbers**, IJRIT, International Journal of Research in Information Technology, volume 3, issue no.6, pp.295-307, 2015, ISSN:2001-5569

- P.Rajarajeswari,M.Sangeetha,**Intuitionistic Fuzzy LPP Unbalanced Transportation Problem**, International Journal of Research in Science Engineering and Technology(IJRSET),volume2,issue no.8,PP.19-26,ISSN:2394-735X
- P.Rajarajeswari,M.Sangeetha, **New similarity performance measure of fuzzy Transportation problem**, IJIRCCE-International journal of innovative Research in computer and communication engineering, ISSN:2320-9798,vol 4,issue 4, page 19-26, April 2016
- P.Rajarajeswari,M.Sangeetha,**An Introduction to the Neutrosophic Fuzzy in Queue**, (IJRIT) International Journal of Research in Information Technology, volume 3, issue no.11, April 2017, ISSN:2349-6002
- P.Rajarajeswari,M.Sangeetha,**Fuzzy Intuitionistic on Queuing system**, International Journal of Fuzzy Mathematics and Systems, volume 4, issue no. 1, PP. 105-119, December 2014, ISSN:2248-9940
- M.Sangeetha **Fuzzy Transportaion problem Using Vikor risk decision making**, International Journal For Research in Engineering Application & AMP; Management (IJREAM), volume 5, issue no. 5, PP. 13-16, August 2019, ISSN:2454-9150.
- M.Sangeetha , **Effect of Vikor operator in transportation problem**, Advances in Applicable Mathematics-ICAAM2020, AIP Conf.Proc. 030122-1-030122-13 (AIP), volume 2261, PP.030122-1-030122-13, 05 October 2020, ISBN:978-0-7354-2021-2.
- R. Jeevitha, M.Sangeetha., S.Kannaki, D.Vidhya, **An Application of Nano Topological Spaces with Decision Making Problem in Medical field**, Turkish Journal of Computer and Mathematics Education Vol.12 No.9 (2021), 975-978, 20 April 2021, ISBN:13094653
- M.Sangeetha , **Comparative study of Russel's Approximation method and Heuristic method**, International journal of creative research thoughts(IJCRT), volume 9, issue 12, December 2021, ISBN: 2320-2882
- M.Sangeetha and P.Poornadevi, W-O-C model on solid Transportation Problem over Fermatean Fuzzy Environment,, international research journal of engineering and technology IJRET vol 09, issue 06, June 2022, ISSN:2395-0056

## Presentations in Conference

- **Parametric – measure of Fuzzy Transportation Theory:** Presented at International Conference on Mathematics, Rathinam Arts and Science college, volume 2, issue no. 8, ISSN: 2394-735X, PP. 19-Oct-15 to 26-Oct-15
- **Effect for using Intuitionistic Fuzzy Soft Transportation System ,**”International Conference in Mathematics, Hindusthan college of Arts and Science , January 7  
ICMRM2015
- **Fuzzy Bulk Queuing model,** International Conference in Applicable Mathematics , Bharathiar university, 5-Dec-15
- **Multi-Objective Fuzzy Fully Linear Programming Transportation Using Ranking function,** Presented at International Conference on Advances in Applicable Mathematics, Bharathiar University, Coimbatore, 7-Dec-17 to 8-Dec-17
- **Similarity Measures of Intuitionistic Fuzzy Transportation Problem,** Presented at : International Conference on Advances in Applicable Mathematics, Bharathiar University, Coimbatore, 7- Dec-17 to 8-Dec-17
- **Multi-Objective Fuzzy Fully Linear Programming Transportation Problem,** Presented at: International Conference on Mathematics 2017, Providence college for women , conoor, ooty, 4-Aug-17 to 5-Aug-17
- M.Sangeetha, **Study of vikor robust ranking method using fully fuzzy linear programming transportation problem,** Presented National Conference on Emerging Trends in Mathematics with Computer Applications, Dr. N.G.P. Arts and Science College, Coimbatore, 12-Sep-19 to 13-Sep-19
- M.Sangeetha, **Effect of vikor operator in transportation problem,** Presented at: International Conference on Advances in Applicable Mathematics, Bharathiar University, Coimbatore, 21-Feb-20 to 22-Feb-20
- M.Sangeetha, Method for solving fermatean fuzzy transportation problem using a grade activity, ICMM, International conference on mathematical modeling, Bharathiar University, Coimbatore, Jan 27-28 th 2023

## Conference / Seminar / Workshop Organized

### National

- Emerging Trends in Mathematics with Computer Applications, Dr. N.G.P. Arts and Science College, Coimbatore, 12-Sep-19 to 13-Sep-19
- National Conference on Recent Trends in Basic and Applied Sciences, Dr. N.G.P. Arts and Science College, Coimbatore, 2-Mar-2020 to 3-Mar-20
- Two day workshop on Recent advancement in systems and control theory, department of Mathematics, Bharathiar university, Coimbatore, 30-31 March 2023

### **Participation in Faculty Development Programme**

- One day virtual mode International conference on recent trends in theoretical and computational Mathematics organized by department of Mathematics, PSGR Krishnammal college for women, Coimbatore on 24<sup>th</sup> February 2022.
- How to open trending & Demat Accounting, Department of Mathematics, commerce BPS, Dr. N.G.P. Arts and Science College, Coimbatore during 7 October 2021
- Two Days Virtual Faculty Development Programme on "Teaching Learning Process Through Revised Blooms Taxonomy" organized by Department of Mathematics, Dr. N.G.P. Institute of Technology, Coimbatore during July 1 - 2, 2021
- Matlab and its Applications in One Week Online Faculty Development, Department of Mathematics, Dr. N.G.P. Institute of Technology, Coimbatore during 7 - 12, June 2021
- NAAC Revised Accreditation Framework and OBE Assessment Methodology, Dr. N.G.P. Arts and Science College, Coimbatore, 27-May-19 to 2-Jun-19
- Recent Advances in Mathematics, Department of Mathematics, Dr. N.G.P. Arts and Science College, Coimbatore, 3-June-2020 to 4-June-2020
- Orientation Course, Coimbatore Institute of Management and technology, May-14 to 16-May-08,
- Refresher Course in Applied mathematics and statistics, Bharathiar University, 25-Dec-17
- Staff Development Programme on Mathematics, Sankara College of Science and Commerce, Coimbatore, 2017

### **Invited Speaker / Session Chair- Conference / Seminar /Workshop**

- Dr. M.Sangeetha, One day Invited speaker, Operations Research with software, Sri Ramakrishna college of arts and science for women, Coimbatore on 14-Nov-22
- Dr. M.Sangeetha, One day Invited speaker, Applications in Mathematics using software, St. Joseph's college for women, Tirupur on 7-Oct-22
- Dr. M.Sangeetha, One day Invited speaker webinar, Vedic Mathematics and Applications of combinatorial problems, Park's college, Autonomous, Coimbatore on 11-May-22
- Dr. M.Sangeetha, One day chaired person of the paper presentation session in Webinar,

International conference on recent trends in theoretical and computational Mathematics, PSGR Krishnammal college for women, Coimbatore on 25<sup>th</sup> Feb 2022.

- Dr. M.Sangeetha, One day Invited speaker Webinar, Operations Research using Libre office, PSGR Krishnammal college for women, Coimbatore on 10<sup>th</sup> March 2022.
- Dr. M.Sangeetha, One day Invited speaker Webinar, Approach to Competitive Mathematics, Government Arts and Science College for Women, Bargur, 24 September 2021
- Dr. M.Sangeetha, One day Invited speaker Webinar, Masterminds in Applications, Department of Mathematics, Sri Kailash Womens College, Salem, 27-April-2021
- M.Sangeetha, Staff Exchange Programme Invited speaker on Real Analysis II ,Vellalar College for women, Erode, 16-18 Mar-21
- Dr. M.Sangeetha, Staff Exchange Programme Invited speaker on Modern Algebra II ,Vellalar College for women, Erode, during 9-Mar-20 to 11-Mar-20
- Dr. M.Sangeetha, National science day on Maths competition , Palaniammal Govt. Hr. sec. school, Tirupur, 27- Feb-20
- Dr. M.Sangeetha, Ramanujam day on Interdepartment meet Documentry film, Ramnujam club co- ordinator, Department of Mathematics, Dr. N.G.P. Arts and Science College, Coimbatore, 4-Jan-20.
- Dr. M.Sangeetha, Ramanujam club on Mathvision Program, Ramnujam club co- ordinator, Department of Mathematics, Dr. N.G.P. Arts and Science College, Coimbatore, 22-Feb-20.
- Dr. M.Sangeetha, One day Invited speaker Webinar, Application of Operation Research, Department of Mathematics , St.Pauls college for women, Coimbatore, 10-June-2020
- Dr. M.Sangeetha, Mathfest 2019 on convenor, Department of Mathematics, Dr. N.G.P. Arts and Science College, Coimbatore, 21-Aug-19.
- M.Sangeetha, Wastage water development an improvement to agriculture planting structure, submitted proposal by SEED MONEY on 05.10.2021
- M.Sangeetha, A novel study on the optimization Techniques on various fuzzy environment with outbreak of NIPAH virus, controlling, unrolling and domination applications in medical diagnosis, its assessment and characterization of Nipah virus disease in Mathematical manifestations, submitted proposal by SERB on 07.10.2022

## **Membership in Professional Bodies**

<b>Name of the Professional Body</b>	<b>Nature of Membership</b>	<b>Duration</b>
BoS in Mathematics	Co-ordinator of Co-PEO	3 years
Criteria VI	Member	-