

DEPARTMENT OF SCIENCE AND HUMANITIES

DEPARTMENT OF MATHEMATICS

Name : Dr.S.RUKMANI	
Designation:	Assistant Professor
Qualification:	M.Sc., M.Phil., Ph.D.,
Area of Specialization:	Optimization Techniques
Experience:	Teaching: 21 Yrs. UG: 21 PG: 20
	Industry: -NIL
No. of workshop / Conferences / FDP attended:	71
Publication:	Journal National: - International: 10
	Conference National: 03 International: -
Membership :	1
Achievements :	1 Award Received

PUBLICATIONS

- 2020 **On Solving Multi-objective Transportation Problem** was published in **The International Journal of analytical and experimental modal analysis**, Vol.XII, No.I, pp.402-405, UGC-CARE Approved Group-II, Impact factor-6.3
- 2019 **On Solving Multi-objective Generalized Intuitionistic Fuzzy Linear Programming Problem** was published in **International Journal of Applied Engineering Research**, Vol.14, No.4, pp.188-195, Scopus Indexed, UGC Approved List, Impact factor-0.16, www.ripublication.com/ijaerspl2019/ijaerv14n4spl...
- 2018 **Goal Programming Approach in Multi-objective intuitionistic fuzzy linear fractional programming problem** was published in **International Journal of Pure and Applied Mathematics**, Vol.118, No.6, pp.541-549, Scopus Indexed, Impact factor-0.29, acadpubl.eu/jsi/2018-118-6/articles/6/59.pdf
- 2018 **Goal Programming Approach to solve Multi-objective intuitionistic non- linear fractional programming models** was published in **International Journal of Mathematics Trends and Technology**, Vol.53, No.7, pp.42-50, UGC Approved List, Impact factor-2.53, www.ijmtjournal.org/2018/Volume-53/number-7/IJMTT-V
- 2018 **Goal Programming Approach in Fuzzy Modified Simplex Method** was published in **Proceedings of National Conference on Emerging Trends in Mathematical Techniques**, ISBN: 978-93-84008-24-6
- 2018 **Solving Fuzzy Non-linear programming problem with unconstrained optimization** was published in **Proceedings of National Conference on Emerging Trends in Mathematical Techniques**, ISBN: 978-93-84008-24-6
- 2017 **Case Study : Decision Making in mushroom Cultivation** was published in **Global Journal of Pure and Applied Mathematics**, Vol.13, No.2, pp.889-899, UGC Approved List, Scopus Indexed, Anna University Annexure II Journal, Impact factor-0.19
- 2016 **Iterative goal programming approach for solving Multi-objective Intuitionistic fuzzy linear programming Problem** was published in **Asian Journal of Research in social sciences and humanities**, Vol.6, No.9, pp.2017-2029 (online), Anna University Annexure I Journal, Impact factor-4.56
- 2015 **On Solving Fractional Programming Problem** was published in **Proceedings of Regional level Seminar on Recent Trends in Mathematics**, Special Issue
- 2015 **On Solving Multi-objective Intuitionistic Fuzzy Linear Programming Problem** was published in **International Journal of Applied Engineering Research**, Vol-10, No.51,0973-4562 (online), Impact factor-1.82, UGC Approved List
- 2015 **On Solving Multi-objective Intuitionistic Fuzzy Linear Fractional Programming Problem** was published in **International Journal of Fuzzy Mathematical Archive**, Vol-9, No.2, 2320-3250(online), Impact factor-1.14
- 2015 **Solution Procedures for Multi-objective Intuitionistic Fuzzy Linear and Fractional Linear Programming Problem using weighting factor** was published in **International Journal of Fuzzy Mathematical Archive**, Vol-9, No.2, 2320-3250 (online), Impact factor-1.14
- 2013 **Solving Multi-Objective Intuitionistic linear programming using Triangular Intuitionistic fuzzy number** was published in **International Journal of Scientific & Engineering Research**, Vol.4, Issue 10, 2229-5518 (online), Impact factor-0.18

PATENT: NIL

EVENT ORGANISED:

- 2023 National Conference on “Contemporary Mathematics and its Applications” on 24.03.2023 at S.T.E.T. Women’s College
- 2023 Mathematical Exhibition for School Students on 17.02.2023 at S.T.E.T. Women’s College
- 2022 Hands-on workshop on LaTeX on 28.10.2022 at S.T.E.T. Women’s College
- 2021 Two days National level virtual workshop on “Modeling and Solving Operations Research Problems using Microsoft Excel and Solver” on 04.03.2021 and 05.03.2021 at S.T.E.T. Women’s College
- 2021 Three days Faculty Development Programme on “Environmental Issues and Ethics” from 17.09.2021 to 19.09.2021 at S.T.E.T. Women’s College
- 2021 Two days Hands on Training Programme on “Solving Optimization Problems using Microsoft Excel and Solver” on 10.06.2021 and 11.06.2021 at S.T.E.T. Women’s College at S.T.E.T. Women’s College
- 2020 Co-ordinator for Webinar on “Applications of Fuzzy Mathematics” on 06.06.2020 at S.T.E.T. Women’s College
- 2020 Co-ordinator for one week online Quiz Competition from 24.08.2020 to 31.08.2020 at S.T.E.T. Women’s College
- 2017 Co-ordinator for National Conference on “Emerging Trends in Mathematical Techniques” at S.T.E.T. Women’s College on 16.12.2017.
- 2025 Co-ordinator for International Conference on “Recent Trends in Mathematics and Computations” at Kings College of Engineering (Autonomous)

ACTED AS RESOURCE PERSON: 5

1. Delivered a special lecture on National Level Mathematics Workshop for Undergraduate Students under the title “Multi-objective Models in Intuitionistic Fuzzy Environment” at Swami Dayananda College of Arts & Science, Manjakudi on 23.10.2021
2. Acted as resource person for Special Lecture Programme and delivered a lecture on “Graph Theory with GRIN” at Government Arts and Science Science College for Women, Orathandau on 09.05.2022.
3. Acted as Guest of honour in the seminar and delivered a lecture on “Solving Optimization Problems through Microsoft Excel and Solver” at Idhaya College for Women, Kumbakonam on 24.05.2022.
4. Acted as Resource person and delivered a Lecture on “Graph Theory with GRIN” on 07.10.2022 at Bon Secours College for Women, Thanjavur.
5. Acted as resource person in National Mathematics Day Celebration and delivered key note address & provided special lecture entitled “Solving Linear Programming Models using Microsoft Excel and Solver” at A.V.V.M. Sri Pushpam College (Autonomous), Poondi on 22.12.2022.
6. Acted as resource person for Guest lecture on “Seperation axioms in Topology” on 28.03.2025 at Bon Secours College for Women, Thanjavur

REVIEWER-NIL

Online Courses attended: NIL