



Dr. J. VIMALA
Assistant Professor

Contact

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Academic Qualifications: M.Sc., B.Ed., Ph.D., P.G.D.C.A.

Teaching Experience: 18 Years

Research Experience: 15 Years

Additional Responsibilities

1. Deputy co-ordinator, SAP, DRS-I, Department of Mathematics 2016-21.
2. Deputy co-ordinator, Data Management Centre, Alagappa University 2019 -2020
3. Deputy co-ordinator, Coaching Scheme for Entry into Services -2018-2020
4. Programme Officer, NSS, Alagappa University – 2016 to till date
5. Co-ordinator, IQAC, Dept. of Mathematics, 2015-2021
6. Co-ordinator, Alumni Association, Dept. of Mathematics since 2015
7. Co-ordinator, Department Library 2015-2017
8. Co-ordinator, Village Placement Programme, Dept. of Mathematics – 2014,2017

9. Member, University Business Collaboration Centre, Alagappa University 2016-18
10. Member, Department Research Committee
11. Member, Department Purchase Committee
12. Member, Department Student Affairs and Counselling Cell
13. Member, Inspection Committee for affiliation of Alagappa University.

Areas of Research

Algebra, Lattice Theory, Fuzzy Lattice, Soft Computing, Decision making, Fuzzy Algebraic Hyper structures.

Research Supervision / Guidance

Program of Study		Completed	Ongoing
Research	Ph.D.	8	5
	M.Phil.	36	--
Project	PG	127	--
	UG / Others	--	--

Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books / Chapters / Monographs / Manuals
50	6	1	7	6

Cumulative Impact Factor (as per JCR) : 36.770
h-index : 10
i10 index : 12
Total Citations : 328

Funded Research Projects

Completed Projects

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		

1	UGC	26.03.14	25.03.16	A Study on L-fuzzy Sub l -Group	6 lakhs
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Distinctive Achievements / Awards

1. University Third Rank holder in M.Sc., Mathematics, Alagappa University – 2002.
2. Best Researcher Award in Mathematics 2015-16 by International Multidisciplinary Research Foundation (IMRF) at Goa on 03.11.2016.
3. Distinguished Women in Science 2017 - Specialization Mathematics, by VIWA.
4. Best Presentation Award in International Conference on Advances in Mathematics, Statistics & Computer Science, April 26-27, 2019 at IMRF Dubai Academic Chapter, Hotel Omega, Bur Dubai, Dubai, UAE.
5. Vallal Alagappan Research Recognition Award – 2020, Alagappa University.
6. Promising Researcher Award – 2022, Alagappa University.

Events organized in leading roles

Number of Seminars / Conferences / Workshops / Events organized: 13

1. Convenor, “Two day International Conference on Recent Developments in Pure and Applied Mathematics (ICRDTPAM-2023)”, by School of Mathematics, Alagappa University, 23rd and 24th March, 2023.
2. Co-ordinator, “State Level Quiz Contest 2022” by School of Mathematics, Alagappa University, 18th March 2022.
3. Co-ordinator, “State Level Quiz Contest 2020” by School of Mathematics, Alagappa University, 3rd March 2020.
4. Co-ordinator, “Advanced Training in Algebra & Analysis” by School of Mathematics, Alagappa University, 20 – 25th January 2020.
5. Co-ordinator, “National Mathematics Day” by School of Mathematics, Alagappa University- 17 December 2019.
6. Co-ordinator, Two day Training Programme on “Business Skills Training on Challenges of Operating in Business Environment” by University Business Collaboration Centre & Dept. of Mathematics, Alagappa University - 18th & 19th December, 2017.
7. Co-ordinator, “One day Hands – on Practice on “LATEX” – A Mathematical document tool preparation” by University Business Collaboration Centre & Dept. of Mathematics, Alagappa University, 10th February 2017.
8. Organizing Secretary, International Workshop on Data Analysis Using SPSS (IWDAUS – 2016), 15th to 19th December 2016.

9. Organizing Secretary , National Conference on Pure and Applied Mathematics 2016 (NCPAM 2016), 30th& 31st March, 2016.
10. Member of Organizing Committee, State Level Quiz Competition organized by the School of Mathematics, Alagappa University, 15th February 2016.
11. Co-ordinator, National Mathematics Day, organized by the School of Mathematics, Alagappa University, 22nd December 2015.
12. Co-ordinator, State Level Quiz Competition organized by the School of Mathematics, Alagappa University, 6th February 2015.
13. Member of Organizing Committee of One Day Seminar on Pure and Applied Mathematics, 20th December 2012.

Events Participated (optional)

Conferences / Seminars / Workshops: 14

1. “ 3rd International Conference on Computer Vision and Robotics(CVR 2023)” held on 24th and 25th February, 2023, organized by Babu Banarasi Das University, Lucknow, India.
2. “Two Days International Webinar On Fuzzy & Neutrosophic Systems” held on 21st & 22nd August 2020, organized by Department of Mathematical Sciences, Bodoland University, BTAD, Assam, India.
3. *International Conference on Engineering and Natural Science (ICENS)*, THE IRES on 3rd June, 2016, Singapore.
4. *International Conference on Algebra and Applications 2014 (ICAA-2014)*, 29th April 2014 to 1st May 2014, Andhra University, Visakhapatnam.
5. *International Conference on “Legacy of Srinivasa Ramanujan”* – 14th, 15th Dec. 2012, Sastra University, Kumbakonam.
6. *National Seminar on “Pure and Applied Mathematics”*- 27th September 2018, organized by the Department of Mathematics, Idhaya College for Women, Sarugani.
7. *National Conference on Recent Innovations in Science and Engineering Technology (NCRASET-2016)*, Pune – March 20th 2016.

8. *A Two Day National Seminar on Safety and Security of Women and Girls in Public Spaces : Planning and Designing Mechanism*, Department of Women's Studies & National Commission for Women, New Delhi, 4th – 5th December, 2015.
9. *A Two Day National Seminar on Safety and Security of Women and Girls in Public Spaces : Planning and Designing Mechanism*, Department of Women's Studies & National Commission for Women, New Delhi, 4th – 5th December, 2015.
10. *National Conference on Recent Advances in Numerical Methods and its Applications (RANMA)*, Pondicherry University, Pondicherry – Jan 27 -28 (2014)
11. *National Conference on Labelings and Decompositions of Graphs* – 29th , 30th August 2013, Madura College, Madurai.
12. *National Conference on Frontiers in Analysis and Differential Equations (NCFADE – 2012)* – Dec. 19-20, Bharathidasan University, Tiruchirappalli
13. *National Level Technical Symposium on Innovative IT Projects (TECHGEEKS'11)* , 15th September 2011, St. Michael College of Engg. & Tech., Kalayarkoil.
14. *National Seminar on Interdependence of Mathematics and Computer Science*, Fatima College, Madurai , 11th& 12th March, 2004.

Other Training Programs

1. "Faculty Development Program on Meaningful Research & Intellectual Property Rights " – 26th September – 02nd October 2022, Organized by the Teaching Learning Centre, Ramanujan college, University of Delhi .
2. Two-week refresher course in "Mathematics", organized by Department of Mathematics, Ramanujan College and Teaching Learning Centre, Ramanujan College during March 16 – March 30, 2021.
3. "Faculty Development (Enrichment) Programme on Managing Online Classes and co creating MOOCS "- 20th April to 06th May 2020 Organized by the Teaching Learning Centre,Ramanujan college, University of Delhi .
4. Two Week online workshop on "Comprehensive e-learning to e-training Guide for Administrative Work "- 25th May to 058th June2020 Organized by the Teaching Learning Centre,Ramanujan college, University of Delhi .

5. One day workshop on “Design and Development of MOOCs for the Faculty Members of Alagappa University and Affiliated Colleges ”- 8th November, 2018, Organized by Digital Education Cell, Alagappa University.
6. “ Short Term Course On Professional Enrichment (STC-2017)” – 7th to 13th August 2017, Organized by Alagappa University College of Education.
7. “Faculty Development (Enrichment) Program – Accreditation Preparedness Engagement” – 6th to 12th January 2017, Organized by Internal Quality Assurance Cell, Alagappa University, Karaikudi.
8. “Faculty Development Program – Accreditation Preparedness Engagement” – 18th -23th September 2016, Organized by Internal Quality Assurance Cell, Alagappa University, Karaikudi.
9. “Faculty Development Programme on Entrepreneurship” – 12.11.2015 to 26.11.2015 - Organized by the Entrepreneurship-cum-Skill Development Centre, Alagappa University, Karaikudi.
10. Refresher course – 5.11.2014 to 25.11.2014 – Organized by Academic Staff College, Bharathidasan University, Thiruchirappalli.
11. Orientation programme – 30th May 2013 to 26th June 2013- organized by Academic Staff College, Madurai Kamaraj University, Madurai.
12. Orientation programme organized by Curriculum Development Cell, Alagappa University – 24th to 31st August 2012, under UGC Initiatives of National Mission on Teachers and Training.
13. Summer School in Algebra and its Applications (Sponsored by NBHM), Department of Mathematics, Alagappa University, Karaikudi – May 22nd to June 9, 2006.

Overseas Exposure / Visits

1. International Conference on Advances in Mathematics, Statistics & Computer Science, April 26-27,2019 at IMRF Dubai Academic Chapter , Hotel Omega, Bur Dubai, Dubai, UAE.
2. 38th International Conference held on 3rd June 2016, The IRES, Singapore.
3. 5th Asian Mathematical Conference, Kuala Lumpur, Malaysia – June 22-26th, 2009.

Membership in

Professional Bodies

1. Life Member, Indian Mathematical Society
2. Life Member, Kerala Mathematical Society
3. Life Member, International Association of Engineers (IAENG)
4. Member, European Society for Fuzzy Logic and Technology (EUSFLAT)

Academic Bodies (such as Board of Studies etc.,)

1. Member Board of Studies - B.Sc. Mathematics, Bharathidasan University, Tiruchirappalli-2018-2021.
2. Member, Mathematics Research Cell, Sri Sarada Niketan College for Women, Amaravathipudur
3. Member, Board of Studies M. Sc. Mathematics (DDE programme)- Alagappa University.
4. Member, Board of Studies M. Sc, M.Phil Mathematics - Alagappa University.
5. Member, Board of Studies - B.Sc. Mathematics Alagappa University affiliated colleges, Karaikudi .
6. Member, Board of Studies - M.Sc. Mathematics Alagappa University affiliated colleges, Karaikudi.
7. Member, Board of Studies - M.Phil. Mathematics Alagappa University affiliated colleges, Karaikudi.

Resource persons in various capacities

Number of Invited / Special Lectures delivered: 19

Others

1. Articles published in Newspapers / Magazines : --
2. Products developed : --
3. No. of PhD Thesis evaluated : 8
4. No. of PhD Public Viva Voce Examination conducted : 8

5. Sequences submitted in GenBank :-

**Social Interests and Initiatives / Articles in News papers etc can also be included

Recent Publications

1. J. Vimala, Ashma Banu, Muhammad Haris Saeed, Hamed Alsulami, Aftab Hussain and Muhammad Saeed, Development of Complex Linear Diophantine Fuzzy Soft set in determining a suitable Agri-drone for spraying Fertilizers and Pesticides", IEEE Access, Vol. 11, pp. 9031-9041, 2023 (SCIE) I.F :3.476.
2. S. Sabeena Begam, J. Vimala*, "Compositions on lattice ordered multi-fuzzy soft matrix and its simulated application in medical diagnosis", Mathematics and Computers in Simulation, 2022, (SCI) I.F: 3.601
3. J. Vimala*, S. Rajareega, D. Preethi, M. Al-Tahan, P. Maha Lakshmi, K. Jeevitha, & K. Ashma Banu, Lattice Ordered Neutrosophic Soft Set and Its Usage for a Large Scale Company in Adopting Best NGO to Deliver Funds During COVID-19, Journal of Computational and Cognitive Engineering, 2022, DOI: <https://doi.org/10.47852/bonviewJCCE2202193>.
4. S. Rajareega, J. Vimala*, and D. Preethi, "Complex intuitionistic fuzzy soft lattice ordered group associated with I - ideal", Journal of Discrete Mathematical Sciences and Cryptography, pp.1-13,2022(SCOPUS)ESCI, DOI: <https://doi.org/10.1080/09720529.2021.1962024>.
5. Harish Garg*, J. Vimala, S. Rajareega, D. Preethi, Luis Perez-Dominguez, "Complex intuitionistic fuzzy soft SWARA-COPRAS approach: An application of ERP software selection", AIMS Mathematics, Vol. 7, No. 4, pp. 5895-5909, 2022 (SCIE) I.F :1.427.
6. H Al Akara, M Al-Tahan, J. Vimala, "Some results on single valued neutrosophic bi-ideals in ordered semigroups", Neutrosophic Sets and Systems, Vol. 45, No. 1, pp. 181- 196, 2021 (SCOPUS) & ESCI
7. J. Arockia Reeta, J. Vimala*, A. Borumand Saeid, "Correction to: Algebraic relations over I -fuzzy soft groups", Afrika Matematika, (Springer). vol. 32, No. 723, 2021 (SCOPUS)
8. D. Preethi, J. Vimala*, S. Rajareega, "A systematic study in the applications of fuzzy hyperlattice", AIMS Mathematics, Vol. 6, No. 2, pp. 1695-1705, 2021, (SCIE) I.F :1.427.
9. D. Preethi, J. Vimala*, S. Rajareega, Madeline Al- Tahan, "Fuzzy Hyperlattice Ordered δ - Group and Its Application on ABO Blood Group System", Journal of Intelligent & Fuzzy Systems, Vol. 41, No. 5, pp. 5309-5315, 2021 (SCIE) I.F: 1.851.

10. D. Preethi, J. Vimala*, "Redox Reaction on Homomorphism of Fuzzy Hyperlattice Ordered Group", Journal of Intelligent & Fuzzy Systems, Vol. 41, No. 5, pp. 5691-5699, 2021 (SCIE) I.F: 1.851.
11. S. Rajareega and J. Vimala*, "Operations on Complex Intuitionistic Fuzzy Soft Lattice Ordered Group and CIFS-COPRAS Method for Equipment Selection Process", Journal of Intelligent & Fuzzy Systems, Vol. 41, No. 5, pp. 5709-5718, 2021 ,(SCIE) I.F: 1.851.
12. Shio Gai Quek , Ganeshsree Selvachandran , Florentin Smarandache , J. Vimala , Son Hoang Le , Quang-Thinh Bui and Vassilis C. Gerogiannis , "Entropy Measures for Plithogenic Sets and Applications in Multi-Attribute Decision Making", Mathematics 2020, 8, 965; DOI:10.3390/math8060965. (SCIE) I.F: 2.258.
13. Sabeena Begam S, Vimala J, Ganeshsree Selvachandran , Tran Thi Ngan*, and Rohit Sharma "Similarity Measure of Lattice Ordered Multi-Fuzzy Soft Sets Based on Set Theoretic Approach and Its Application in Decision Making ", Mathematics 2020, 8, 1255; doi:10.3390/math8081255 (SCIE) I.F: 2.258
14. S. Rajareega, J. Vimala*, D. Preethi, "Complex Intuitionistic Fuzzy Soft Lattice Ordered Group and Its Weighted Distance Measures", Mathematics 2020, 8, 705. DOI: 10.3390/math8050705 . (SCIE) I.F: 2.258.
15. D.Preethi, J.Vimala*, Bijan Davvaz, S. Rajareega , "Biological inheritance on fuzzy hyperlattice ordered group" , Journal of Intelligent & Fuzzy Systems , Vol 38, no.5, pp.6457-6464, 2020. DOI: 10.3233/JIFS-179726. (SCIE) I.F: 1.851
16. Vimala J*, Vijayalakshmi L, Peng Xindong, "Lattice ordered soft group and its application in urban planning", Journal of Intelligent & Fuzzy Systems, Vol. 38, no.3, pp. 2591-2959, 2020. DOI: 10.3233/JIFS-182662. (SCIE) I.F: 1.851
17. D.Preethi, J.Vimala*, S.Rajareega, "Some Properties On Fuzzy Hyperlattice Ordered Group", International Journal of Advanced Science and Technology, Vol. 28, No. 9, (2019), pp. 124-132. (SCOPUS)
18. D. Preethi, S.Rajareega, J. Vimala*, Ganeshsree Selvachandran and Florentin Smarandache, "Single- Valued Neutrosophic Hyperrings and Single- Valued Neutrosophic Hyperideals", Neutrosophic Sets and Systems, Vol. 29, 2019 (SCOPUS) & ESCI
19. S.Rajareega, J. Vimala*, D. Preethi, "The Role of (α, β) - Level set on Complex Intuitionistic Fuzzy Soft Lattice Ordered Groups" International Journal of Advanced Science and Technology, Vol. 28, No. 9, (2019), pp. 116-123. (SCOPUS)

20. S. Rajareega, D. Preethi, J. Vimala *, Ganeshsree Selvachandran, Florentin Smarandache "Some Results on Single Valued Neutrosophic Hypergroup" Neutrosophic Sets and Systems, Vol.31, 2020 (SCOPUS)&.ESCI
21. Vimala J*, Anusuya Ilamathi VS, Rajareega S, "Implicative and Positive Implicative Filters of Residuated Lattices in Multiset Context ", bVol. 22 (2019), No. 5, pp. 869-882 Taylor & Francis (Scopus)
22. S. Sabeena Begam, J. Vimala*, D. Preethi, "A Novel Study on the Algebraic Applications of Special Class of Lattice Ordered Multi-Fuzzy Soft Sets", Journal of Discrete Mathematical Sciences and Cryptography, Vol. 22 (2019), No. 5, pp. 883-899 Taylor & Francis (Scopus)
23. V.S. Anusuya Ilamathi, J. Vimala * and Bijan Davvaz, Multiset Filters of Residuated Lattices And Its Application In Medical Diagnosis, Journal of Intelligent & Fuzzy System- IOS Press, DOI 10.3233/JIFS-169940 , (2019) (SCIE), IF: 1.637
24. J. Arockia reeta and J. Vimala* , "Implementation of anti-lattice ordered fuzzy soft groups and its matrix operations in deciding process" Journal of Intelligent and Fuzzy Systems- IOS Press DOI 10.3233/JIFS-18914 (SCIE), IF: 1.637
25. J. Vimala *and AR. Pandipriya, Morphisms on Lattice Ordered Interval-Valued Hesitant Fuzzy Soft Sets, Journal of Intelligent and Fuzzy Systems- IOS Press DOI 10. 3233/JIFS-169941, (2019) (SCIE) , IF: 1.637
26. S. Sabeena Begam and J. Vimala*, Application of lattice ordered multi-fuzzy soft set in forecasting process, Journal of Intelligent and Fuzzy Systems- IOS Press DOI 10.3233/JIFS-169943 , (2019) (SCIE), IF: 1.637.
27. J.Vimala* , J.Arockia Reeta, A Note On Lattice Ordered Fuzzy Soft Groups, International Journal of Pure and Applied Mathematics, 119 (12) (2018) 1-10.
28. J.Vimala* , J.Arockia Reeta, Ideal Approach on Lattice Ordered Fuzzy Soft Group and Its Application in Selecting Best Mobile Network Coverage Among Travelling Paths, ARPN Journal of Science & Technology, 13 (7) (2018) 2414-2421. (Scopus)
29. J.Vimala* and L.Vijayalakshmi, Designing modular and Distributive Lattices Using l-Soft Group, International Journal of Engineering & Technology, 7 (1.3) (2018) 56-60 (Scopus).
30. Anusuya Ilamathi, V.S and Vimala. J*, Implementation of Boolean Algebraic Structure and its Decision, International Journal of Engineering & Technology, 7 (1.3) (2018) 85-89 (Scopus).

31. AR.Pandipriya, Vimala. J*, and S.Sabeena Begam, Lattice Ordered Interval – Valued Hesitant Fuzzy Soft Sets in Decision Making Problem, International Journal of Engineering & Technology, 7 (1.3) (2018) 52-55 (Scopus).
32. J.Vimala* , J.Arockia Reeta and V.S. Anusuya Ilamathi, A Study on Fuzzy Cardinality in Lattice Ordered Fuzzy Soft Group And Its Application In Decision Making Problems, Journal of Intelligent & Fuzzy Systems- IOS Press – Vol. 34(3), pp 1535-1542, DOI 10.3233/JIFS-169448. (SCIE) , IF: 1.426