



Dr. R. JEYABALAN
Assistant Professor

Contact

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Academic Qualifications:

M.Sc., M.Phil., Ph.D.

Teaching Experience:

Seven years

Research Experience:

8 Years

Areas of Research

Magic Labeling Graph Theory, Fuzzy Magic Labeling Graph Theory, Fuzzy Topology, Mathematical Modeling.

Research Supervision / Guidance

Program of Study		Completed	Ongoing
Research	Ph.D.	-	4
	M.Phil.	28	-
Project	PG	60	14

Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books / Chapters / Monographs / Manuals
14	-	02	1	Book Chapters -

Cumulative Impact Factor (as per JCR)	:2.87
h-index	: 2
i10 index	: 1
Total Citations	: 33

Paper Presentations in Conferences (Abroad):

- ❖ **Presented** a paper in an International Conference on Mathematical Engineering Application for Sustainable Development-2019, during 16-18 August 2019, entitled "Strongly Vertex Multiplicative Magic Graphs" at University of Malaya, Kuala Lumpur, Malaysia.
- ❖ **Presented** a paper in an International Conference on Challenges and Opportunities in Multidisciplinary Research, during 27-28 October 2018, entitled "IVF-Contra Generalized Semi-PreContinuous Mappings" at National University of Singapore, Singapore.

Paper Presentations in Conferences (India):

- ❖ **Presented** a paper in an 2nd International Conference on Mathematical Modeling and Computational Methods in Science and Engineering (ICMMCMSE-2020), during 22-24 January 2020, entitled "On Vertex N-Magic Total Labeling of Graphs" at Alagappa University, Karaikudi, Tamil Nadu, India.
- ❖ **Presented** a paper in an International Conference on Emerging Trends in Computing Technology and Management during 7th to 9th February 2019, entitled "Strongly Vertex Multiplicative Fuzzy Magic Graphs" at Technocrats Institute of Technology, Anand Nagar, Bhopal, India.
- ❖ **Presented** a paper in an International Conference on Discrete and Computational Mathematics during 20-21, December 2018 entitled

“Strongly Edge Multiplicative Magic Graphs” at Alagappa University, Karaikudi, Tamilnadu, India.

- ❖ **Presented** a paper in an International Conference on Agriculture, Science, Technology, Management and Social Science 2016 and National Workshop on Soft Computing Modeling and Medical Sciences & A Symposium on Women Empowerment, during 10-12 November 2016, entitled “IVF- Completely Generalized Semi-Precontinuous Mappings” at Carmel College of Arts and Science & Commerce for Women, Goa, India.
- ❖ **Presented** a paper in the National Conference on Pure and Applied Mathematics (NCPMA’16) during 30-31, March, 2016, entitled “IVF-Almost Generalized Semi-Precontinuous Mappings” at Alagappa University, Karaikudi, Tamilnadu, India.
- ❖ **Presented** a paper in the National Conference on Advances in Mathematics and Its Applications to Science and Engineering (AMASE-2016) 22nd January 2016, entitled “IVF-Generalized Semi-Precontinuous Mappings” at Anna University College of Engineering , Pattukkottai, Tamilnadu, India.
- ❖ **Presented** a paper in “National Seminar on Fuzzy Algebra” during 10-11, April -2014, entitled “IVF- Almost Generalized Semi-Precontinuous Mappings” at Government Arts College, Paramakudi, Tamilnadu, India.

Funded Research Projects

Completed Projects

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	AURF-Seed Money	24 May 2017	24 May 2018	A Study on Vertex N-Magic Total Labeling graphs	0.35 Lakhs

Events organized in leading roles

- ❖ Act as a Department Coordinator in the activity “Anti-Plastic campaign rally at Illuppaikudi Village (VEP) of MHRD-UCG Initiative Swachhata Hi Seva, Swachhta Pakhwada, Rashtriya Poshan Maah & Jal Shakti Abhiyan” Programmes organized by Alagappa University, Karaikudi during 1st July-30th November 2019.
- ❖ Act as a Co-ordinator for the State Level Quiz Contest 2019” for PG Mathematics Students on 20th, February 2019 at Alagappa University, Karaikudi.

- ❖ Organizing Secretary of an National Conference on “Mathematical and Computational Sciences-2018” under the financial support of UGC-SAP(DRS-1) during 23-24, October, 2018 at Alagappa University, Karaikudi.
- ❖ Act as a Department Coordinator in the “Swachhta Hi Seva 2018 activity Cleaning of Streets Drains and Back Alleys”, organized by Alagappa University, Karaikudi during 15th September – 2nd October 2018.
- ❖ Act as a Coordinator of the National Mathematics day on 22nd December 2017 at Alagappa University, Karaikudi.
- ❖ Act as a Department Coordinator in the “Village Placement Programme”, organized by Alagappa University, Karaikudi during 22-25 September 2016.

Events Resource person/Chairperson

- ❖ Act as a Chair person in the “2nd International Conference on Mathematical Modelling and Computational Methods in Science and Engineering” during 22-24, January 2020, at Alagappa University, Karaikudi.
- ❖ Delivered a talk on “Fundamentals of Mathematics” in the inauguration of Mathematical Association at Ananda College, Devakottai on 16th August 2017.

Events Participated

- ❖ **Participated** in the National Conference on “Mathematical Analysis and Computing” on 28th May, 2021 at Sree Sevugan Annamalai College, Devakottai, Sivagangai, Karaikudi, Tamil Nadu.
- ❖ **Participated** in the International Webinar on “Special Functions and Discrete Mathematics” during 02-05, August, 2020 at University of Kerala, Kerala.
- ❖ **Participated** in the One day Webinar on “Exploring Graph Theory Applications with GRIN (Graph Interface Software)” on 15th July, 2020 at Thiagarajar College of Engineering, Madurai.
- ❖ **Participated** in the Web Conference on “Complex Analysis and Differential Geometry: Revisiting (IWCADGR-2020)” during June 29, 30, 2020 at Sidho-Kanho-Birsha University, W. B, India.
- ❖ **Participated** in the online “Workshop on Mathematical Analysis (MATANA 2020)” during June 8-13, 2020 at Loyola College, Chennai, Tamil Nadu.
- ❖ **Participated** in the online workshop on Research Methodology “Problem Identification in Research: Distributive Technology” on 4th May 2020 at Pandit Deendayal Petroleum University.
- ❖ **Participated** in the online workshop on Research Methodology “Ethics in Research” on 5th May 2020 at Pandit Deendayal Petroleum University.

- ❖ **Participated** in the online workshop on Research Methodology “Writing Research Paper” on 6th May 2020 at Pandit Deendayal Petroleum University.
- ❖ **Participated** in the online workshop on Research Methodology “Reviewing Literature” on 7th May 2020 at Pandit Deendayal Petroleum University.
- ❖ **Participated** in the Three day International workshop on “E-Content Development for Moocs among the Faculty Members” held on 10th, 12th & 13th September, 2019 at Alagappa University, Karaikudi , Tamil Nadu.
- ❖ **Participated** in the One Week Short Term Training Programme on “ Research Publication and Anti-Plagiarism” held on 9th - 15th October, 2017 at Alagappa University, Karaikudi , Tamil Nadu.
- ❖ **Participated** in the International Workshop on “Data Analysis Using SPSS” held on 15th to 19th December, 2016 at Alagappa University, Karaikudi , Tamil Nadu.
- ❖ **Participated** in the One day International Conference on “Recent Trends in Discrete Mathematics and its Applications to Science and Engineering” held on 3rd December, 2013 at Periyar Maniammai University, Thanjavur, Tamilnadu, India.
- ❖ **Participated** in the National Seminar on “Analysis ad Number Theory” held on January 21 - 22, 2010 at Alagappa University, Karaikudi, Tamilnadu, India.
- ❖ **Participated** in the One day Seminar on “Mathematical Analysisin Honour of Prof. V. Karunakaran” held on February 25, 2010 at Madurai Kamaraj University, Madurai, Tamilnadu, India.

Other Training Programs Orientation/Refresher Course/ Faculty Development Programmes:

- ❖ **Participated** in the **Two-week Refresher Course in “Applicable Mathematics”** through online mode Organized by Ramanujan College University of Delhi under Ministry of Education PMMMMNMTT from 26-July-2022 to 08.08.2022.
- ❖ **Participated** in the **Two-week Refresher Course in “Mathematics”** through online mode Organized by Ramanujan College University of Delhi under Ministry of Education PMMMMNMTT from 16-30 March 2021.
- ❖ **Participated** in the **Two-week Refresher Course on “Research Methodology: Tools and Techniques”** through online mode Organized by UGC HRDC Mizoram University under UGC STRIDE Scheme from 07-20 July 2020.
- ❖ **Participated** in the **Two-week Online Workshop on “Comprehensive E-Learning to e-Training guide for Administrative Work”** through online mode Organized by Ramanujan College University of Delhi under Ministry of Education PMMMMNMTT from May 25-June 05, 2020.

- ❖ **Participated** in the **One-week Faculty Development Programme on “GeoGebra”** through online mode Organized by Ram Krishna College Lalit Narayan Mithila University under ICT MHRD, Govt. of India from 06-12 May, 2020.
- ❖ **Participated** in the **Two-week Faculty Development Programme on “Managing Online Classes and Co-Creating Moocs”** through online mode Organized by Ramanujan College University of Delhi under MHRD PMMMNMTT from April 20-May 06, 2020.
- ❖ **Participated** in the **“Orientation Course ”** Organized by UGC HRDC Pondicherry University from August 18- September 14, 2017
- ❖ **Participated** in the **“Faculty Development (Enrichment) Program”** Accreditation Quality Enhancement organized by Internal Quality Assurance Cell(IQAC) from January 6, 2017 to January 12, 2017 at Alagappa University, Karaikudi.

Overseas Exposure / Visits

- ❖ Singapore
- ❖ Malaysia

Membership in Professional Bodies

- ❖ Life member in FATER Academy of India (Forum for Advanced Training)

Academic Bodies(Such as Board of Studies/Examiner etc.,)

- ❖ Board of studies member in Department of Mathematics, Alagappa University, Karaikudi.
- ❖ Board of studies member in Department of Mathematics (Affiliated College), Bharathidasan University, Trichy.

Publications:

- ❖ **“Perfectly Antimagic Total Graphs”** P. Swathi, R. Jeyabalan, G. Kumar and R. Nishanthini Journal of Intelligent and Fuzzy Systems (SCI - IF- 1.74), Volume Vol. XX, no. XX, Year 2022, Pages 1-7.
- ❖ **“Consecutive z-index vertex magic labeling graphs”** R. Nishanthini, R.Jeyabalan, S. Balasundar and G.Kumar Journal of Intelligent and Fuzzy Systems (SCI - IF- 1.85), Volume Vol. 41, no. 1, Year 2021, Pages 219-230.
- ❖ **“Split Domination in Neutrosophic Graphs”**, M. Mullai , S. Broumi, R. Jeyabalan, R. Meenakshi Neutrosophic Sets and Systems ,Volume No. 47, Year 2021, Pages 240-249.
- ❖ **“Strongly Edge Multiplicative Graphs”** R.Jeyabalan and G.Kumar Advances in Mathematics: Scientific Journal (Scopus), Volume 1, Year 2020, Pages 173-185.

- ❖ **“Strongly Vertex Multiplicative Graphs”** R.Jeyabalan and G.Kumar
Advances in Mathematics: Scientific Journal (Scopus), Volume 4, Year 2020,
Pages 2177–2183.
- ❖ **“A Single Valued Neutrosophic Inventory Model with Neutrosophic
Random Variable”** M.Mullai and R.Jeyabalan and S. Broumi International
Journal of Neutrosophic, Volume 1, Year 2020, Pages 47-57.
- ❖ **“Completely generalized semi-precontinuous mapping in IVFtopological
space”** G.Kumar and R.Jeyabalan International Journal of Mathematics and
Its Applications, Volume 6, Year 2018, Pages 357-364.
- ❖ **“IVF-almost generalized semi-preclosed mappings”** G.Kumar and
R.Jeyabalan International Journal of Mathematics Trends and Technology ,
Volume 55, Year 2018, Pages 143-152.
- ❖ **“IVF-generalized semi-precontinuous mappings”** R.Jeyabalan and
K.Arjunan Global Journal of Pure and Applied Mathematics, Volume 12,
Year 2016, Pages 106-111.
- ❖ **“IVF Almost Generalized Semi-Precontinuous Mappings”** R.Jeyabalan
International Journal of Applied Mathematical Sciences, Volume 9, Year
2016, Pages 99-111.
- ❖ **“Interval Valued Fuzzy Generalized Semi-Preirresolute Mapping”**
R.Jeyabalan and K.Arjunan Gen. Math. Notes, Volume 23, Year 2014, Pages
79-84.
- ❖ **“Interval valued fuzzy generalized semi-preclosed mappings”** R.Jeyabalan
and K.Arjunan IOSR Journal of Mathematics, Volume 5, Year 2013, Pages
40-47.
- ❖ **“ Notes on Interval Valued Fuzzy Generalized Semipreclosed Sets”**
R.Jeyabalan and K.Arjunan International Journal of Fuzzy Mathematics and
Systems, Volume 3, Year 2013, Pages 215-224.