

# **Faculty Profile**



**Dr. R. Thamizharasi M.Sc., M.Phil., Ph.D.,**  
Assistant Professor, Mathematics,

## **HIGHLIGHTS:**

- Number of Journal Publications:12
- H-Index:2

## **PROFESSIONAL LINKS:**

- Scopus ID: 56705583600
- Scopus Link: <https://www.scopus.com/authid/detail.uri?authorId=56705583600>
- Google Scholar ID: raEx38YAAAAJ&hl=en
- Anna University Faculty ID: 278874
- AICTE Faculty ID:124486172101

## **PROFESSIONAL BACKGROUND:**

- Teaching Experience till date: 10+ years
- Industrial Experience: --

## **INTERNATIONAL EXPOSURE:**

### **Reviewer:**

- Reviewed a book chapter entitled Unsteady Free Convective Boundary Layer Flow of a Visco- elastic Fluid Past an Infinite Plate with Radiation Effects
- Reviewed article in Journal of intelligent fuzzy systems

## **AREA OF SPECIALIZATION:**

- Cryptography
- Fuzzy Graphs
- Discrete Mathematics
- Network Security

**COURSES CERTIFIED:**

- IUCEE Phase 1 International Engineering Educator Certification Workshop Completed Spring 2023
- UHV 1 by AICTE
- NPTEL- Teaching and learning in Engineering
- NPTEL- Fundamentals of Artificial Intelligence

**SPECIAL SESSIONS DELIVERED:**

- Resource Person in the National Mathematics Day in Krishnaswamy College for Women, Chennai
- Resource Person in SIMATS, Chennai

**CONFERENCES/SEMINARS/WORKSHOPS ATTENDED:**

- Attended a workshop of “Second INDIA-TAIWAN conference on Discrete Mathematics” organised by Dept. of Mathematics, AMRITAVISHWA VIDYAPEETHAM University, Ettimadai, Coimbatore-641 112.
- Attended a workshop on " Research Practices on Topics in Mathematics and Computer Science" held in August 7-8, 2014 at Madras Christian College, Tambaram, Chennai - 600 059, India.
- Participated a International symposium on Applications of Mathematics in Real World and Artificial Neural Networks on 11th March 2023, organized by Department of Mathematics, Data Science and Analytics, Hindusthan College of Arts and Science, Coimbatore.
- Participated a National Level webinar on A Novel Approach to Graph Theory held on 14th March 2023, organized by Department of Mathematics, Data Science and Analytics, Hindusthan College of Arts and Science, Coimbatore.
- Participated an Online Seminar on A Higher Management Technique for Decision Making held on 23rd May 2023, organized by Department of General Requirements UTAS-SALALAH.
- Participated in five days Online FDP on Inculcating Universal Human Values in Technical Education held during 12th to 16th June 2023 organized by All India Council for Technical Education (AICTE), New Delhi.
- Participated in seven days International Faculty Development Programme on Mathematics in Real, Applied and Computational Domains held during 3rd to 8th July organized by the Department of Mathematics, School of Science and Humanities, Sathyabama Institute of Science and Technology, Chennai.
- Participated in five days Online FDP on Leap into Fuzzy Logic Applications held during 12th to 16th June 2023 organized by Devision of Mathematics, School of Advanced Science, Vellore Institute of Technology, Chennai.

## PAPER PRESENTATION IN NATIONAL & INTERNATIONAL CONFERENCES

- R.Thamizharasi and R.Rajeswari ,“Various Labeling on The Cayley Digraph Associated with Alternating Group” Presented this paper in the Seventh Annual conference of ADMA held at National Institute of Technology, Calicut, Kerala, June 9-11,2011.
- R.Thamizharasi and R.Rajeswari presented a paper on the topic of “Product antimagic Graphs ” in the national Conference of “Discrete mathematics and its applications” organized by Dept. of Mathematics, M.E.S college, NedumKandam with the academic support of Kerala Mathematical Association from 6th to 8th Feb 2012.
- R.Rajeswari and R.Thamizharasi “Labeling and Line digraphs” in the National Conference of the Fifth National Conference on Mathematical Techniques and its Applications organised by Dept. of Mathematics, Faculty of Engineering and Technology, SRM University, Kattankulathur-603 203,Tamilnadu from 1st to 2nd March 2013. Vol: 6/Issue 2S3/ISSN: 0974-6846.
- R.Thamizharasi and R.Rajeswari “Hn Cordial labeling and Edge Graceful labeling of Cayley Digraphs” in the conference of “International Conference on Mathematical Computer Engineering” organized by Dept. of Mathematics, School of Advanced Sciences, VIT University, Chennai-600127,Tamilnadu from 29th to 30th November 2013. Vol:1/ISBN 978-93-82338-85-7
- R.Thamizharasi and R.Rajeswari “Cordial Labelings on Cayley Digraphs” in the National Conference on Pure and Applied Mathematics organized by Dept. of Mathematics, School of Advanced Sciences, VIT University, Chennai-600 127, Tamilnadu. 25th to 26th April 2014. ISBN 978-93-83459-46-9.
- R.Thamizharasi and R.Rajeswari “Ek Cordial Labeling and Total Bimagic Labeling of Cayley Digraphs” in the International Conference on Mathematical Sciences (ICMS-2014) conducted by Sathyabama University, Chennai from July 17-19, 2014.
- R.Thamizharasi and R.Rajeswari “Edge product Cordial Labelling and Total Magic Cordial Labelling of Regular Digraphs” in the International Conference of “ICONSTEM'15” organised by Jeppiaar Engineering college, Chennai-119, from March 26-27, 2015.

## JOURNAL PUBLICATIONS:

- R Thamizharasi and Ismail Naci Cagul,” An Effective Algorithm for Gracefulness on the Cartesian Product of Cayley Digraphs”, IAENG International journal of Computer Science, Vol 51, No 12, Dec 2024 (Scopus Indexed)
- R Thamizharasi, “Computational study on torsional casson fluid flow through concentric cylinders in a porous medium”, Alexandria Engineering journal, vol.108, pp 400-414, 2024 (SCI Indexed)
- R Thamizharasi, “Innovative Study on Complex Fuzzy Soft Graph and its Properties “ IAENG International Journal of Applied Mathematics, Vol 54, No 10, Oct 2024 (Scopus indexed)
- R Thamizharasi, R Rajeswari, and R Suresh, "Cordiality and Magicness of the Cartesian Product of Digraphs," IAENG International Journal of Applied Mathematics, vol. 54, no. 4, pp784-790, 2024 (Scopus indexed)

- R. Kavitha, E.Janaki, R.Thamizharasi “Influence of Chemical Process and Thermo-Diffusion Effects on Oscillatory MHD Flow in a Porous Medium with Absorption” in Journal of Survey in Fisheries Sciences, Vol10 (2S), Special Issue pp 2544-2551 (2023) (Scopus indexed)
- R.Thamizharasi and R.Rajeswari, “Application of labelled digraphs in protein networks for medical technology.”, Biomedical Research, Special issue, April 2017, ISSN : 0970-938X. (SCI indexed)
- R.Thamizharasi and R.Rajeswari, “Labelings of Cayley Digraphs and its Line Digraphs”, International Journal of Pure and Applied Mathematics, Volume 101 No. 5, 2015, ISSN: 1311-8080, pp.681-690(printed version); ISSN: 1314-3395 (on-line version), url: <http://www.ijpam.ijpam.eu> (Scopus indexed)
- R.Thamizharasi and R.Rajeswari, “Graceful and Magic Labelings on Cayley Digraphs”, International Journal of Mathematical Analysis, Vol. 9, 2015, No. 19, pp. 947-954. [www.m-hikari.com](http://www.m-hikari.com), <http://dx.doi.org/10.12988/ijma.2015.5388>. (Scopus indexed)
- R.Thamizharasi and R.Rajeswari, “Labeling on Line Digraphs”, Indian Journal of Science and Technology, Vol. 9 (44), DOI: 10.17485/ijst/2016/v9i44/85165, November 2016, ISSN (Print): 0974-6846. (Scopus indexed)
- R.Thamizharasi and R.Rajeswari, “Super Edge Graceful and Even Edge Graceful Labeling of Cayley Digraphs”, International Journal of Mathematics Trends and Technology (IJMTT) – Volume 50, No. 5, October 2017. (UGC listed)
- R.Thamizharasi and R.Rajeswari, “Edge product Cordial Labeling and Total Magic Cordial Labeling of Regular Digraphs”, International Journal on Information Sciences and Computing– Volume 9, No. 2, July 2015.

#### **PROFESSIONAL MEMBERSHIPS:**

- Lifetime Member Academy of Discrete Mathematics and Applications (ADMA)
- Lifetime Member in All India Council for Technical Skill Development (AICTSD)

#### **COORDINATOR:**

- Coordinated International Conference ICISH2024 (July 2024) in Saveetha Engineering College, Chennai