

## FACULTY PROFILE

Name : **Dr. S.Ramya**

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

Designation : Assistant Professor  
PG Department of Mathematics

Years of Teaching

Experience : UG : 21yrs PG : 2yrs

Years of Research

Experience : 10yrs

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Areas of Specialization : Fuzzy Graph Theory.

### Patents Published/filed:

- Covid Protocol Management- Published

### Journal Publications:

1. **S. Ramya<sup>1</sup>, S. Lavanya<sup>2</sup>** – “Graph Critical with respect to edge domination in fuzzy graphs”, Global Journal of Pure and Applied Mathematics, Volume 11, Number 5 (2015), pp. 3837-3845 (Scopus)
2. **S. Ramya<sup>1</sup>, S. Lavanya<sup>2</sup>** “Perfect vertex (Edge) domination in fuzzy graph”, Indian Journal of Science and Technology, Vol 9(4) (2016)
3. **S. Lavanya<sup>1</sup>, S. Ramya<sup>2</sup>** “Edge Contraction on Bipolar Fuzzy Graphs”, International Journal of Trend in Research and Development, Volume 4(4), ISSN: 2394-9333, 2017. (UGC Care)
4. **S. Ramya<sup>1</sup>, S. Lavanya<sup>2</sup>** “Graph critical with respect to Edge domination in Bipolar Fuzzy graphs, International Journal of Pure and Applied Mathematics, 2017 (Scopus)
5. **S. Ramya<sup>1</sup>, S. Lavanya<sup>2</sup>** “Edge domination in some special classes of fuzzy graphs” International Journal of Mathematics and its application, 6(2–A) (2018), 141–144, 2018. (UGC-Approved)
6. **S. Ramya<sup>1</sup>, S. Lavanya<sup>2</sup>** ‘Independent Domination in Fuzzy graphs”, Journal of Xidian University, 2020.
7. **S. Ramya<sup>1</sup>, S. Lavanya<sup>2</sup>** “The minimum Edge dominating energy of some Standard Graphs” Solid state Technology Volume: 63 Issue: 5, 2020. (Scopus)
8. **S. Ramya<sup>1</sup>, S. Lavanya<sup>2</sup>** “Contraction and Domination in Fuzzy Graphs” TWMS J. App. and Eng. Math. V.13, N.1, 2023, pp. 133-142. (Scopus & Web of Science)

### **Conference Paper Presentations/Workshops Attended:**

1. Edge domination in Fuzzy Graphs, International Conference on Mathematical computer emerging -ICMCE 2013, at Vellore Institute of Technology, Chennai on 29<sup>th</sup> &30<sup>th</sup> November 2013.
2. Graph critical with respect to edge domination in fuzzy graphs, International conference on applications of Mathematics in Modern technology, Queen Mary's college, Chennai 27<sup>th</sup> March 2014.
3. Graph critical with respect to independent domination in fuzzy graphs, International conference on Mathematics & Statistics gateway to modern technology, Sri Kanyaka Parameswari arts & science college for women held on 24<sup>th</sup> &25<sup>th</sup> July 2014.
4. Perfect edge domination in fuzzy graphs, international workshop on Parallel computing, at Vellore Institute of Technology, Chennai on 11th December 2014.
5. Edge Domination in bipolar fuzzy graphs, National conference on emerging trends in Mathematical science, S. A. Engineering college on 22<sup>nd</sup> December 2016.
6. Graph critical with respect to edge domination in bipolar fuzzy graphs, National conference on Mathematical techniques & their applications, S.R.M. Engineering college on 27<sup>th</sup> & 28<sup>th</sup> of January 2017.
7. Independent edge domination in fuzzy graph, international conference on recent advancements in applied Mathematics ICAMM-19, S.I.V.E.T college, 22<sup>nd</sup> November 2019.
8. Contraction & domination in fuzzy graphs, International e-conference on advanced research in science engineering, technology & Management (ICARSETM 2020), Sadhan women's college of Engineering & Technology, Hyderabad 24<sup>th</sup> & 25<sup>th</sup> July 2020
9. Domination in fuzzy graph structures, International conference on Mathematics & its application, Sacred heart college, on 5<sup>th</sup> & 6<sup>th</sup> May 2022.
10. ADMA Pre conference workshop on Fuzzy Graphs, B.S. Abdur Rahman university, 7<sup>th</sup> to 9<sup>th</sup> June 2015.
11. CSIR Sponsored international workshop on Graph theory & IOT in Engineering, Vellore Institute of technology, Chennai, 13<sup>th</sup> & 14<sup>th</sup> July 2018.
12. Two days' Workshop on "Innovative Pedagogies for Quality Enhancement in Engineering Education at R.M.K. Engineering College, Kavaraipettai on 24th and 25th January 2020.

### **Resource Person:**

Acted as a Resource person for a workshop on "**R-Programming**" organized by Valliammal College for Women, Chennai.

### **Faculty Development Program**

1. "Creation and development of MOOCs while managing online classes", conducted by Keshav Mahavidyalaya, University of Delhi in collaboration with Mahatma Hansraj Faculty Development Centre from 24<sup>th</sup> August to 31<sup>st</sup> August 2021.
2. "UHV Refresher 1", organised by All India council for Technical Education, from 30<sup>th</sup> August to 3<sup>rd</sup> September 2021
3. "Online Workshop on Mathematical Sciences for CSIR-UGC NET Aspirants", organised by St. Mary's College (Autonomous), Thoothukudi, from 19<sup>th</sup> to 23<sup>rd</sup> May 2020.
4. "Digital Teaching Techniques", organised by ICT Academy from 29 June 2020 to 4<sup>th</sup> July 2020.
5. "IIC's Online session", conducted by IIC of MHRD's Innovation cell from 28<sup>th</sup> April to 22<sup>nd</sup> May 2020.

6. Short term training program on “MATLAB for all” organised by Sri M Visvesvaraya Institute of Technology from 4<sup>th</sup> June to 8<sup>th</sup> June 2020.
7. “Machine Learning on ramp” by MathWork Training services, June 2020
8. Latex software development, R.M.D. Engineering college, 30<sup>th</sup> to 6<sup>th</sup> August.
9. Faculty Development program on IOT, R.M.K. Engineering College on 9.6.2017.
10. FDP on the theme Inculcating Universal Human Values in Technical Education, organized by AICTE, 19<sup>th</sup> to 23<sup>rd</sup> October 2020.

### **Certification Courses:**

1. Successfully completed “module-1 Orientation towards Technical Education and Curriculum aspects” of National Initiative for Technical Teachers Training (NITTTR).
2. Successfully completed “module-5 Technology enabled learning and life-long self-learning” of National Initiative for Technical Teachers Training (NITTTR).
3. Successfully completed Professional Development programme on “Life long learning and Innovation skills”, conducted by National Initiative for Technical Teachers Training (NITTTR).
4. Successfully completed “Descriptive statistics with R- Programming” in NPTEL in elite plus silver category.
5. Successfully completed “Introduction to abstract algebra” in NPTEL in elite category.
6. Successfully completed “Introduction to Calculus” in Coursera, August 2020.
7. Successfully completed “Mathematics for Machine Learning” in Coursera, July 2020.
8. Successfully completed “The Arduino Platform and C Programming” in Coursera, July 2020.
9. Successfully completed “Introduction to Data Science” offered by IBM in EDX, June 2021.
10. Successfully completed “Introduction to Research” in NPTEL in elite plus silver category.

### **Other Achievements:**

- Got Gold Medal in the Mechanics Paper in M.Sc.
- Received Best NSS volunteer certificate.
- Completed certificate course in C & C++.
- Completed Innovation Ambassador training (Foundation level)

### **Innovation in Teaching:**

- Posted various videos related to Statistics & Mathematics in YouTube.

#### Channel link

<https://www.youtube.com/channel/UCFDEIVxM9hAtCuwC7f-S6ag\>

- Served as a part in the “Kattal Inimai” – Digitalization of classrooms funded project of Unnat Bharath Aayan.
- Served as an Innovation ambassador under the Institutions Innovation council.