

Dr.R.Rajeswari

Assistant Professor

PG & Research Department of Mathematics

A.P.C.Mahalaxmi College for Women, Thoothukudi

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Date of Appointment : 01 July, 2011

Education : M.Sc., M.Phil., SET., Ph.D.,

Specialization : Algebraic Graph Theory

Education & Credentials

Degree	College / University	Specialization	Year
Ph.D	Manonmaniam Sundaranar University, Tirunelveli	Algebraic Graph Theory	2018
SET	Mother Teresa University, Kodaikanal	Mathematics	2017
M.Phil	A.P.C.Mahalaxmi College for Women, Thoothukudi	Gamma Near rings	2010
M.Sc	V.O.Chidambaram College, Thoothukudi	Mathematics	2009
B.Sc	V.O.Chidambaram College, Thoothukudi	Mathematics	2007

Research Guidance Offered

A) Research Experience : 8 years

B) Title of Thesis : A study on graphs from Gamma Near rings

C) No. of Students (M.Phil. Level) Guided : 5 Students

Online Course Registered

1. Matrix Analysis with Applications – 8 weeks Course – Swayam NPTEL (ongoing)

Proposal for organizing Seminar (Partial Financial Assistance)

Topic : Sustaining Environmental Health through fruitful utilization of

Natural Resources (Alumnae Association) on 20.09.19

Position : Coordinator

Status : Proposal submitted

Funding Agency : TANSHE

Student Project Proposal

Topic : A study on Stress Management skills among the undergraduate

women students in Thoothukudi

Position : Guide

Status : Proposal submitted

Amount : Rs.10,000/-Funding Agency : TANSHE

Conferences / Seminars / Workshops Attended

International Level

- 1. Three Day Workshop on "Algebraic Graph Theory and Mathematics Curriculum enrichment" in Manonmaniam Sundaranar University, Tirunelveli from 22nd to 24th Jan 2014.
- 2. Workshop on "Improving skills on publishing in Reviewed and Indexed journals" in Manonmaniam Sundaranar University, Tirunelveli on 28.03.14.

- 3. Seminar on "International Year of Mathematics for the Planet earth 2013" in St.Mary's College (Autonomous), Thoothukudi from 17.07.14 to 18.07.14.
- 4. Conference on Recent Advancements in information Technology, Science & Engineering at A.P.C.Mahalaxmi College for Women, Thoothukudi on 14.12.17.
- 5. Conference on "Applications of Mathematics" in St.Mary's College (Autonomous), Thoothukudi on 11.01.18.
- 6. Conference on "Recent Trends in Multi Disciplinary Research" at V.O.Chidambaram College from 19.04.2018 to 20.04.2018.
- 7. Conference on "Recent Trends in Multi Disciplinary Research" at A.P.C.Mahalaxmi College for Women, Thoothukudi from 20.12.2018 to 21.12.2018.

National Level

- 1. Conference on "Modern Trends in Pure and Applied Mathematics" at Sri Kaleeswari College, Sivakasi on 17.09.11.
- 2. Seminar on "Recent Trends in Mathematics" at A.P.C.Mahalaxmi College for Women, Thoothukudi, from 12.10.11 to 13.10.11.
- 3. Conference on "Fuzzy optimization and Graph Theory with applications" at Mepco Schlenk Engineering College, Sivakasi from 23.02.12 to 24.02.12.
- 4. Seminar on "Graph Theory and Topology" at V.O.Chidambaram College, Thoothukudi on 02.04.12.
- 5. Seminar on "Emerging Trends in Graph Theory and Fuzzy Mathematics" at A.P.C.Mahalaxmi College for Women, Thoothukudi on 06.09.13.
- 6. Arumugam Endowment one day Seminar on "Graph Theory" at Manonmaniam Sundaranar University, Tirunelveli on 02.12.14.
- 7. Conference on "Advances in Fuzzy Algebra, Fuzzy Topology and Fuzzy Graphs at A.P.C.Mahalaxmi College for Women, Thoothukudi from 22.01.15 to 23.01.15.

- 8. Conference on "Discrete Mathematics and its Applications" at Manonmaniam Sundaranar University, Tirunelveli on 16.07.15.
- 9. Seminar on "Mathematics and its application scenario in 21st century" at A.P.C.Mahalaxmi College for Women, Thoothukudi on 28.02.17.
- 10. Conference on "Demonetization and Cashless Economy" at A.P.C.Mahalaxmi College for Women, Thoothukudi on 02.03.17.
- 11. Seminar on "Recent Trends in Topology" at V.O.Chidambaram College, Thoothukudi on 24.03.17.
- 12. Seminar on "Discussions, Interactions and Literature on Gender Studies DIALOGS 2017" at A.P.C.Mahalaxmi College for Women, Thoothukudi on 06.07.17.
- 13. Seminar on Graph Theory and its Applications at Sadakathullah Appa College (Autonomous), Rahmath Nagar, Tirunelveli on 14.09.17.
- 14. First two endowment lectures of Prof. T.Tamizh Chelvam at Manonmaniam Sundaranar University on 20.08.2019.

State Level

- 1. Seminar on "Recent Developments in Algebra and Graph Theory" at A.P.C.Mahalaxmi College for Women, Thoothukudi on 30.09.15.
- 2. Workshop on NET Training Programme at A.P.C.Mahalaxmi College for Women, Thoothukudi on 22.12.17.
- 3. Workshop on Scholarly writing and Publishing Research Papers at V.O.Chidambaram College at 02.02.2019.
- 4. Faculty Development Programme on "Role of faculty in institutional development" at V.O.Chidambaram College, Thoothukudi on 17.08.19

Papers Presented in Conferences / Seminars

International Level

- A Note on SG algebras in a Conference on "Recent Advancements in information Technology, Science & Engineering" at A.P.C.Mahalaxmi College for Women, Thoothukudi on14.12.17.
- 2. **Anti-fuzzy ideals in Boolean like semi rings** in a Conference on "Recent Advancements in information Technology, Science & Engineering" at A.P.C.Mahalaxmi College for Women, Thoothukudi on14.12.17.
- 3. **On Intuitionistic fuzzy bi ideals in Boolean like semi rings** in a Conference on "Recent Trends in Multi-Disciplinary Research" at V.O.Chidambaram College, Thoothukudi from 19.04.18 to 20.04.18.
- 4. **On Intuitionistic fuzzy ideals in Boolean like semi rings** in a Conference on "Recent Trends in Multi-Disciplinary Research" at V.O.Chidambaram College, Thoothukudi from 19.04.18 to 20.04.18.
- 8. On fuzzy ideal based fuzzy zero divisor graphs on gamma near rings in a Conference on "Recent Trends in Multi Disciplinary Research" at A.P.C.Mahalaxmi College for Women, Thoothukudi from 20.12.2018 to 21.12.2018.
- 9. Structure in the zero divisor graph of a non commutative gamma near rings in a Conference on "Recent Trends in Multi Disciplinary Research" at A.P.C.Mahalaxmi College for Women, Thoothukudi from 20.12.2018 to 21.12.2018.
- 10. **C prime anti fuzzy bi ideals in gamma near rings** in a Conference on "Recent Trends in Multi Disciplinary Research" at A.P.C.Mahalaxmi College for Women, Thoothukudi from 20.12.2018 to 21.12.2018.
- 11. **Interval valued fuzzy ideals in Boolean like Semi rings** in a Conference on "Recent Trends in Multi Disciplinary Research" at A.P.C.Mahalaxmi College for Women, Thoothukudi from 20.12.2018 to 21.12.2018.
- 12. **Interval valued anti fuzzy ideals in Boolean like semi rings** in a Conference on "Recent Trends in Multi Disciplinary Research" at A.P.C.Mahalaxmi College for Women, Thoothukudi from 20.12.2018 to 21.12.2018.(**received Best Paper award**)

- 13. **On intuitionistic fuzzy k bi ideals of Boolean like semi rings** in a Conference on "Recent Trends in Multi Disciplinary Research" at A.P.C.Mahalaxmi College for Women, Thoothukudi from 20.12.2018 to 21.12.2018.
- 14. **C prime fuzzy bi ideals in Boolean like semi rings** in a Conference on "Recent Trends in Multi Disciplinary Research" at A.P.C.Mahalaxmi College for Women, Thoothukudi from 20.12.2018 to 21.12.2018.
- 15. **On Quasi weak commutative semi near rings** in a Conference on "Recent Trends in Multi Disciplinary Research" at A.P.C.Mahalaxmi College for Women, Thoothukudi from 20.12.2018 to 21.12.2018.
- 16. **C prime anti fuzzy bi ideals in Γ-Near-Rings** in a Conference on "Recent Trends in Multi Disciplinary Research" at A.P.C.Mahalaxmi College for Women, Thoothukudi from 20.12.2018 to 21.12.2018.

National Level

- 1. **Fuzzy ideals in Boolean like Semi-rings** in a Seminar on "Emerging Trends in Graph Theory and Fuzzy Mathematics" at A.P.C.Mahalaxmi College for Women, Thoothukudi on 06.09.13.
- 2. **Fuzzy Bi -ideals in Boolean like Semi-rings** in a UGC sponsored Two Day Conference on "Advances in Fuzzy Algebra "Fuzzy Topology and Fuzzy Graphs" at A.P.C.Mahalaxmi College for Women, Thoothukudi on 22.01.15 to 23.01.15.
- 3. **Fuzzy ideal based fuzzy zero zero divisor graph on gamma near ring** in a Seminar on "Mathematics and its application scenario in 21st century" at A.P.C.Mahalaxmi College for Women, Thoothukudi on 28.02.17.
- 4. **Zero divisor graph of gamma near rings** in a Seminar on "Graph Theory and its Applications" at Sadakathullah Appa College (Autonomous), Rahmath Nagar, Tirunelveli on 14.09.17.
- C Prime anti fuzzy bi ideals in Boolean like Semi rings in a Conference on "Pure and Applied Mathematics" at Wavoo Wajitha Women's Arts College, Kayalpattinam on 25.09.19.

- 6. **A new class of closed sets in Topological Spaces** in a Conference on "Pure and Applied Mathematics" at Wavoo Wajitha Women's Arts College, Kayalpattinam on 25.09.19.
- 7. **Connected regular domination in zero divisor graphs** in a Conference on "Pure and Applied Mathematics" at Wavoo Wajitha Women's Arts College, Kayalpattinam on 25.09.19.

Book Publications

1. Eminent Mathematicians, Charulatha Publications, ISBN - 13:978 - 93 - 89051 - 81 - 0

Chapter Edited

1. Woman emancipation in Primeval India – Reminiscing the Custom, Let equality Flourish, Charulatha Publications, ISBN: 13:978-93-89051-64-3.

Paper Publications

- An ideal based zero divisor graph of gamma near ring in International Journal of Mathematical Archives, Vol.4, No.12 (2013), 235-240, ISSN: 2229 – 5046 IF: 4.908 (UGC Approved)
- 2. Fuzzy ideals in Boolean like Semi-rings in Enrich, Vol.V (II), 60-66(2014), ISSN: 2319 6394.
- 3. **Fuzzy Bi -ideals in Boolean like Semi-rings** in Proceedings of the UGC sponsored Two Day National Conference on Advances in Fuzzy Algebra ,Fuzzy Topology and Fuzzy Graphs, January 2015,17 29, **ISSN:** 2319 6394.
- 4. **Zero divisor graph of gamma near rings** in Proceedings of National Seminar on Graph Theory and its Applications 2017, 38 47, **ISBN:** 978-81-93-5198-1-3.
- 5. On the annihilator graph of a gamma near rings in International Journal of Mathematical Archives Vol. 8, No.12 (2017), 153-156, ISSN:2229 5046, IF: 7.543 (UGC Approved)
- 6. A Note on SG algebras in International journal of science, Engineering and Management, Vol 2 (12), December 2017,238 240, ISSN: 2456 1304, IF: 2.7.

- 7. **Anti-fuzzy ideals in Boolean like semi rings** in International journal of science, Engineering and Management, Vol 2 (12), December 2017, 6 9, **ISSN**: 2456 1304,**IF**: 2.7.
- 8. **On Intuitionistic fuzzy ideals in Boolean like semi rings** in International Journal of Recent Research Aspects, April 2018, 487-490, **ISSN:** 2349 7688, **IF: 1.235.**
- 9. **On Intuitionistic fuzzy bi ideals in Boolean like semi rings** in International Journal of Recent Research Aspects, April 2018, 613 616, **ISSN**: 2349 7688, **IF: 1.235**.
- 10. On fuzzy ideal based fuzzy zero divisor graphs on gamma near rings, Journal of emerging Technologies and Innovative Research, Vol 6, Issue 2 February 2019,354 359, ISSN: 2349 5162, IF:5.87.
- 11. Structure in the zero divisor graph of a non commutative gamma near ring, Journal of emerging Technologies and Innovative Research, Vol 6, Issue 2 February 2019, 360 364, ISSN:2349 5162, IF:5.87.
- 12. **Anti-fuzzy bi ideals in Boolean like semi ring rings,** Journal of emerging Technologies and Innovative Research, Vol 6, Issue 2 February 2019, 1215 1219,**ISSN:** 2349 5162, **IF:5.87.**
- 13. C prime anti fuzzy bi ideals in gamma near ring, Journal of emerging Technologies and Innovative Research, Vol 6, Issue 2 February 2019, 443 -447, ISSN: 2349 5162, IF:5.87.
- 14. **Interval valued fuzzy ideals in Boolean like Semi rings,** Journal of emerging Technologies and Innovative Research, Vol 6, Issue 2 February 2019, 772 777,**ISSN:**2349 5162, **IF:5.87.**
- 15. **Interval valued anti fuzzy ideals in Boolean like semi rings**", Journal of emerging Technologies and Innovative Research, volume 6, Issue 2 February 2019, 718 723, **ISSN**: 2349 5162, **IF:5.87** (received Best Paper award).
- 16. **On intuitionistic fuzzy k bi ideals of Boolean like semi rings,** Journal of emerging Technologies and Innovative Research, volume 6, Issue 2 February 2019, 748 752, **ISSN**: 2349 5162, **IF:5.87.**

- 17. **C prime fuzzy bi ideals in Boolean like semi rings**, Journal of emerging Technologies and Innovative Research, volume 6, Issue 2 February 2019,376 380,**ISSN:** 2349 5162, **IF:5.87.**
- 18. **On Quasi weak commutative semi near rings,** Journal of Science, Engineering and Management, Volume 4, Issue 1, January 2019, 21 23, **ISSN:**2456 1304, **IF:2.7.**
- 19. **Sum Cordial Zero Divisor Graphs** Proceedings on International Conference on Graph Theory and its applications, 2019, 47 52, **ISBN**: 978 81-938054 7 3.

Total Teaching Experience

UG : 9 years and 5 months

PG : 9 years and 5 months

M. Phil : 9 years and 5 months

Remarkable Achievements

- Served as a Chair Person in an International Conference on Recent Trends in Multi-Disciplinary Research at A.P.C.Mahalaxmi College for Women, Thoothukudi on 20.12.2018 to 21.12.2018.
- ➤ Got Best Paper award for the Paper "Interval valued anti fuzzy ideals in Boolean like semi rings.
- ➤ Served as a Judge in Pencil Drawing Competition on Inter School Competition at A.P.C.Veerabahu Matriculation and Higher Secondary School, Thoothukudi on 05.11.19.
- Active Professional member of Institute for Engineering research and Publication from 20.11.2019 to 31.12.2020.

Participation in College Committees

- ➤ In charge of Students' Union Activity Committee (2015 2018)
- ➤ Member of Quiz Club (2011 2018)
- ➤ Member in Criterion VII
- ➤ Member in Career Guidance Cell(2018 2019)
- ➤ Member in Discipline Committee(2018 2019)

- ➤ Member in Placement Cell(2019 till date)
- > Editorial board member in MATH QUEST Department journal