

Curriculum – Vitae



Dr. Amala Maduri

Asst. Professor (Mathematics), Dept. of BS&H

School of Engineering and Technology

Sri Padmavati Mahila Visvavidyalayam

Tirupati – 517502

Contact: 9989219700

Email: amalamaduri@gmail.com

1. ACADEMIC QUALIFICATIONS

| Degree | Board/University | Year of Passing | Specialization/Area |
|--------------|--|--------------------------------------|--|
| Ph. D | Yogi Vemana University, Kadapa | 2016 | Mathematics Algebra (Semiring theory) |
| B.Ed | Yogi Vemana University, Kadapa | 2011 | Mathematics, English |
| M.Sc. | Yogi Vemana University, Kadapa | 2010 First Rank Holder | Applied Mathematics |
| B.Sc. | Sri Venkateswara University, Tirupati | 2008 | Mathematics, Statistics, Computer Science |

Ph.D. Topic : Structure of Certain classes of Semirings and ordered Semirings

(a) Details of NET/GATE/CSIR : ---

(b) Details of SET/SLET : **Qualified APSET in October 2021**

PROFESSIONAL EXPERIENCE: 4 Years

| Organization | Position | Period | No. of Years |
|--|---------------------|---------------|---------------------|
| School of Engineering & Technology, Sri Padmavathi Women's University, Tirupati-517502. Andra Pradesh. | Assistant Professor | 18.06.2018 | Till date |

| | | | |
|--|--------------------------------------|------------------------------|---------------------|
| Government Junior college for Boys, Anantapur | Junior Lecturer on Contract basis | 12-07-2011 to 27- 03-2012 | 9 Months |
| YSR Engineering College, Proddatur, Kadapa | Academic consultant | 20-10-2010 to 05-07-2011 | 8 Months 25 Days |

RESEARCH EXPERIENCE : 7 years

DETAILS OF RESEARCH GUIDANCE: ---

RESEARCH PUBLICATIONS: 21

- **List of Publications in International Journals : 21**
Communicated: 01 **UGC CARE LIST- A and WEB OF SCIENCE.**
- **List of Publications in National Journals : --**
- **Book Publications : 02**
- **Papers Presented in Seminars/Conferences : 27**
 - **National Level 17**
 - **International Level 10**
- **Workshops/FDP/Training Programmes Attended : 26**

List of Publications: 22

Published: 21

Communicated: 01

List of Publications in International Journals: 21

**1. Classes of T* semiring, Indian Journal of Science and Technology, Year: March 2022, Volume: 15, Issue:11, Pages: 489-494 . ISSN Print: 0974-6846 Electronic: 0974-5645.
DOI: 10.17485/IJST/v15i11.1020. UGC CARE LIST- A and WEB OF SCIENCE.**

2. G.Rajeswari, T.Vasanthi, M.Amala, and Lakshmi Narayana. "Journal of Mechanics of continua and Mathematical sciences", Some properties of square absorption semirings, Vol 15, No. 8 August 2020, PP 727-733, ISSN (online) 2454- 7190, UGC CARE LIST- A and WEB OF SCIENCE.

3. G.Rajeswari, M.Amala and T.Vasanthi, “Indian Journal of Science and Technology”, “Some special Structures of S^* and A^* Semiring”, **2020; 13(39), PP 4109–4115. ISSN Print: 0974-6846 Electronic: 0974-5645. UGC CARE LIST- A and WEB OF SCIENCE.**

4. G.Rajeswari, T.Vasanthi and M.Amala, “Advances in Mathematics Scientific Journal, Structure of T-Semiring, Scientific journal 9 (2020) No. 12 10957-10968. ISSN 1857-8365 (printed) 1857-8438(electronic). **UGC CARE LIST- A and Scopus Indexed.**

5. M.Amala and N.Sulochana, “On the Additive and Multiplicative structures of Regularity and Unit element” International Journal for Research in Engineering Application and Management (IJREAM) Vol-04, Issue-03, PP 694-696, June 2018. **ISSN : 2454-9150. Impact factor 5.646**
Approved by UGC List No. 64077.

6. M.Amala, “Some Constrains on Absorption and Right Regular Semirings” International Journal of Current Research Vol. 8, Issue, 10, pp.40456-40458, October, 2016. **ISSN: 0975-833X.**
Indexing: Google Scholar, Researcherid, J-gate, Index Copernicus, world cat, Indian science, Scribd.

7. M.Amala, “A Brief Note on the Classes of Absorption Semiring” World Journal of Engineering Research and Technology, WJERT 2016, Vol. 2, Issue 6, 12 -19. **ISSN 2454-695X. Impact factor 3.419. Indexing: Scientific Research Publishing. H5 Index- 7*. Citation count 1040**

8. M.Amala, “On the Additive and Multiplicative Structures of Idempotent Semirings” International Journal of Research in Engineering, IT and Social Sciences, Volume 06, Issue 09, September 2016, Page 16-19. **ISSN 2250-0588, Impact Factor: 6.452. UGC approved Journal No. 42301**

Indexing: Cite factor, cosmos factor, open J-Gate, Google scholar, index copernicus, SJIF, Researcherid.

9. N.Sulochana*1, M.Amala2, “On the Structures of Regular Semirings”, World Journal of Engineering Research and Technology, WJERT 2016, Vol.2, Issue 5, PP 245 -253. **ISSN 2454-695X.**

Impact factor 3.419. Indexing: Scientific Research Publishing, H5 Index- 7*. Citation count 1040.

10. M.Amala*1, N.Sulochana2 and T.Vasanthi3, “Classes of Regular Semiring”, IOSR Journal of Mathematics (IOSR-JM), Volume 12, Issue 5 Ver. I (Sep. – Oct. 2016), PP 70-71. **e-ISSN: 2278-5728, P-ISSN: 2319-765X. Impact factor 1.759.**

Indexing: Crossref DOI is 10.9790, NASA, J-GATE, Google Scholar.

11 M.Amala*1, N.Sulochana2 and T.Vasanthi3, “Structure of Multiplicatively Sub idempotent Semirings”, International Refereed Journal of Engineering and Science (IRJES) Volume 5, Issue 8 (August 2016), PP.29- 32, **ISSN (Online) 2319-183X, (Print) 2319-1821. AQJ Impact factor 2.31.**

Indexing: J-GATE, Google Scholar, Index Copernicus, Ulrichs Web, Jour Informatics, cabell’s Directories.

12. N.Sulochana, M.Amala, and Y.Monikarchana, “A Simple Study on the Structures of Zeroid and Ordered Semirings,” International Research Journal of Advanced Engineering and Science, Volume 1, Issue 4, pp. 26-28, 2016. **ISSN: 2455-9024. SJIF 5.23.**

Indexing: Google Scholar, Research Erid.

13. N.Sulochana*1, M.Amala2 and T.Vasanthi3, “A Note on Left Regular Semiring” International Journal of Engineering Research and Applications (IJERA) Vol. 6, Issue 8, (Part -4) August 2016, PP.08-10. **ISSN 2248-9622, Impact factor 1.69. UGC Approved journal**

Indexing: Google Scholar, DOAJ, NCBI, cabell’s Directories, Index Copernicus, NASA ADs

14. M.Amala*1, N.Sulochana2 and T.Vasanthi3, “A Study on the class of Semirings”, International Journal of Modern Research in Engineering and

Technology (IJMRET), Volume 1 Issue 2 July 2016. PP 5-7. ISSN 2456-5628 Impact factor 0.676.

Indexing: Google Scholar, Academic resource index, world cat

15. N.Sulochana*¹, **M.Amala**² and T.Vasanthi³, “A Study on the Classes of Semirings and Ordered Semirings”, Advances in Algebra Volume 9, Number 1 (2016), pp. 11-15. ISSN 0973-6964.

All rights are reserved with Research India Publications.

16. **M.Amala**¹ and T.Vasanthi², “Classes of K-Regular Semiring” Special Issue on Computational Science, Mathematics and Biology IJCSME- SCSMB- 16-March- 2016 PP 37-38. ISSN-2349-8439.

Indexing: Google Scholar, scribd.

17. **M.Amala***¹ and T.Vasanthi², “Idempotent Property of Semirings” International Research Journal of Pure Algebra-5(9), 2015, PP 156-159. ISSN: 2248-9037. **Impact value 5.09.**

Journal Indexing: Cite Factor, World Cat, Vifamath, Index Copernicus, SJIF Impact Factor, Directory of Science, Electronic Journals Library, Road directory of open Access, Cosmos impact factor, Scientific Indexing Services, International Society for Research Activity (ISRA) Journal-Impact-Factor (JIF) .

18. **M.Amala** and T.Vasanthi, “Constraints over Semirings”, “International Journal of Scientific and Innovative Mathematical Research (IJSIMR)”. Volume 3, Special Issue 1, July 2015, PP 47-49, ISSN 2347-307X (Print). **Impact factor 4.433.**

Indexing: CrossRef, Index Copernicus ICV 2015: 66.70, Google Scholar .

19. T.Vasanthi¹ and **M.Amala**², “Some Special Classes of Semirings and Ordered Semirings”, Annals of Pure and Applied Mathematics, Vol. 4, No.2, 2013, PP 145-149. ISSN 2279-087X (P), 2279-0888 (online). **Impact factor 1.014.**

20. **M.Amala** and T.Vasanthi, “Some Studies on Semirings and Ordered Semirings”, International Journal of Engineering Inventions, Volume 3, Issue 3, October - 2013, PP.12-14. e-ISSN 2278-7461, P-ISSN: 2319-6491. **Impact factor 1.212.**

21. T.Vasanthi* and **M.Amala**, “Structure of Certain Classes of Semirings”, International Journal of Mathematical Archive, 4 (9) (2013), PP.92-96. ISSN: 2229-5046. **Impact value 5.09.**

Paper Presentations in Conferences/Seminars : 27

International Conferences : 10

- 1. International Conference** on Relevancy of Ancient Mathematics to The Current Digital Trends (Icramcdt2022) " **Structures Of Additively Inverse Semiring**" 09-11, 2022, organized by the Department of Mathematics, National Sanskrit University, Tirupathi, Andhra Pradesh.
- 2.** "Progress in Mathematics towards industrial Applications (PMTIA-2022) " Structures of Additive Inverse Semiring" organized by Department of Mathematics, SRMIST, Ramapuram, Tirupati during 09th and 11h October, 2022.
- 3. International Virtual Conference** on "Progress in Mathematics towards industrial Applications (PMTIA-2022) " Structures of Additive Inverse Semiring" organized by Department of Mathematics, SRMIST, Ramapuram, Chennai during 28th and 29th October, 2022.
- 4. International Conference on Mathematical Sciences and Energy Applications in Technology (ICMSEAT- 2022)** "Structures of Additive Inverse Semiring" **September 9-11, 2022**, organized by **GITAM DEEMED UNIVERSITY, Hyderabad.**
- 5. International Conference on Mathematical Sciences and Applications (ICMA-2020)** "Some special classes of semiring" **Jan 27-29, 2020** Organized by PG and Research Department of Mathematics Sacred Heart college, Tirupattur, Tamilnadu.
- 6. IInd International Conference on Emerging Trends in Engineering, Sciences & Management –2018 (ICEESM'18)** "Structures Generated by Totally Ordered Semiring" ICEESM-2018, Dec - 21 – 22, 2018 Organized by Department of Mathematics, RGM College of Engineering & Technology, Nandyal, A.P,
- 7. "International Conference on Computational, Mathematical and Biological Modelling (ICMBM16)"** March 25th – 26th, 2016 on "Classes of K-Regular Semiring" in "Sri Padmavathi Mahila Visvavidyalayam (Women's University)" Tirupati .
- 8. "International Conference On Mathematical Sciences"** (ICMS)-2015, 13th -15th July 2015, S.V. University, Tirupati on "Constrains over Semirings".
- 9. II International conference** on "Applications of Fluid Dynamics" (ICAFD-2014), July 21st -23rd, 2014, S.V. University, Tirupati on "On the Additive and Multiplicative Structure of Semiring".

10. International Conference on “Semigroups, Algebras and Operator Theory” on “Properties of Semirings” in Cochin University of Science and Technology on Feb 28th to Mar 1st 2014, Kochi, Kerala.

National Level : 17

1. National Seminar on “Application oriented Mathematical sciences” on March 02nd 2020 in Department of Applied Mathematics, Yogi Vemana University, Kadapa on “Applications of complemented Semiring”.
2. National Conference on Mathematics and its Applications (NCMIA-2019) Department of Mathematics on “Structures of Semiring” on March 28th and 29th 2019 in S.V. University, Tirupati.
3. National Conference on Recent Advances in Mathematics (NCRAM-2019) , Department of Mathematics on “Additive And Multiplicative Structures Of Left Regular Semiring” on March 19th and 20th 2019 in S.V. University, Tirupati.
4. Andhra Pradesh Science Congress 2018 on November 9th 2018 at Yogi Vemana University, Kadapa.
5. National Seminar on Advances in Research and Innovations in Mathematics (NSARIM - 2018) On “The Variety of B-Semiring Generated by Band Semiring” at Yogi Vemana University, Kadapa.
6. National conference on “Recent Advances in Mathematics and its Applications” on “Structures of Zeroid” on 29th August 2017 in S.V. University, Tirupati.
7. UGC National Seminar on “Recent Trends and Challenges in Mathematical Sciences (Nsrtcms-2015)" November 28th -29th, 2015, Department of Mathematics, S.K.University, Anantapuramu on “On the Additive Structure of a Class of Semirings”.
8. National Seminar on “Frontiers in Mathematics” on March 18th to 19th 2015 in Department of Applied Mathematics, Yogi Vemana University, Kadapa on “ Some Studies on Ordered Semirings”.

9. National Conference on “Women in Mathematics with Special reference to Lilavati” on “A Brief Outlook of Class of Semiring” in Department of Mathematics at SPW Degree & PG College for Women on March 7th & 8th, 2015, Tirupati.

10. National Conference on “Recent Developments in Applications of Mathematics in Science & Engineering” on “Some Studies on Semirings” in Department of Humanities and Sciences at Annamacharya Institute of Technology And Sciences, Rajampet on January 10th -11th, 2015.

11. National Seminar on “Physical, Biological & Social Sciences at Degree Level” held on January 5th & 6th, 2015 at the K.S.N Govt. Degree College for Women, Anantapur on “Certain Classes of Semirings”.

12. National Seminar on “Emerging trends in Mathematics and its Applications” in Acharya Nagarjuna University, Ongole on 6th-7th March 2014 on “A note on Semirings”.

13. National Seminar on “Recent trends in Digital Image Processing and Applications”, on 17th and 18th February 2014 in Department of Computer Applications at Yogi Vemana University, Kadapa on “Constrain semirings over a semiring”.

14. National seminar on “Recent developments in Algebra and its Applications to Science and Technology”, S K University, Anantapur “Structures of idempotent Semirings” on 29th – 30th November 2013.

15. National Seminar on “Recent Developments in Mathematical Sciences” on 28th June 2013 on “A simple Study of Semiring” in S.V.University, Tirupati.

16. National Seminar on Advances in Fluid Dynamics” on 30th May 2013 on “Structures of Absorption Semiring” in S.V. University, Tirupati.

17. National seminar on “Mathematical Modeling in Science and Technology” on “Properties of Semirings Satisfying the Identity” on February 27th–28th 2013 at SKR & SKR Govt. Degree College for Women, Kadapa.

Conferences/Seminars/workshops/FDP’s/Training Programme Attended: 26

1. Participated on International Workshop on Approaches of Stochastic Modeling and Data Science for Sustainable Development, organized by Dept. of Statistics, S.V.University, Tirupati on 7th to 11th September, 2022

2. A Five day National Level online PDP on “Writing Research Articles in Mathematics and Statistics” from 26th to 30th September, 2022 jointly organized by Department of Mathematics, NFDC, Uppal, Hyderabad. Telangana and P.G and Research, Department of Mathematics, Auxilium College, Gandhinagar, Vellure, Tamilnadu.

3. Participated in National seminar on National Education Policy-2020: A Real Map to Revamp the Indian Higher Education System” on 22-23, March, 2022 organised by S.V. University and Sri Padmavati Mahila Visvavidyalayam, Tirupati.

4. Participated National Webinar on “Ideas for Data Analysis Using Excel” organized by the Department of Statistics, SPMVV, Tirupati, on 17th February 2022.

5. Participated International Symposium on Mathematical Sciences and their Applications: MSATA-2022 (Blending Mode) organizing Department of Applied Mathematics, Yogi Vemana University Kadapa on 28th & 29th January 2022.

6. Participated One Week Virtual International Lecture Workshop on New Advances in Mathematical and Computational Sciences” (NAMCS-2021) Organized by Department of Applied Mathematics, Yogi Vemana University, Kadapa held on 13th to 18th September 2021.

7. National Webinar entitled Mathematical Approches in Science and Engineering conducted by Yogi Vemana Univesity Kadapa, at 1st March 2021.

8. National Webinar on Recent Evolutions in Mathematics December 21st and 22nd 2020.

9. National webinar on "Mathematics Perspectives in Applied Sciences ", September 29th-30th 2020, Yogi Vemana University, Kadapa.

10. Webinar on Mental Health in Tough times, Sept 24th 2020, 4 to 5 pm, SPMVV, Tirupati.

11. **FDP** on NAAC Revised Accreditation Framework: An Overview (FDP-NRAF 2020) September 14th -19th, 2020, 4.00 to 6 PM Organized by Internal Quality Assurance Cell, Sri Padmavati Mahila Visvavidyalayam (Women's University) Tirupati, A.P.

12. National Webinar on NAAC ASSESSMENT AND ACCREDITATION PROCESS & AWARENESS about the NEP-2020 26th August, 2020.

13. Six Day Online **FDP** "Applications of Mathematics in Engineering and Sciences" organized by Department of Humanities and Sciences, Sri Venkateswara Institute of Science & Technology, Kadapa, held from 20th - 25th August, 2020., Kadapa, A. P.

14. **Short term training programme on Assessment and Evaluation** conducted National institute of Technical teachers a training and Research, Kolkata 10th to 14th June 2019 SPMVV, Tiruapti.

15. FDP 201x conducted by IIT, Bombay Approved by AICTE **Pedagogy for online and Blender Teaching Learning process** September 13th 2018 October 18th 2018.

16. FDP 101 x conducted by IIT, Approved by AICTE Bombay **FDP in ICT for Education** October 30th 2018 December 13th 2018.

17. **One Week Wolfram Workshop** on "Computational Mathematics in Engineering" organized by **Department of Mathematics**, RGM College of Engineering and Technology, Nandyal from October 24th -30th 2017.

18. National workshop on "Environmental protection and Management" Feb 14-15th 2014, Yogi Vemana University, Kadapa.

19. National workshop on “Mathematics and its Applications”, Feb 04-06th 2014, Yogi Vemana University, Kadapa.

20. one day conference in “Research methodology” on Nov 26th 2012, Yogi Vemana University, Kadapa

21. National workshop on “Personality enrichment and employability skills” on October 4th – 6h 2012, Yogi Vemana University, Kadapa.

22. UGC sponsored Short Term Course on Writing Research Methodology, Techniques of writing Research Articles for SCI journals and Ph.D Thesis Preparation in Anna University, Chennai on March 6th – 7th 2013.

23. One day Workshop on “Emerging Trends of Cloud Computing” on September 2012 in Yogi Vemana University, Kadapa.

24. National Workshop on “Recent trends in Mathematical and its Applications” on March 28th 2012 at Yogi Vemana University, Kadapa.

25. National workshop on “Discrete Mathematics, Algebra and their Applications” in Yogi Vemana University on February 7th – 11th 2011.

26. National Seminar on “Mathematical Modeling of Ground Water Pollution” in Yogi Vemana University on 30th – 31st January 2010.

Personal Details:

| | |
|-----------------------------------|---|
| Name | Dr.Amala Maduri |
| Date of Birth | 16/06/1988 |
| Gender | Female |
| Father's Name | M.Subbarayudu |
| Religion & Nationality | Hindu & Indian |
| Marital Status | Married |
| Languages Known | Telugu, English, Hindi |
| Address For Communication | D.-No 9-49-1, Thummalagunta, Near Telugu Thalli Statue, Tirupati -517502 |

DECLARATION

I hereby declare that foregoing information is correct and complete to the best of my knowledge and belief.

Tirupati

21/12/2022

Yours sincerely,

(Dr.M.AMALA)