

FACULTY PROFILE

Name : Dr. Sr. Anthoni Amali A.
Designation : Assistant Professor
Qualification : M. Sc., M. Phil, Ph.D.
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amalia@auxiliumcollege.edu.in
Teaching Experience : 5 Years.
Area of specialization : Fuzzy Mathematics, Decision Making, Graph Theory and
Fuzzy Graph Theory

Positions Held In Auxilium :

- Auxilium College (Autonomous) Dean of Ethics
- Auxilium College (Autonomous) Dean of Day Hostel
- Research Ethics, Publication & IPR committee Member
- Board of Studies Member
- Educative Community Member
- Auxilium College (Autonomous), Council member.
- Auxilium College (Autonomous), Alumni member.
- Auxilium College (Autonomous), Society member.

Projects Completed / Ongoing:

Title of the Project	Name of the Funding Agency	Duration	Remarks
Seed Money Project for Alternate Quadra Sub – Merging Polar Fuzzy Soft Graph and its Mathematical Implementations.	Auxilium College(Autonomous), Vellore	2 Yrs	Ongoing

No. of Papers Published: 09

No. of Papers Presented in the National/ International/ Seminars/ Workshops/
Conferences: 7

No. of Seminars/Workshops/Conferences/ Retreats organized: 6

Responsibilities held:

- Mentor and tutor for II B.Sc. Mathematics (2024 – Till Date).
- Department Logbook reporter for the Academic Year 2024-2026.
- Auxilium College (Autonomous) Dean of Ethics
- Auxilium College (Autonomous) Dean of Day Hostel.

Current Responsibilities:

- Mentor and tutor for II B. Sc. Mathematics.
- Auxilium College (Autonomous) Dean of Ethics
- Auxilium College (Autonomous) Dean of Day Hostel.
- Department Logbook In charge.

Membership in professional bodies:

- Auxilium College (Autonomous), Council member.
- Auxilium College (Autonomous), Alumni member.
- Auxilium College (Autonomous), Society member.

Honors & awards received:

- Best Researcher Award in the Academic Year 2023 – 2024.

No. of Online Courses Completed: 8

Served as a Resource Person/Chairperson:

1. Ethics Orientation Program for Staff and Students 2024-2025
2. Retreat for the Students 2024-2025
3. Ethics Orientation Program for Staff and Students 2025-2026
4. Retreat for the Students 2025-2026
5. Alternate Therapy using Reflexology skills.
6. Hostel Day Celebration for the students.

Programme Organized/Organizing Committee member:

1. Webinar on “Awareness on Intellectual Property Rights” (Organizing Committee Member) organized by the Committee for Research Ethics, Publication and IPR in collaboration with NIPAM on 16th September 2023.
2. Ethics Orientation Program for Staff and Students 2024-2025
3. Retreat for the Students 2024-2025.
4. Ethics Orientation Program for Staff and Students 2025-2026
5. Retreat for the Students 2025-2026
6. Alternate Therapy using Reflexology skills.

PUBLICATIONS

Publications in Journals

1. Anthoni Amali A. and J. Jesintha Rosline, “Alternate Quadra Sub - Merging Polar Fuzzy Soft Graph and its Application”, *Reliability: Theory & Applications*, ISSN 1932-2321, 2023, Vol. 18, Issue 3(74), pp. 97 – 112.
2. Anthoni Amali A. and J. Jesintha Rosline, “Oscillating Polar Fuzzy Graph(OPFG) and its Applications” *AIP Conference Proceedings* 2842, 0094-243X (P) 1551-7616 (O), 2023, pp. 1-18.
3. G. Aruna and J. Jesintha Rosline, “Prism Fuzzy Number and Its Applications”, *AIP Conference Proceedings* 2842, 0094-243X (P) 1551-7616 (O), 2023, pp.1-19.
4. Anthoni Amali A. and J. Jesintha Rosline, “Alternate Quadra Sub - Merging Polar Fuzzy Soft Graph and its Application”, *Reliability: Theory & Applications* ISSN: 1932-2321, 2023 (September 2023), Vol 18, 3(74), 97 – 112.
5. Anthoni Amali A. and J. Jesintha Rosline, “Augmentation on Alternate Quadra Submerging Polar Fuzzy Graph and its Application” *Journal of Propulsion Technology*, ISSN :(1001-4055), 2023, Vol.44, Issue 4, pp. 8029 – 8049.
6. Anthoni Amali A. and J. Jesintha Rosline, “Regularity of Alternate Quadra Submerging Polar Fuzzy Graph and its Application”, *Reliability: Theory & Applications* ISSN: 1932-2321, 2023 (March 2023), Vol 19, 1(77), 238 – 253.
7. G. Aruna and J. Jesintha Rosline, “Quadrasonic Fuzzy Matrix and its Application” *Reliability: Theory & Applications*, ISSN: 1932-2321, 2024, Vol. 19, Issue 4(80), pp. 120-131.
8. G. Aruna, J. Jesintha Rosline and Anthoni Amali A., “Exploring Quadrasonic Fuzzy Set: Applications in Assessing Stress Levels and Self – Esteem Connections”, *Reliability: Theory & Applications* ISSN: 1932-2321, 2025 (2025), Vol 20, 1(82), 700

– 714.

9. Anthoni Amali A., J. Jesintha Rosline and G. Aruna, “Alternate Quadra – Submerging Polar Fuzzy Graph and its Decision Making Analysis”, *Reliability: Theory & Applications* ISSN: 1932-2321, 2025 (2025), Vol 20, 1(82), 157 – 171.

Book Chapter Publications

1. Anthoni Amali A. and J. Jesintha Rosline, “Operations on Alternate Quadra – Submerging Polar (AQSP) Fuzzy Graphs and its Applications”, *Trends in Mathematics (Springer)*(2024), 557 – 568.
2. V. Divya, J. Jesintha Rosline and Anthoni Amali A., “Regularity of Fermatean Quadripartitioned Neutrosophic Fuzzy Graph”, *Intelligent and Fuzzy Systems (Springer)*, (July 2025) 39 - 47.

FDP’s/ Seminars/ Workshops/Webinars

1. “Workshop on Graph Theory” organized by the Department of Mathematics, Stella Maris College on 18th and 19th Dec, 2007.
2. A short term course on “Optimization Theory & Practice”, organized by the Department of Mathematics, Stella Maris College on 15th , 17th , 27th and 28th Dec, 2007.
3. “One Day National Level Workshop on LATEX” Organized by Department of Mathematics, Jeppiaar Institute of Technology on 25th March, 2015.
4. “Short Term Training Programme on Numerical Methods and Their Applications(STTP – 2016)” Organized by the Department of Mathematics, Faculty of Science and Humanities, SRM University, Kattankulathur on 4th and 5th Nov, 2016.
5. “Workshop on Applications of Mathematics in Engineering(WAME – 2019)” Organized by the Department of Mathematics, Faculty of Science and Humanities, SRM University, Kattankulathur on 2nd and 3rd March, 2019.
6. “International Conference on Integrated Knowledge Towards Enriched Society” Organized by Loyola Racine Research Institute of Mathematics and Computer Science, Loyola College, Chennai- 34. held on 22nd and 23rd January, 2020.

7. “National Conference on Teaching, Learning and Evaluation: Changes and Challenges” Organized by IOAC, Auxilium College(Autonomous), Vellore on 30th & 31st January, 2020.
8. Two Weeks FDP on “Managing Online Classes and Co-Creating MOOCS” organized by Teaching Learning Centre, Ramanujan College, University of Delhi from 20th April to 6th May, 2020.
9. One Week National Faculty Development Program and Online Training on “LATEX” organized by Sanjay Ghodawat University, Kolhapur in association with Spoken Tutorial Project, IIT – Bombay from 27th April to 2nd May, 2020.
10. One Week National Faculty Development Program “R Language” organized by PG and Research Department of Mathematics Auxilium College(Autonomous), Vellore in association with Spoken Tutorial Project, IIT – Bombay from 13th to 20th May, 2020.
11. One day Online Workshop for “Enhancing Research Communication Skills through Science Direct and Mendeley” organized by IQAC and SoE, Faculty of Education, Dayalbagh Educational Institute, Agra on 3rd May, 2020.
12. One week Faculty Development Programme on “ Open Source Tools for Research” organized by Teaching Learning Centre, Ramanujan College, University of Delhi from 8th to 14th June, 2020.
13. One week International Faculty Development Programme(online) on “Evolving Best Teaching and Learning Practices in the Pandemic Era 2020” organized by the Board of Management, Auxilium College(Autonomous), Vellore from 15th to 21st June, 2020.
14. “Basic Author Workshop Research Article Writing and Reference Management Using Mendeley” Organized by Faculty of Science, Annamalai University on 22nd June, 2020.
15. “IP Awareness/ Training Program” organized by National Intellectual Property Awareness Mission on 25th January, 2022.
16. UGC – Sponsored Live “Online Induction Programme” conducted by UGC – Human Resource Development Centre, University of Kerala, Kariavattom on 28th and 29th March, 2022.
17. Two days “In-Service Teacher Training Programme” in Mathematics held at Muthurangam Government Arts College(Autonomous), Vellore held on 05th and 06th May, 2022.

18. Libre office suite calc 6.3, Libre office suite writer 6.3 and Libre office suit Impress 6.3 conducted by spoken tutorial project IIT ,Bombay (FDP) from 26th May, 2022 to 10th June, 2022 .
19. FDP on “Microsoft Power BI Data Analyst Associate” organized by ICT Academy on 20th June, 2022 to 24th June, 2022 at Auxilium College, Vellore -6.
20. Webinar on “Application of mathematics” conducted by Department of mathematics Auxilium College, Vellore on 17th September 2022
21. Two days Faculty Development Program on “E - Content Development Hand on training session on OBS and OPS Software” organized by the Department of Communication Media, Auxilium College(Autonomous), Vellore- 6 on 15th and 17th October, 2022.
22. Special Guest Lecture in “State Level Seminar” on the topic “Evaluation of Mathematics to Fuzzy Mathematics” organized by PG and Research Department of Mathematics, C. Abdul Hakeem College, (Autonomous), Melvisharam on 19th July, 2023.
23. One Day Workshop on “NIRF Ranking 2024” Human Resource Development Centre, Thiruvalluvar University, Sekkadu on 4th October, 2023.