

PROFILE



Name : Dr. Mrs. K. JENCY PRIYA
Designation : Assistant Professor
Department : Mathematics
Date of Birth : 03.04.1985
Date of Appointment : 17.06.2019

ACADEMIC DETAILS

S.No.	DEGREE	UNIVERSITY/INSTITUTION	YEAR OF COMPLETION
1.	B.Sc.	Nirmala College for Women,	Apr, 2005
2.	B.Ed.	Stella Matutina College for Education, Chennai.	Apr, 2006
3.	M.Sc.	J. A. College For Women, Periyakulam.	Apr, 2011
4.	SET	Mother Teresa University, Kodaikanal	Apr, 2017
5.	Ph.D	St. Joseph's College, Tiruchirappalli.	Dec, 2017

Total Experience : 6 months in Holy Cross College, Tiruchirappalli.
6 years at J.A. College, Periyakulam.

Area of Specialization/ Interest : Automata Theory

Professional Affiliation : Member of Fine Arts
Member of Discipline Committee
Department Association Member
Member of Swachh Bharat Abhiyan
Department Startup Programme Incharge
Member of Entrepreneur Cell
Member of IQAC
Member of Extension Programme
Member of Attendance
Member of Research Committee
Member of IIC

Research Publications: 26

International Publication: 16

1. **“Closure properties of Intuitionistic Fuzzy Finite Automata with Unique Membership Transitions on an Input Symbol”**. 2014, *World Congress on Computing and Communication Technologies (WCCCT 2014)*, ISBN 978-1-4799-2876-7, pp. 142-146.
2. **“Recognizability of Intuitionistic Fuzzy Finite Automata – Homomorphic Images”**. 2014 *World Congress on Computing and Communication Technologies (WCCCT 2014)*, ISBN 978-1-4799-2876-7, IEEE, 2014, pp. 66-70.
3. **“Intuitionistic Fuzzy Finite Automata with Unique Membership Transitions”**. 2014 *World Congress on Computing and Communication Technologies (WCCCT 2014)*, IEEE, 2014, pp.103-107, ISBN 978-1-4 799-2876-7.
4. **“An Intuitionistic Fuzzy Finite Automata-Homomorphism and Admissible relation”**. *International Organization of Scientific Research Journal of Mathematics (IOSR-JM)*, e-ISSN: 2278-5728, p-ISSN: 2319-765X. Vol.10, Issue 6 Ver. V (Nov-Dec.2014) 51-57.
5. **“Intuitionistic Fuzzy Automaton with Unique Membership and Unique Nonmembership Transitions”**. *International Conference on Theoretical Computer Science and Discrete Mathematics (ICTCSDM 2016)*, *Lecture Notes in Computer Science*, Vol.10398, pp. 271-280. ISSN: 0302-9743.
6. **“Intuitionistic Fuzzy Lexical Analyzer”**. *Annals of Fuzzy Mathematics and Informatics*, 11(4), 2016, pp. 589-605, ISSN: 2093-9310.
7. **“Regular properties of Fuzzy Finite State Automata with Unique Membership Transition on an Input Symbol”**. *International Journal of Fuzzy Mathematics and Systems*, 2013, 3(5), pp. 313-324, ISSN 2248-9940.
8. **“Yoga in the Christian Perspective”**. *International Journal of Research Culture Society*, 4(4): pp. 215-217, ISSN 2456-6683.
9. **“Avifaunal diversity of Thamaraikulam pond at Theni district.”***International Journal of Research Culture Society*, 4(4): pp. 276-283,ISSN 2456-6683.
10. **“Significance of yoga in ancient India.”***International Journal of Research Culture Society*, 4(5): pp. 262-264, ISSN 2456-6683.
11. **“Heavy Metal Analysis at Thamaraikulam Pond in Theni District.”***International Journal of Scientific Engineering and Applied Science (IJSEAS)*, 2020. 6(6): pp. 28-33, ISSN 2395-3470.
12. **“Effect of Tridax procumbens in treating coffee effluent for heavy metals in Jayamangalam, Theni district.”***International Journal of Ecology and Environmental Sciences*,2(3): pp. 05-12.
13. **“Shaivism and Its Pasupata Sect.”** *International Journal of Research Culture Society*, 4(6): pp. 45-48, ISSN 2456-6683.
14. **“Properties of an Intuitionistic Fuzzy Kernel and an Intuitionistic Fuzzy Subsemiautomaton”** *Notes on Intuitionistic Fuzzy Sets*, Print ISSN 1310–4926, Online ISSN 2367–8283 Vol. 23, 2017, No. 5, 112–124.

15. **“Intuitionistic Fuzzy Monoids In An Intuitionistic Fuzzy Finite Automaton With Unique Membership Transition On An Input Symbol”** *Discussiones Mathematicae General Algebra and Applications*, 42 (2022) 383–394.
16. **“Comparative Analysis in Solving FFLP using Ranking Technique relating Risk Factors to Chronic Disease”**, *Biochemical and Cellular Archives*, Vol. 25, No. 2, pp. 2071-2077, April 2025.

National Publications: 10

1. **“Ahimsa in religions especially in Jainism, a religious society of India.”** *Journal of Emerging Technologies and Innovative Research (JETIR)*, 7(5): pp.729-736, ISSN 2349-5162.
2. **“Intuitionistic Fuzzy Anti Transformation Semigroup”** *Jac Journal of Science and Humanities*, 2347- 9868, 2020, 8.
3. **“Physico-Chemical and heavy metal Analysis of Contaminated soil near coffee industry in Jayamangalam, Theni district”** *Ecology, Environment and Conservation Journal*, 0971-765X, 2021, 27.
4. **“Physico-Chemical Analysis of Contaminated soil and Effluent collected from Tannery Industries in Dindigul, India.”** *Pollution Research*, 0257-8050, 2021, 40.
5. **“Efficiencies and Growth rate of Caged feral Bird, the BlueRock Pigeon (Columba livia)”** *Ecology, Environment and Conservation Journal*, 0971-765X, 2021, 27.
6. **“Physico Chemical Analysis of Coffee Effluent Before and After Treatment with Tridax Procumbens and its Impact on the Growth of Tomato Plant Solanum Lycopersicum”** *Pollution Research*, 0257-8050, 2021, 40.
7. **“Valluvar Pottrum Manitha mambugal”** *Modern Thamizh Research*, 2321-984X, 2020, 30.
8. **“Comparative Analysis of Pseudo – Smarandache Function”** *JACJOSHAM*, 2022.
9. **“Total Colouring of Fuzzy Graphs Using Strong Alpha-Cuts”**, *Advances in Fuzzy Sets and Systems*, 0973-421X, 28(2), 2023, 77-86, June 2023.
10. **“Closure Properties of Picture Fuzzy Finite Automata”** *Indian Journal of Natural Sciences*, 0976 – 0997, 14(80), Oct , 2023.

Seminar / Conferences / Workshops Participated:

International: 18

1. International conference **“World Congress on Computing and Communication Technologies”** organized by Department of Computer Science, St. Joseph’s College, Tiruchirappalli, 27thFeb – 1st March, 2014.
2. International Conference **“31st Annual Conference of the Ramanujan Mathematical Society”**
3. organized by Department of Mathematics, National College, Tiruchirappalli, 18th – 21st June, 2016.

4. International Conference "*Theoretical Computer Science and Discrete Mathematics*" organized by Research Department of Mathematics, Kalasalingam University, Krishnankoil, 19th – 21st December, 2016.
5. International level Faculty Development Programme on "*How to write effective case Study?*" organized by Atmiya University, Rajkot, Gujarat on 2nd May, 2020.
6. International E- Conference on "*Strategies & Challenges in Higher Education during COVID -19 Lockdown Period in India with reference to the World*", organized by Government Vidarbha Institute of Science & Humanities, Amravati, Maharashtra – 444 604, from 15th -17th May, 2020.
7. International Webinar on "*Recent Research Trends in Mathematics*", organized by Department of Mathematics, D.K.M. College for Women, Sainathapuram, Vellore, 29th May, 2020.
8. International Webinar on "*Recent Trends in Applied Mathematics*" organized by Department of Mathematics, Patrician College of Arts and Science, Chennai, from 24th to 26th June, 2020.
9. International Webinar on "*Mathematical Approach of Solute Transport Modelling*" organized by KIET Group of Institutes, Ghaziabad, 27th June, 2020.
10. International Conference on "*Recent Advances in Mathematical Science and its Applications*" organized by PG and Research Department of Mathematics, Mother Teresa University, Kodaikanal, 26th – 27th August, 2021.
11. International Conference on "*Advanced Research in Mathematical Sciences (ICAMS - 2021)*", organized by Sri Manakula Vinayagar Engineering College, 24th & 25th February, 2021.
12. International Webinar on "*New Advances in Mathematical and Computational Sciences*" organized by PG and Research Department of Mathematics, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam, 22nd Oct, 2021.
13. International Webinar on "*Recent advances in pure and applied mathematics*" organized by PG and Research Department of Mathematics, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam, 27th January, 2022.
14. International Webinar on "*Ilakkiyangalil manitha maanbugal*" organized by PG Department of Tamil, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam, 29th – 30th March, 2022.
15. International Conference SAMVIT 2023 on "*Emergency Trends in Science and Technology*" organized by the Department of Sciences, St. Claret College, Bangalore, 11th August, 2023.
16. International Webinar on "*Emerging Trends in Mathematics*" organized by the PG and Research Department of Mathematics, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam on 13th September, 2023.
17. International Conference on "*Mathematical Modelling, Simulation and Nonlinear Dynamics – 2024 (ICMMSND 2024)*" organized by the Department of Mathematics, Bharathiar University, Coimbatore on 15th and 16th February, 2024.

1. State level Seminar on “*Recent Trends in Applied Mathematics*” organized by Jayaraj Annapackiam College for Women (Autonomous), Periyakulam, 11th February, 2011.
2. Rev. Dr. S. Lazar SJ endowment Seminar on “*Resources and Research*” organized by Department of Library, St. Joseph’s College, Tiruchirappalli, 15th October, 2016.
3. Webinar on “*Introduction to Graphs from Algebraic Structures*” organized by Department of Mathematics, G.T.N Arts College, Dindigul, 22nd May, 2020.

4. Online Workshop on “*Mathematical Sciences for CSIR-UGC NET Aspirants*” organized by Department of Mathematics, St. Mary’s College (Autonomous), Thoothukkudi, from 19th-23rd May, 2020.
5. Webinar on “*Introduction to Latex*” organized by IQAC and PG Department of Mathematics, Loganatha Narayanasamy Government College (Autonomous), Thirunelveli, 28th May, 2020.
6. Webinar on “*Mathematical Modeling of Infectious diseases: application to COVID19*” organized by Department of Mathematics, Patrician College of Arts and Science, Chennai on 27th May, 2020.
7. Webinar on “*CSIR Problems solving techniques in Algebra and Analysis*” organized by Department of Mathematics (Shift II), (Shift II), St. Joseph’s College, Tiruchirappalli, 17th & 18th of June, 2020.
8. State Level Webinar on “*Kanakkum Kathaipesuthae*”, organized by the Mathematical club of Annamal College of Education for Women, Thoothukudi-3, 1st June, 2020.
9. Webinar on “*Free Statistical Tool for Research Data and Research Publication with Special Reference to Citation, Impact Factor and h Index*” organized by The Library, J.A. College, Periyakulam on 1st & 2nd June, 2020.
10. Webinar on “*Tactics to Crack CSIR-NET –JRF Exams in Mathematics*” organized by Department of Mathematics, E.M.G. Yadava Women’s College, Thirupalai, 19th June, 2020.
11. Webinar on “*Numerical Methods for Heat Transfer Problems*” organized by Department of Mathematics, School of Science and Humanities, Kongu Engineering College, Perundurai, Erode, 26th June, 2020.
12. Webinar on “*Designing Finite State Automata*” organized by PG and Research Department of Mathematics, Holy Cross College (Autonomous), Tiruchirappalli, 1st August, 2020.
13. Webinar on “*Introduction to Automata Theory*” organized by Department of Mathematics, Idhaya College for Women, Sarugani, 29th July, 2020.
14. State Level Webinar on “*Applications of Various divisions of Mathematics in Graph Theory*” organized by PG and Research Department of Mathematics, Holy Cross College (Autonomous), Tiruchirappalli, 25th July, 2020.
15. State level Webinar on “*Emerging trends in algebra*” organized by PG and Research Department of Mathematics, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam, 17th March, 2021.
16. State level Webinar on “*Fit India*” organized by NSS, NCC & Physical Education, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam, 15th September, 2021.
17. State level Webinar on “*Read & Lead*” organized by the Library, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam, 29th September, 2021.
18. State level webinar on “*Selfcare techniques in the pandemic to prevent death rate*”

organized by JMJ College for Women (Autonomous), Tenali, Guntur, Andhra Pradesh, 2nd June, 2021.

Workshop/FDP/Training Programme:

1. Two day online workshop on “*Mental health and psychosocial consideration during Lockdown*”, organized by St. Mary’s College (Autonomous), Thoothukudi on 13th & 14th May, 2020.
2. Webinar on “*Guidelines for Writing a Research Paper*”, organized by Arasu Engineering College, Chennai Main Road, Kumbakonam, 22nd May, 2020.
3. Short Term Training Program on “*MATLAB*” based Teaching – Learning in Mathematics, Science & Technology” organized by Department of Electronics Engineering, Ramrao Adik Institute of Technology, Nerul, Navi Mumbai in collaboration with Design Tech Systems Pvt., Ltd. Mumbai from 18th May to 22nd May, 2020.
4. Online FDP on “*Research Methods and Writing Skills in Mathematical Sciences*” organized by, Bon Secours College for Women, Thanjavur, 25th -27th May, 2020.
5. Online Workshop on “*Mathematical Analysis (MATANA 2020)*” organized by PG and Research Department of Mathematics, Loyola College (Autonomous), Chennai from 8th to 13th June, 2020.
6. Online FDP on “*Effective Strategy for Teaching Mathematics*” organized by Department of Mathematics, Arputha College of Arts and Science for Women, Vamban, Pudukkottai on 25th June, 2020.
7. 4-week Induction / Orientation Programme for “*Faculty in Universities / Colleges/Institutes of Higher Education*” organized by Teaching Learning Centre, Ramanujan College, University of Delhi Sponsored by Ministry of Human Resource Development, Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching from 4th June to 1st July, 2020.
8. National level FDP on “*Quality enhancement initiative through innovative practices*” organized by IQAC, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam, 5th May, 2021.
9. National Workshop on “*Online Learning Self Assessment*” organized by North-Eastern Hill University (NEHU), Shillong, Meghalaya, 24th June, 2021.
10. Two week Inter-Disciplinary Refresher Course on “*Managing online Classes & Co-creating MOOC 6.0*” organized by Teaching Learning Centre, Ramanujan College, University of Delhi, 5th to 19th July, 2021.
11. FDP on “*The Nuances of Scientific Writing and Publishing*” organized by Madras Christian College, Chennai, 11th -19th July, 2022.
12. National Level Webinar on “*Emerging Trends in Application of Mathematics*” organized by PG and Research Department of Mathematics, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam, 27th Oct, 2022.

13. 9th FIP UGC, HRDC organized by Pondicherry University, 3rd November – 2nd December, 2022.
14. FDP for Young Faculty of Colleges and Universities organized by St. Christopher's College of Education, Chennai, 11th – 15th April, 2023.
15. Summer Internship Programme on "Mathematics and its Applications" organized by PG and Research Department of Mathematics, Sacred Heart College, Tirupattur, 1st – 10th June, 2023.
16. National level Online Workshop on "Chat GPT for Academics" organized by Department of Computer Science, St. Joseph's College, Tiruchirappalli, 21st June, 2023.
17. National Level Online Faculty Development Programme on Outcome Based Education & Essential AI Tools for Teachers organized by the IQAC of Carmel College (Autonomous), Mala in association with The Kerala State Higher Education Council (KSHEC) from 10.08.2023 – 18.08.2023.
18. Virtual Faculty Development Programme on "NAAC Accreditation Framework and Documentation" organized by IQAC, K. S. R College of Education, Tiruchengode, Namakkal from 14.12.2023 to 21.12.2023.
19. National Workshop on "Exploring Leadership Potential" organized by Christ (Deemed to be University), Kengeri Campus, Bengaluru, India supported by United Board from 21.11.2024 to 23.11.2024.
20. National Level Interdisciplinary Faculty Development Programme (online) on "Mathematical Applications: Computational AI, Neural Networks and Vedic Mathematics", organized by Sri Venkateswara College of Engineering & Technology (Autonomous), RVS Nagar, Chittoor, Andhra Pradesh in association with A.C.T Academy, Palakkad, Kerala from 11th to 17th March, 2025.
21. Faculty Development Programme on "Empowering Faculty through Whole Person Education: Fostering Teaching Skills, Wellness and Women's Leadership" funded by the United Board and organized by St. Christopher's College of Education at Jayaraj Annapackiam College for Women (Autonomous), Periyakulam from 10.04.2025 to 12.04.2025.
22. One Day National Conference on "Innovative Approaches to Quality Assurance in Higher Education for Sustainable Futures" organized by the Internal Quality Assurance Cell, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam on 09.01.2025.
23. National Level Interdisciplinary Faculty Development Programme (online) on "Mathematical Applications: Computational AI, Neural Networks and Vedic Mathematics", organized by Sri Venkateswara College of Engineering & Technology (Autonomous), RVS Nagar, Chittoor, Andhra Pradesh in association with A.C.T Academy, Palakkad, Kerala from 11th to 17th March, 2025.
24. Faculty Development Programme on "Empowering Faculty through Whole Person Education: Fostering Teaching Skills, Wellness and Women's Leadership" funded by the United Board and organized by St. Christopher's College of Education at Jayaraj

Annapackiam College for Women (Autonomous), Periyakulam from 10.04.2025 to 12.04.2025.

25. Preparation for NAAC Online Peer Team Visit” organized by IQAC Cluster Team, on 3rd May, 2025.
26. Five Day National Level online FDP on “Outcome Based Education, Binary Accreditation and usage of AI” organized by St. Mary’s Centenary Degree College, Telangana from 2nd June to 6th June, 2025.
27. Five Day International Virtual Faculty Development Programme (IVFDP) on “Harnessing Generative AI: Smart Tools for Teaching, Learning, Evaluation & Research (TLE&R)” organized by the Department of Computer Science, St. Joseph’s College, Tiruchirappalli and Globethics, South Asia Centre, Bengaluru from 07.07.2025 to 11.07.2025.
28. Seven Days National Level Faculty Development Programme (Online) on “Indian Knowledge System Integration in Curriculum & Research: Prospects and Possibilities” organized by the Research & Development Cell, Arul Anandar College (Autonomous), Madurai and A.C.T Academy, Kerala from 24.07.2025 to 31.07.2025.
29. Ten Days National Level Short Term Training Programme (STTP) on “Vedic Mathematics: Techniques and Applications” organized by the Department of Mathematics, Institutions’s Innovation Council and A.C.T Academy, Kerala from 04.08.2025 to 13.08.2025.

Conference Presentations: 5

1. **“Closure properties of Intuitionistic Fuzzy Finite Automata with Unique Membership Transitions on an Input Symbol”**. International conference “*World Congress on Computing and Communication Technologies*” organized by Department of Computer Science, St. Joseph’s College, Tiruchirappalli, 27th Feb – 1st Mar, 2014.
2. **“Intuitionistic Fuzzy Automaton with Unique Membership and Unique Nonmembership Transitions”**. *International Conference on Theoretical Computer Science and Discrete Mathematics (ICTCSDM 2016)*, International Conference “*31st Annual Conference of the Ramanujan Mathematical Society*” organized by Department of Mathematics, National College, Tiruchirappalli, 18th – 21st June, 2016.
3. **“Closure Properties of Picture Fuzzy Finite Automata”**, International Conference SAMVIT 2023 on “Emergency Trends in Science and Technology” organized by the Department of Sciences, St. Clare College, Bangalore, 11th August, 2023.

4. **“Analysis and Effects of Contaminated Soil near Coffee and Tannery Industries using Single link Technique”** in the “International Conference on Mathematical Modelling, Simulation and Nonlinear Dynamics – 2024 (ICMMSND 2024)” organized by the Department of Mathematics, Bharathiar University, Coimbatore on 15th and 16th February, 2024.
5. **“Shifting Paradigm of Education 5.0: Quality Assurance, Enhancement and Sustenance in Higher Education Institutions”** in a One Day National Conference on “Innovative Approaches to Quality Assurance in Higher Education for Sustainable Futures” organized by the Internal Quality Assurance Cell, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam on 8th January, 2025.

CONTACT DETAILS:

Present Address	: 9A, 2 nd Street, Bharathi Nagar, Thenkarai, Periyakulam, Theni Dt - 625 601.
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Mobile	: 9940819797
E-mail Id	: jpriyamat@annejac.ac.in jencypriya9@gmail.com