



## **PROFILE**

Name : Dr. Mrs. K. JENCY PRIYA  
Designation : Assistant Professor  
Department : Mathematics  
Date of Birth : 03.04.1985  
Date of Appointment : 17.06.2019  
Date of Retirement : 30.04.2045

## **ACADEMIC DETAILS**

**Total Experience:** 6 months in Holy Cross College, Tiruchirappalli.  
5 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

Department Startup Programme Incharge

Member of Entrepreneur Cell

Member of IQAC

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

### Research Publications:

#### International Publication : 9

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. **“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.
3. **“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.
4. **“Intuitionistic Fuzzy Lexical Analyzer”**. *Annals of Fuzzy Mathematics and Informatics*, 11(4), 2016, pp. 589-605, ISSN: 2093-9310.
5. **“Intuitionistic Fuzzy Finite Automata with Unique Membership Transitions”**. *2014 World Congress on Computing and Communication Technologies (WCCCT 2014)*, IEEE, 2014, 54, pp.103-107, ISBN 978-1-4 799-2876-7.
6. **“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.
7. **“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.

8. **“Valluvar Pottrum Manitha mambugal”** Modern Thamizh Research,2321-984X,30.
9. **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.

**National Publications : 16**

1. **“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.
2. **“Yoga in the Christian Perspective”**. *International Journal of Research Culture Society*, 4(4): pp. 215-217, ISSN 2456-6683.
3. **“Avifaunal diversity of Thamaraikulam pond at Theni district.”***International Journal of Research Culture Society*, 4(4): pp. 276-283,ISSN 2456-6683.
4. **“ Significance of yoga in ancient India.”***International Journal of Research Culture Society*, 4(5): pp. 262-264, ISSN 2456-6683.
5. **“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.
6. **“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.
7. **“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.
8. **“Shaivism and Its Pasupata Sect.”** *International Journal of Research Culture Society*, 4(6): pp. 45-48, ISSN 2456-6683.
9. **“Intuitionistic Fuzzy Anti Transformation Semigroup”** *Jac Journal of Science and Humanities*,2347- 9868,2020,8.

10. **“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.
11. **“Physico-Chemical Analysis of Contaminated soil and Effluent collected from Tannery Industries in Dindigul, India.”** *Pollution Research*, 0257-8050, 2021, 40.
12. **“Efficiencies and Growth rate of Caged feral Bird, the BlueRock Pigeon (Columba livia)”** *Ecology, Environment and Conservation Journal*, 0971-765X,2021,27.
13. **“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.
14. **“Comparative Analysis of Pseudo – Smarandache Function”** JACJOSHAM,
15. **“Closure Properties of Picture Fuzzy Finite Automata”** Indian Journal of Natural Sciences, 0976 – 0997, 14(80). Oct ,2023.
16. **“Total Colouring Of Fuzzy Graphs Using Strong A-Cuts”**, Advances in Fuzzy Sets and Systems, 0973-421X, 28(2), 2023, 77-86.

#### **Seminar / Conferences / Workshops Participated:**

- State level Seminar on *“Recent Trends in Applied Mathematics”* organized by Jayaraj Annappackiam College for Women (Autonomous), Periyakulam, 11<sup>th</sup> February, 2011
- National Conference on *“Mathematical Sciences and Applications (NCMSA)”* organized by St. Joseph’s College, Tiruchirappalli, 4<sup>th</sup> - 5<sup>th</sup> March 2014
- National Conference on *“Discrete Mathematics (NCDM)”* organized by Department of Mathematics, St. Joseph’s College, Tiruchirappalli, 9<sup>th</sup> – 10<sup>th</sup> January, 2015
- National Conference on *“Advancements in Mathematical Science (NCAMS)”* organized by Department of Mathematics, St. Joseph’s College, Tiruchirappalli, 7<sup>th</sup> – 8<sup>th</sup> January, 2016.
- Rev. Dr. S. Lazar SJ endowment Seminar on *“Resources and Research”* organized by Department of Library, St. Joseph’s College, Tiruchirappalli, 15<sup>th</sup> October, 2016
- International conference *“World Congress on Computing and Communication Technologies”* organized by Department of Computer Science, St. Joseph’s College, Tiruchirappalli, 27<sup>th</sup> Feb – 1<sup>st</sup> Mar, 2014
- International Conference *“31st Annual Conference of the Ramanujan Mathematical Society”* organized by Department of Mathematics, National College, Tiruchirappalli, 18<sup>th</sup> – 21<sup>st</sup> June, 2016.

- National Conference “*Applications of Mathematics – Recent Trends (4NCAM -RT)*” organized by Department of Mathematics, St. Joseph’s College, Tiruchirappalli, 15<sup>th</sup>-16<sup>th</sup> Dec, 2016.
- International Conference “*Theoretical Computer Science and Discrete Mathematics*” organized by Research Department of Mathematics, Kalasalingam University, Krishnankoil, 19<sup>th</sup> – 21<sup>st</sup> Dec, 2016.
- National Seminar on “*Application of Mathematics in Real Life*”, organized by PG and Research Department of Mathematics, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam, 17<sup>th</sup> Dec, 2019.
- International level Faculty Development Programme on “*How to write effective case Study?*” organized by Atmiya University, Rajkot, Gujarat on 2<sup>nd</sup> May, 2020.
- Two day online workshop on “*Mental health and psychosocial consideration during Lockdown*”, organized by St. Mary’s College (Autonomous), Thoothukudi on 13<sup>th</sup>& 14<sup>th</sup> May, 2020.
- 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 15<sup>th</sup> -17<sup>th</sup> May, 2020.
- Webinar on “*Guidelines for Writing a Research Paper*”, organized by Arasu Engineering College, Chennai Main Road, Kumbakonam, 22<sup>nd</sup> May, 2020.
- 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 18<sup>th</sup> May to 22<sup>nd</sup> May, 2020.
- Webinar on “*Introduction to Graphs from Algebraic Structures*” organized by Department of Mathematics, G.T.N Arts College, Dindigul, 22<sup>nd</sup> May, 2020.
- Online Workshop on “*Mathematical Sciences for CSIR-UGC NET Aspirants*” organized by Department of Mathematics, St. Mary’s College (Autonomous), Thoothukkudi, from 19<sup>th</sup>- 23<sup>rd</sup> May, 2020.
- Webinar on “*Introduction to Latex*” organized by IQAC and PG Department of Mathematics, Loganatha Narayanasamy Government College (Autonomous), Thirunelveli, 28<sup>th</sup> May, 2020.
- National Webinar on “*Outcome Based Education*” organized by IQAC, JA College, Periyakulam from 22<sup>nd</sup> May to 29<sup>th</sup> May, 2020.
- Webinar on “*Mathematical Modeling of Infectious diseases: application to COVID19*” organized by Department of Mathematics, Patrician College of Arts and Science, Chennai on 27<sup>th</sup> May, 2020.
- International Webinar on “*Recent Research Trends in Mathematics*”, organized by Department of Mathematics, D.K.M. College for Women, Sainathapuram, Vellore, 29<sup>th</sup> May, 2020.

- Online FDP on “*Research Methods and Writing Skills in Mathematical Sciences*” organized by, Bon Secours College for Women, Thanjavur, 25<sup>th</sup> -27<sup>th</sup> May, 2020.
- Webinar on “*CSIR Problems solving techniques in Algebra and Analysis*” organized by Department of Mathematics (Shift II), (Shift II), St. Joseph’s College, Tiruchirappalli, 17<sup>th</sup>&18<sup>th</sup> of June, 2020.
- State Level Webinar on “*Kanakkum Kathaipesuthae*”,organized by the Mathematical club of Annamal College of Education for Women, Thoothukudi-3, 1<sup>st</sup> June, 2020.
- National Webinar on “*Impact of COVID-19 in Service Sector: Strategies to Overcome the Challenges*” organized by J.A. College, Periyakulam in association with Auxillium College, Vellore, 1<sup>st</sup>& 2<sup>nd</sup> June, 2020.
- National Webinar on “*Fuzzy Set theory and Applications*” organized by Department of Mathematics (Shift II) in association with IQAC, Patrician College of Arts and Science, Chennai, 29<sup>th</sup> &30<sup>th</sup> May, 2020.
- **இணையவழிதேசியகருத்தரங்கு** -  
**"திருக்குறள்காட்டும்வாழ்வியல்நெறிகள்"**organized by Department of Tamil, J. A. College, Periyakulam on 9<sup>th</sup> June, 2020.
- Online Workshop on “*Mathematical Analysis (MATANA 2020)*” organized by PG and Research Department of Mathematics, Loyola College(Autonomous), Chennai from 8<sup>th</sup> to 13<sup>th</sup> June, 2020.
- National Webinar on “*Fractals via Fixed Point Theory*” organized by PG and Research Department of Mathematics, J.A. College, Periyakulam on 3<sup>rd</sup> June, 2020.
- 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 1<sup>st</sup>&2<sup>nd</sup>June, 2020.
- Webinar on “*Tactics to Crack CSIR-NET –JRF Exams in Mathematics*” organized by Department of Mathematics, E.M.G. Yadava Women’s College, Thirupalai, 19<sup>th</sup> June, 2020.
- Webinar on “*Numerical Methods for Heat Transfer Problems*” organized by Department of Mathematics, School of Science and Humanities, Kongu Engineering College, Perundurai, Erode, 26<sup>th</sup> June, 2020.
- Online FDP on “*Effective Strategy for Teaching Mathematics*” organized by Department of Mathematics, Arputha College of Arts and Science for Women, Vamban, Pudukkottai on 25<sup>th</sup> June, 2020.
- National Level Webinar on “*On Time Scale: A survey with Analysis*” organized by PG and

Research Department of Mathematics, Cauvery College for Women (Autonomous), Tiruchirappalli, 2<sup>nd</sup> August, 2020.

- *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 4<sup>th</sup> June to 1<sup>st</sup> July, 2020.
- International Webinar on “*Recent Trends in Applied Mathematics*” organized by Department of Mathematics, Patrician College of Arts and Science, Chennai, from 24<sup>th</sup> to 26<sup>th</sup> June, 2020.
- Webinar on “*Designing Finite State Automata*” organized by PG and Research Department of Mathematics, Holy Cross College (Autonomous), Tiruchirappalli, 1<sup>st</sup> August, 2020.
- Webinar on “*Introduction to Automata Theory*” organized by Department of Mathematics, Idhaya College for Women, Sarugani, 29<sup>th</sup> July, 2020.
- International Webinar on “*Mathematical Approach of Solute Transport Modelling*” organized by KIET Group of Institutes, Ghaziabad, 27<sup>th</sup> June, 2020.
- 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, 25<sup>th</sup> July, 2020.
- International Conference on “*Recent Advances in Mathematical Science and its Applications*” organized by PG and Research Department of Mathematics, Mother Teresa University, Kodaikanal, 26<sup>th</sup> – 27<sup>th</sup> August, 2021.
- State level Webinar on “Fit India” organized by NSS, NCC & Physical Education, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam, 15<sup>th</sup> September, 2021.
- International Conference on “Advanced Research in Mathematical Sciences (icarms - 2021)”, organized by Sri Manakula Vinayagar Engineering College, 24<sup>th</sup> & 25<sup>th</sup> February, 2021.
- State level Webinar on “Read & Lead” organized by the Library, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam, 29<sup>th</sup> September, 2021.
- National level FDP on “Quality enhancement initiative through innovative practices” organized by IQAC, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam, 5<sup>th</sup> May, 2021.
- State level Webinar on “Emerging trends in algebra” organized by PG and Research

Department of Mathematics, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam, 17<sup>th</sup> March, 2021.

- National Workshop on “Online Learning Self Assessment” organized by North-Eastern Hill University (NEHU), Shillong, Meghalaya, 24<sup>th</sup> June, 2021.
- State level webinar on “Self care techniques in the pandemic to prevent death rate” organized by JMJ College for Women (Autonomous), Tenali, Guntur, Andhra Pradesh, 2<sup>nd</sup> June, 2021.
- 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, 5<sup>th</sup> to 19<sup>th</sup> July, 2021.
- 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, 22<sup>nd</sup> Oct, 2021.
- 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, 27<sup>th</sup> January, 2022.
- International Webinar on “Ilakkiyangalil manitha maanbugal” organized by PG Department of Tamil, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam, 29<sup>th</sup> – 30<sup>th</sup> March, 2022.
- FDP on “The Nuances of Scientific Writing and Publishing” organized by Madras Christian College, Chennai, 11<sup>th</sup> -19<sup>th</sup> July, 2022.
- 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, 27<sup>th</sup> Oct, 2022.
- 9<sup>th</sup> FIP UGC, HRDC organized by Pondicherry University, 3<sup>rd</sup> November – 2<sup>nd</sup> December, 2022.
- FDP for Young Faculty of Colleges and Universities organized by St.Christopher’s College of Education, Chennai, 11<sup>th</sup> – 15<sup>th</sup> April, 2023.
- Summer Internship Programme on “Mathematics and its Applications” organized by Pg and Research Department of Mathematics, Sacred Heart College, Tirupattur, 1<sup>st</sup> – 10<sup>th</sup> June, 2023.
- National level Online Workshop on “Chat GPT for Academics” organized by Department of Computer Science, St. Joseph’s College, Tiruchirappalli, 21<sup>st</sup> June, 2023.



- International Conference SAMVIT 2023 “on “Emergency Trends in Science and Technology” organized by the Department of Sciences, St. Claret College, Bangalore, 11<sup>th</sup> August, 2023.
- International Webinar on “Emerging Trends in Mathematics” organized by the PG and Research Department of Mathematics on 13<sup>th</sup> September, 2023.
- 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.
- 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.
- International Conference on Mathematical Modelling, Simulation and Nonlinear Dynamics – 2024 (ICMMSND 2024)” organized by the Department of Mathematics, Bharathiar University, Coimbatore on 15<sup>th</sup> and 16<sup>th</sup> February, 2024.

#### **CONTACT DETAILS:**

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