

PROFILE



Name : **Mrs. P. Raja Pushpam**
Designation : Assistant Professor
Department : Mathematics
Date of Birth : 11.06.1989
Date of Appointment : 16.06.2017
Date of Retirement : 30.06.2049

ACADEMIC DETAILS

Total Experience: 4 years 6 months at TKS College of Arts and Science,
Theni (26.06.2012- 03.12.2016)
6 months at J.A. College, Periyakulam (05.12.2016 – 15.06.2017) - S.F.
8 years 2 months at J.A. College, Periyakulam (16.06.2017-Till Date)

Area of Specialization / Interest: Fuzzy Graph

Professional Affiliation: Member of Fine Arts - 3 years (2017 - 2019)
Member of IQAC - 3 years (2020 -2023)
Member of Discipline Committee (2017-2019)
Member of Minority Cell – 4 years (2018 - 2020 and 2022-2024)
Member of YRC – 1 year (2022-2023)
Member of Campus Ministry- 1 year (2020-2021)
Member of Consumer Club – 1 year (2023-2024)
Co-Ordinator of Consumer Club – 1 year (2024-2025)
Member of CD&DC– 1 year (2024-2025)
Member of Physical Education (2017-2018, 2023-2024)
Member of JACSAFA

EDUCATIONAL QUALIFICATION:

Degree	University/Institution	Year of Completion
B.Sc.	Jayaraj Annapackiam College for Women(Autonomous), Periyakulam.	2009
M.Sc.	Jayaraj Annapackiam College for Women(Autonomous), Periyakulam.	2011
B.Ed.	Women's University College of Education, Mother Teresa women'sUniversity, Kodaikanal.	2012
M.Phil.	MKU of Evening College, Periyakulam Madurai Kamaraj University	2015
SET	Mother Teresa women's University, Kodaikanal.	2016
Ph.D.	Madurai Kamaraj University, Madurai	Pursuing

Paper Publication:

International Publication:

- **Solving Assignment Problem by using Trapezoidal Neutrosophic Number** in the American International Journal of Research in Science, Technology Engineering & Mathematics, ISSN(Print):2328-3491, ISSN(Online): 2328-3580, ISSN(CD-ROM): 2328-3629 Feb 2019, PP No:126-129, Impact Factor: 5.01, UGC(Approved) Journal No:44994.
- **Valluvar Pottrum Manitha mambugal** Modern Thamizh Research,2321- 984X,30.
- **Closure Properties of Picture Fuzzy Finite Automata** Indian Journal of Natural Sciences, 0976 – 0997, 14(80). Oct ,2023.

National Publication:

- **Comparative Analysis of Pseudo – Smarandache Function** JACJOSHAM.
- **Total Colouring of Fuzzy Graphs Using Strong α -Cuts**, Advances in Fuzzy Sets and Systems, 0973-421X, 28(2), 2023, 77-86.

Seminar/Conferences/Workshops participated:

- National seminar on “*Topological Graph Theory*” at Jayaraj Annapackiam College for Women (Autonomous), Periyakulam on 19th December, 2016.

- National Seminar on “*Recent Trends in Applied Mathematics*” organized by Research Centre and PG Department of Mathematics at JayarajAnnapackiam Collegefor Women(Autonomous), Periyakulam on 13th December, 2017.
- Training on “*Tuning Young Faculty Towards Effective Teaching*” organized by St. Christopher’s College of Education, Chennai funded by United Board for Christian Higher Education in Asia on 23rd - 27th January, 2018.
- International Conference on “*Emerging Trends in Mathematical Sciences and Technology*” (ICETMST 2018) organized by Research Centre & PG Department of Mathematics, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam, on 20th and 21st, December 2018.
- Two days workshop on “*Fuzzy Set Theory and its Applications*” organized by Research Centre & PG Department of Mathematics, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam, on 27th and 28th, February 2019.
- National Seminar on “*Application of Mathematics in Real Life*” organized by Jayaraj Annapackiam College for Women (Autonomous), Periyakulam on 17th December,2019.
- Online Faculty Development Programme on “*Effective usage of ICT Tools for E-Content Preparation*” organized by Department of Computer Science, J.A. College, Periyakulam from 27th April to 2nd May 2020.
- Five days online course on “*Emerging Trends in Entrepreneurship Development*” organized by Department of Commerce & Commerce (C.A.) AVS College of Arts & Science, Salem on 13th to 17th April 2020.
- Two days online course on “*Aptitude & Logical Reasoning*” organized by Department of Mathematics AVS College of Arts & Science, Salem on 17th to 18th April 2020 .
- Two days Online Course on “*Arithmetic Ability*” organized by Department of Mathematics, Rajapalayam Rajus’ College, Rajapalayam from 23rd and 24th, April 2020.
- Workshop on “*Basics of Documentation using Latex*” organized by Department of Mathematics, Stella Maris College (Autonomous), Chennai, 24, 25, 29 & 30 April 2020.
- Two days e-Lecture on “*Recent trends in computer technology*” organized by P.G. and Research Department of Computer Science, Department of Computer Applications and Information Technology organized by J.J College of Arts and Science Autonomous), Pudhukkotai, 27th - 28th April, 2020.
- Webinar on “*Applications of Fourier Series And Laplace Equation*” organized by PG and Department of Mathematics, Kaamadhenu Arts and Science College, Sathyamangalam, on 30th

April, 2020.

- Online Faculty Development Programme on *“Effective usage of ICT Tools for E- Content Preparation”* organized by Department of Computer Science, J.A. College, Periyakulam from 27th April - 2nd May 2020.
- Faculty Development Programme on *“How to write effective case study ?”* organized by Atmiya University, Rajkot, Gujarat 2nd May 2020.
- Online Faculty Development Programme on *“Digital Tools for Smart Classrooms in Higher Education”* organized by Department of Computer Science, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam on 6th - 7th May 2020
- Online Panel Discussion on *“Impression of COVID - 1 : From Layman to Business man”* organized by Department of Management Studies , V.V. Vanniaperumal College for Women, Virudhunagar on 9th May 2020.
- Online Faculty Development Programme on *“Effective Usage of ICT Tools for Smart Teaching”*, organized by Jayaraj Annapackiam College for Women (Autonomous), Periyakulam from 9th - 14th May 2020.
- 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, India, 15th -17th May 2020.
- Webinar on *“Introduction to MATLAB”* organized by Department of Mathematics, Alagappa University, Karaikudi, 16th May 2020.
- Webinar on *“History of covid 19 Pandemic”* organized by PG & Research Centre of History, Jayaraj Annapackiam College for Women (Autonomous Periyakulam 22nd May 2020.
- Webinar on *“Guidelines for writing a Research Paper”* organized by Research Committee, Arasu Engineering College, Kumbakonam 22nd 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 18th May to 22nd May 2020.
- Webinar on *“LOGISTICS BUSINESS & TOURISM INDUSTRY- PRE & POST COVID-19”* organized by Department of Logistics Management & Department of Tourism & Hotel Management, Alagappa University, Karaikudi on 19th and 22nd May 2020 .
- Webinar on *“A Glimpse of MATLAB”* organized by Department of Physics, KPR Institute of Engineering and Technology, on 27th May 2020.

- Webinar on “*Outcome Based Education*” organized by IQAC, JA College, Periyakulam 22nd May - 29th May 2020.
- Two Days National Webinar on “*FUZZY SET THEORY AND APPLICATIONS*” organized by Department of Mathematics (Shift – II) In Association With Internal Quality Assurance Cell ,Patrician College of Arts and Science, Chennai 29th to 30th May, 2020 .
- Webinar on “*SEMI GRAPHS AND VIRUS GRAPHS*”, organized by PG and Research Department of Mathematics, Cauvery College for women, Trichy 31st May 2020.
- Webinar on Fractals via Fixed Point Theory organized by PG & Research Department of Mathematics, J. A. College, Periyakulam on 3rd June, 2020.
- Webinar on *Statistics for Data Analysis* organized by Department of Mathematics, KPR Institute of Engineering and Technology, Coimbatore on 19th June, 2020.
- Webinar on *Linear Programming Problems: An Introduction and Application* organized by Department of Mathematics, Sri Ramakrishna Institute of Engineering and Technology, Coimbatore on 20th June, 2020.
- Webinar on *Numerical Methods for Heat Transfer Problems* organized by Department of Mathematics, School of Science and Humanities, Kongu Engineering College, Perundurai on 26th June 2020.
- 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.
- Webinar on *Catholic College Online Youth Fest 2021* organized by St. Joseph’s College, Trichirappalli in collaboration with the Xavier Board of Higher Education in India, on 22nd - 24th January, 2021.
- International Conference on *Advanced Research in Mathematical Sciences-2021 (ICARMS -2021)* organized by Sri Manakula Vinayagar Engineering College, Paducherry on 24th & 25th February, 2021.
- Webinar on *Recent Trends in Graph Theory* organized by Jayaraj Annapackiam College for Women (Autonomous) Periyakulam on 16th March, 2021.
- Webinar on *Emerging Trends in Algebra* organized by Jayaraj Annapackiam College for Women (Autonomous), Periyakulam on 17th March, 2021.
- Faculty Development *Programme on Quality Enhancement Initiative Through Innovative Practices* organized by IQAC, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam on 3rd May, 2021.

- One Week Online Faculty Development Program *on LaTeX* organized by Auxilium College of Arts and Science for Women, Regunathapuram, Pudukottai(Dt), on 7th June, 2021.
- “*Newfangled Avenues of Applied Mathematics on Symposium*” Madurai Sivakasi Nadars Pioneer Meenakshi Women’s College, Poovanthi, 11th August 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, 22nd October, 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, 27th January, 2022.
- International Webinar on “Ilakkiyangalil manitha maanbugal” organized by PG Department of Tamil, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam, 29th – 30th March, 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, 27th October, 2022.
- 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.
- International Webinar on “Emerging Trends in Mathematics” organized by the PG and Research Department of Mathematics on 13th September, 2023.
- International Webinar on “Mathematics in Smart Agriculture and Food Security” organized by the PG and Research Department of Mathematics, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam on 11th December, 2024.
- 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 9th January, 2025.
- 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.
- 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.

- 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.
- Indian Knowledge System Based 10 Days National Level Short Term Training Programme (STTP) on “VEDIC MATHEMATICS : TECHNIQUES AND APPLICATIONS” from 04.08.2025 to 14.08.2025 organized by PG and Research Department of Mathematics, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam in collaboration with A.C.T Academy, Kerala.

Resource Person:

- Resource Person for One day Seminar on NET/SET Coaching on “Reasoning and Logical Reasoning” Conducted by Minority Cell, Jayaraj Annapackiam College for Women, Periyakulam on 11th February 2017.
- Resource Person in the CRASH COURSE ON CRACKING UGC-NET/JRF EXAMINATION, EXCLUSIVE FOCUS ON PAPER I conducted by NET/SET coaching wing, Jayaraj Annapackiam College for Women, Periyakulam on 28th and 29th September 2019.

Orientation Programme:

- The Induction Programme offered by Teaching Learning Centre, Ramanujan College, University of Delhi under the aegis of MHRD from 26th June to 24th July, 2020.

Paper Presentation:

- “Fuzzy Coloring of Graphs” in the International Conference on Advanced Research in Mathematical Sciences-2021(ICARMS -2021), organised by the Department of Mathematics, Sri Manakula Vinayagar Engineering College on 24th & 25th February, 2021.
- “Closure Properties of Picture Fuzzy Finite Automata” in the International Conference on Advanced Research in Mathematical Sciences-2021(ICARMS -2021), organised by the Department of Mathematics, Sri Manakula Vinayagar Engineering College on 24th & 25th February, 2021.
- “Prime Cordial Labeling in Platonic Solids: A Graph-Theoretic Approach” in International Conference on “Recent Trends in Mathematics and Computer Science”, organized by the Department of Mathematics and Computer Science, Auxilium College of Arts and Science for Women, Regunathapuram from 09.10.2025 to 11.10.2025.

Book Publication:

- “UGC NET/SET General Paper Answer with Explanations”, ISBN No. 978-81-19-10606-6.
- “Consumer Education”, published by Vasantha Pathippagam, Chennai, ISBN:978-93-6274-555-2 on June, 2024.

- “Office Automation and ICT Tools” published by Vasantha Pathippagam, Chennai, ISBN: 978-93-6415-374-4 on June, 2025.
- “Office Fundamentals” published by Vasantha Pathippagam, Chennai, ISBN: 978-93-6415-613-4 on June, 2025.

Details of Seminars/ Workshops/ Training Programmes/ Lectures/ Talk organised

Title of the Programme	Institution/Venue	Year
JACMAT FEST	J.A. College, Periyakulam	16 th Feb. 2018
Alumni Association	J.A. College, Periyakulam	22 nd Nov. 2021
Webinar on Recent Trends in Graph Theory	J.A. College, Periyakulam	16.03.2021
Crash course on NET/SET for M.Phil. M.Sc., and Alumnae of Department of Mathematics	J.A. College, Periyakulam	28 th Feb, 2022
TNPSC Coaching Wing of SC/ST Minority Cell – How to crack TNPSC Group Exams	J.A. College, Periyakulam	17 th Feb , 2023
International Webinar on “Emerging Trends in Mathematics”	J.A. College, Periyakulam	13 th September, 2023
JACMAT FEST	J.A. College, Periyakulam	27 th September, 2023
Workshop on “Unlocking Success - NET/SET Exam Mastery”		29 th September, 2023
TNPSC Coaching Wing of SC/ST Minority Cell -Mastering Competitive Exams: A winning Strategy	J.A. College, Periyakulam	29 th September, 2023
Minority Cell of JAC - "How to Pass the TNPSC Group IV Examination”	J.A. College, Periyakulam	1 st April 2024
One-month Free Online Live Coaching Classes organized by the Minority Cell TNPSC Coaching, JAC in collaboration with Thinnai Manitha Valla Membattu Arakkattallai, Theni	J.A. College, Periyakulam	2 nd and 13 th May, 2024.
International Webinar on	J.A. College, Periyakulam	11 th December, 2024

“Mathematics in Smart Agriculture and Food Security”		
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CONTACT DETAILS:

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Thamaraikulam, Periyakulam -625601

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Thamaraikulam, Periyakulam -625601

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