

## **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 and 1/2 years at TKS College of Arts and Science, Theni  
7 and 1/2 years at J.A. College, Periyakulam.

**Area of Specialization/ Interest:** Fuzzy Graph

**Professional Affiliation** : Member of Fine Arts  
Member of IQAC  
Member of Discipline Committee  
Member of Minority Cell  
Member of YRC(1 year)  
Member of Campus Ministry (1 year)  
Member of Consumer Club  
Member of Physical Education

<b>Degree</b>	<b>University/Institution</b>	<b>Year of Completion</b>
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's University, 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 Feb2019,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  $\alpha$ -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 19<sup>th</sup> December, 2016.
- National Seminar on “**Recent Trends in Applied Mathematics**” organized by Research Centre and PG Department of Mathematics at JayarajAnnapackiam College for Women(Autonomous), Periyakulam on 13<sup>th</sup> 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 23<sup>rd</sup> - 27<sup>th</sup> 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 20<sup>th</sup> and 21<sup>st</sup>, December 2018.

- Two days workshop on “**Fuzzy Set Theory and its Applications**” organized by Research Centre & PG Department of Mathematics, JayarajAnnapackiam College For Women(Autonomous), Periyakulam, on 27<sup>th</sup> and 28<sup>th</sup>, February 2019.
- National Seminar on “*Application of Mathematics in Real Life*” organized by Jayaraj Annapackiam College for Women (Autonomous), Periyakulam on 17<sup>th</sup> 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 27<sup>th</sup> April to 2<sup>nd</sup> 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 13<sup>th</sup> to 17<sup>th</sup> April 2020.
- Two days online course on “*Aptitude & Logical Reasoning*” organized by Department of Mathematics AVS College of Arts & Science, Salem on 17<sup>th</sup> to 18<sup>th</sup> April 2020 .
- Two days Online Course on “Arithmetic Ability” organized by Department of Mathematics, Rajapalayam Rajus’ College, Rajapalayam from 23<sup>rd</sup> and 24<sup>th</sup>, 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, 27<sup>th</sup> - 28<sup>th</sup> 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 30<sup>th</sup> 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 27<sup>th</sup> April - 2<sup>nd</sup> May 2020.
- Faculty Development Programme on ”How to write effective case study ?” organized by Atmiya University, Rajkot, Gujarat 2<sup>nd</sup> 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 6<sup>th</sup> - 7<sup>th</sup> 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 9<sup>th</sup> 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 9<sup>th</sup> - 14<sup>th</sup> 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, 15<sup>th</sup> -17<sup>th</sup> May 2020.
- Webinar on *"Introduction to MATLAB"* organized by Department of Mathematics, Alagappa University, Karaikudi, 16<sup>th</sup> May 2020.
- Webinar on *"History of covid 19 Pandemic"* organized by PG & Research Centre of History, Jayaraj Annapackiam College for Women (Autonomous Periyakulam 22<sup>nd</sup> May 2020.
- Webinar on *"Guidelines for writing a Research Paper"* organized by Research Committee, Arasu Engineering College, 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 *"LOGISTICS BUSINESS & TOURISM INDUSTRY- PRE & POST COVID-19"* organized by Department of Logistics Management & Department of Tourism & Hotel Management, Alagappa University, Karaikudi on 19<sup>th</sup> and 22<sup>nd</sup> May 2020 .
- Webinar on *"A Glimpse of MATLAB"* organized by Department of Physics, KPR Institute of Engineering and Technology, on 27<sup>th</sup> May 2020.
- Webinar on *"Outcome Based Education"* organized by IQAC, JA College, Periyakulam 22<sup>nd</sup> May - 29<sup>th</sup> 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 29<sup>th</sup> to 30<sup>th</sup> May, 2020 .
- Webinar on *"SEMI GRAPHS AND VIRUS GRAPHS"*, organized by PG and Research

Department of Mathematics, Cauvery College for women, Trichy 31<sup>st</sup> May 2020.

- Webinar on Fractals via Fixed Point Theory organized by PG & Research Department of Mathematics, J. A. College, Periyakulam on 3<sup>rd</sup> June, 2020.
- Webinar on Statistics for Data Analysis organized by Department of Mathematics, KPR Institute of Engineering and Technology, Coimbatore on 19<sup>th</sup> 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 20<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 on 26<sup>th</sup> June 2020.
- Webinar 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 22<sup>nd</sup> - 24<sup>th</sup> January, 2021.
- International Conference on Advanced Research in Mathematical Sciences-2021 (ICARMS - 2021) organized by Sri Manakula Vinayagar Engineering College, Paducherry on 24<sup>th</sup> & 25<sup>th</sup> February, 2021.
- Webinar on Recent Trends in Graph Theory organized by Jayaraj Annapackiam College for Women (Autonomous) Periyakulam on 16<sup>th</sup> March, 2021
- Webinar on Emerging Trends in Algebra organized by Jayaraj Annapackiam College for Women (Autonomous), Periyakulam on 17<sup>th</sup> March, 2021.
- Faculty Development Programme on Quality Enhancement Initiative Through Innovative Practices organized by IQAC, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam on 3<sup>rd</sup> May, 2021
- One Week Online Faculty Development Program on LaTeX organized by Auxilium College of Arts and Science for Women, Regunathapuram, Pudukottai(Dt), on 7<sup>th</sup> June, 2021.
- Newfangled Avenues of Applied Mathematics on Symposium Madurai Sivakasi Nadars Pioneer Meenakshi Women's College, Poovanthi, 11<sup>th</sup> 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, 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.
- 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.
- 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 13<sup>th</sup> September, 2023.

#### **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 11<sup>th</sup> 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 28<sup>th</sup> and 29<sup>th</sup> September 2019.

#### **Faculty Development Programme**

- Ms. P. Raja Pushpam & Mrs. K. Jency Priya, Assistant Professors in Mathematics, successfully completed the Induction Programme offered by Teaching Learning Centre, Ramanujan College, University of Delhi under the aegis of MHRD from 26<sup>th</sup> June to 24<sup>th</sup> July, 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, 5<sup>th</sup> to 19th July, 2021.

#### **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 24<sup>th</sup> & 25<sup>th</sup> 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 24<sup>th</sup> & 25<sup>th</sup> February, 2021.

**Book Publication:**

- “UGC NET/SET General Paper Answer with Explanations”, ISBN No. 978-81-19-10606-6.

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

<b>Title of the Programme</b>	<b>Institution/Venue</b>	<b>Year</b>
JACMAT FEST	J.A. College, Periyakulam	16 <sup>th</sup> Feb. 2018
Alumni Association	J.A. College, Periyakulam	22 <sup>nd</sup> Nov. 2021
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 <sup>th</sup> Feb, 2022
TNPSC Coaching Wing of SC/ST Minority Cell – How to crack TNPSC Group Exams	J.A. College, Periyakulam	17 <sup>th</sup> Feb , 2023
International Webinar on “Emerging Trends in Mathematics”	J.A. College, Periyakulam	13 <sup>th</sup> September, 2023
JACMAT FEST	J.A. College, Periyakulam	27 <sup>th</sup> September, 2023
Workshop on “Unlocking Success - NET/SET Exam Mastery”		29 <sup>th</sup> September, 2023
TNPSC Coaching Wing of SC/ST Minority Cell -Mastering Competitive Exams: A winning Strategy	J.A. College, Periyakulam	29 <sup>th</sup> September, 2023
Minority Cell of JAC - "How to Pass the TNPSC Group IV Examination"	J.A. College, Periyakulam	1 <sup>st</sup> Apr. 2024

## **CONTACT DETAILS**

Present Address : 18,Akilan street ,  
Thasilthar nagar,  
Thamaraikulam,Periyakulam -625601

Permanent Address : 18,Akilan street ,  
Thasilthar nagar,  
Thamaraikulam,Periyakulam -625601

Mobile Number : 8220847414

E-mail : **[rpushpammat@annejac.ac.in](mailto:rpushpammat@annejac.ac.in)**