

## PROFILE



Name : **Dr. B. Amala Jasmine**  
Designation : Assistant Professor  
Department : Mathematics  
Date of Birth : 14. 07. 1988  
Date of Appointment : 15. 06. 2015

## ACADEMIC

S. No.	DEGREE	UNIVERSITY/INSTITUTION	YEAR OF COMPLETION
1.	<b>B. Sc.</b>	Holy Cross College for Women, Trichy.	April, 2009
2.	<b>B. Ed.</b>	St. Anne's College for Education, Periyakulam.	April, 2010
3.	<b>M. Sc.</b>	J. A. College for Women, Periyakulam.	April, 2012
4.	<b>M. Phil.</b>	E.M.G. Yadava Women's College, Madurai.	April, 2013
5.	<b>Ph. D.</b>	Cardamon Planters' Association College, Bodinayakanur. Madurai Kamaraj University, Madurai.	March, 2019
6.	<b>PGDCA</b>	BDPS Software Limited, Tiruchirapalli.	June, 2009

**Total Experience** : 10 years

**Area of Specialization/ Interest** : Stochastic Process, Graph Theory.

**Professional Affiliation** : **NSS Programme Officer**  
NSS Staff Advisor  
Member of Extension Programmer  
Member of Attendance Committee

**Book Publication** : **Youth Red Cross**, First Edition, 2021  
ISBN: 978-92560-12-5  
PCF Publications, Madurai.  
**Problem Solving Skills**, First Edition,  
ISBN: 978-93-6415-875-6  
Vasanth Pathippagam, Chennai.

### Awards : 3

1. **SWAMY VIVEKANANDHA AWARD** for Excellence in Studies and Sports in the year 2017 sponsored by Bharathi Yuva Khendra, Madurai.
2. **BEST PAPER AWARD** for the research paper entitled **Analysis of Two Echelon Perishable Inventory System in Supply chain with Partial Backlogging** in the National Conference organized by the Department of Computer Science, J. A. College, Periyakulam in the year 2019.
3. **Kalvi Sevagar Viruthu – 2022** for the NSS activity by **Kurunji Kabilar Tamil Sangam** in the year 2022.

## Research Publications: 15

- **Analysis of Compliment Inventory System in supply chain with lost sale** on Int. Journal of Mathematical Sciences and Applications, Vol.6, No.2, December 2016. ISSN: 2230-9888.
- **Modelling and Analysis of Compliment Inventory System in supply chain with Partial Backlogging** on International Journal of Applied and Advanced Scientific Research. ISSN: 2456 – 3080. Special Issue, February – 2017.
- **Developing and Analyzing of Perishable Inventory System in Supply chain with Direct Demand and Lost sale** on International Journal of Computational and Applied Mathematics, Volume 12, No.1(2017).
- **Performance Analysis of Two- echelon Perishable Inventory System with Lost sale** on International Journal of Research in Information Technology, Volume 2, ISSN : 2001-5569, Impact Factor: 1.021, Issue 2, Feb. 2018, Pg. 1-11.
- **Modeling and Analysis of Compliment Inventory System in supply chain with Partial Backlogging** on International Journal of Fuzzy Mathematical Archive. ISSN: 2320 – 3350, Vol. 15, No. 2, Pg. 157-166, April – 2018.
- **Analysis of two Echelon Perishable Inventory system in supply chain with Partial Backlogging** on International Journal of Scientific Research in Computer Science Applications and Management Studies, ISSN: 2319 – 1935, UGC Ref. No. 63611, Vol. 8, Issue 1, January – 2019.
- **The Role of Mathematics in Computer Science College Education** on International Journal of Contemporary Research in Computer Science and Technology, ISSN: 2395 – 2765, Vol. 5, Issue 1, March – 2019.
- **Analysis of Fuzzy Inventory model with allowable Shortage and full backlogging using Fuzzy numbers** on UGC care Journal of Studies in Indian Place Names, ISSN: 2394 – 3114, Vol. 40, Issue 70, March – 2020.
- **Labelling of Cordial Graphs** on JAC Journal of Science, Humanities and Management, ISSN: 2347 – 9868, Vol. 7, June – 2020.
- **Valzhuvam Potrum Manitha Manpu** on International Multilateral Thamizh Journal, ISSN: 2321 – 984X, Special Issue, September – 2021.
- **Comparative Analysis of Pseudo-Smarandache Function** on JAC Journal of Science, Humanities and Management, ISSN: 2347 – 9868, Vol. 10, No.1, December – 2022.
- **Total Coloring of Fuzzy Graphs Using Strong  $\alpha$ -Cuts** on Advances in Fuzzy Sets and Systems, ISSN: 0973-421X, Vol. 28, Pg. 77-86, June – 2023.
- **Fuzzy Optimization in Disease Recognition Based on Gernotology and Chronic Disease Using Fuzzy Numbers** on Indian Journal of Natural Sciences, ISSN: 0976 – 0997, Vol. 14, Issue 80, October – 2023.
- **Exploring Biodiversity: Analyzing Monkey Population Variations in the Kodaikanal Hills** on Dynamic Trends in Multi-Domain Integration, Volume - 2, ISBN: 978-81-19368-31-0, Pg. No. 126 – 130, Published by AUTHORS CLICK PUBLISHING Area no.55, Ashok Vihar, Phase 2, Bilaspur, Chhattisgarh 495001. www.authorsclick.com Copyright © 2024.
- **Comparative Analysis in Solving FFLP using Ranking Technique relating Risk Factors to Chronic Disease** on Biochem. Cell. Arch. Vol. 24, No. 2, pp. 2071-2077, October 2024, ISSN 0972-5075, eISSN 0976-1772, <https://connectjournals.com/03896.2024.24.2071>.

## Seminars/Conferences/ Workshops Participated: 17

- National Workshop on **“Research Practices in Mathematics And Computer Science”** organized by Research Centre of Mathematics, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam from 3<sup>rd</sup> and 4<sup>th</sup> August, 2015.
- Workshop on **“Techniques of Teaching Mathematics for Visually Impaired”** organised by Research Centre of Mathematics, Jayaraj Annapackiam College for Women(Autonomous), Periyakulam on 4<sup>th</sup> August, 2015.
- National Seminar on **“Ranking the Research Publications: Citation Analysis, Citation Databases and Anti-Plagiarism”** organised by the Central Library, Jayaraj Annapackiam College for Women(Autonomous), Periyakulam from 27<sup>th</sup>- 28<sup>th</sup> January, 2016.
- National level conference on **Quality Assurance and Quality Sustenance in Higher Educational Institutions: Challenges and Solutions** at Jayaraj Annapackiam College for Women, Periyakulam on 29<sup>th</sup> & 30<sup>th</sup> September, 2016
- 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 Jayaraj Annapackiam College for Women (Autonomous), Periyakulam on 13<sup>th</sup> December, 2017
- 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, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam, on 27<sup>th</sup> and 28<sup>th</sup>, February 2019.
- National Conference on **“Application Of Mathematics In Real Life”** (AMRL-2019) was organized by Research Centre & PG Department of Mathematics at Jayaraj Annapackiam College For Women(Autonomous), Periyakulam, on 17<sup>th</sup>, December 2019.
- International Webinar on **“ New Advances In Mathematical And Computational Sciences”** organized by the PG and Research Department of Mathematics, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam on 22<sup>nd</sup> October 2021.
- National Webinar on **“Emerging Trends in Application of Mathematics”** organized by the PG and Research Department of Mathematics in collaboration with Annai Vailankanni Arts and Science College, Thanjavur, on 27<sup>th</sup> October, 2022.
- International Webinar on **“Recent Advances in Pure and Applied Mathematics”** was organized by PG and Research Department of Mathematics, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam on 27<sup>th</sup> January 2022.
- International Webinar on **“Emerging Trends in Mathematics”** organized by the PG and Research Department of Mathematics, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam on 13<sup>th</sup> 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 11<sup>th</sup> December, 2024.

### Short Term Course: 2

- Attended Short Term Course on Human values & Well-being for all subjects Programme under Malaviya Mission Teacher Training Programme (MMTTP) of University Grants Commission (UGC) organized by UGC-Malaviya Mission Teacher Training Centre, Banaras Hindu University, Varanasi - 221005 (U.P.) from May 08.05.2025 to 14.05.2025.
- Attended Tens Days Short Term Training Programme on Vedic Mathematics: Techniques and Applications organized by J. A. College for Women, Periyakulam from 04.08.2025 to 14.08.2025.

### Faculty Development Programme: 1

- Five Days International Virtual Faculty Development Programme on Harnessing Generative AI: Smart Tools for Teaching, Learning, Evaluation & Research organized by St. Joseph's College, Department of Computer Science, Tiruchirappalli from 07.07.2025 to 11.07.2025.

### Conference Presentations: 10

- Presented a paper on **“Performance Analysis of Two- echelon Perishable Inventory System with Lost sale”** in the National Seminar on Topological Graph Theory at J.A College, Periyakulam on 19.12.2016
- Presented a paper on **“Optimization of Inventory system in Two-Echelon with Direct demand and Lost sale”** in the International Conference on Recent Trends in Applied Mathematics, Sri. S. Ramasamy Naidu Memorial College, Sattur, Virudhunagar-Dt on 24.01.2017 & 25.01.2017.
- Presented a paper on **“Modelling and Analysis of Compliment Inventory System in Supply chain with Partial backlogging”** in the International Conference on Advances in Theoretical and Applied Mathematics at Madurai Sivakasi Pioneer Women's College, Poovanthi, Sivagangai -Dt on 14.02.2017
- Presented a paper on **“Developing and Analyzing of Perishable Inventory System in Supply chain with Direct demand and Lost sale”** in the International Conference on Science, Engineering, Technology and Management (ICSETM) at Kuriakose Elias College, Mannanam, Kottayam-Dt, Kerala on 08.03.2017 & 09.03.2017
- Presented a paper on **“Comparative Analysis of Compliment Inventory System in Supply chain with Lost sale”** in the National Conference on Mathematical Modelling at C.P.A College, Bodi on 30.03.2017 & 31.03.2017
- Presented a paper on **“The Art of Kolam in Graph Theory”** in the National Conference on Present Scenario in Graph Theory at Mannar Thirumalai Naicker College, Madurai on 16.12.2015.
- Presented a paper on **“Analysis of Compliment Inventory System in Supply chain with Lost sale”** in the International Seminar on Algebra and Applied Mathematics at HKRH College, Uthamapalayam on 11.01.2018.
- Presented a paper on **“Impact on Environmental effects and Issues on Agricultural movement”** in the National Conference on Popular Movements in South India during 19<sup>th</sup> & 20<sup>th</sup> centuries at J.A College, Periyakulam on 7.2.2018 & 8.2.2018.
- Presented a paper on **“Analysis of two Echelon Perishable Inventory system in supply chain with Partial Backlogging”** in the National Conference on Internet of Things at J.A. College for Women, Periyakulam on 22.2.2019.
- Presented a paper on **“Comparitive Analysis in Solving FFLP using Ranking Technique linking Risk Factors to Chronic Disease”** in Mathematical Modelling, Simulation and Nonlinear Dynamics at International Conference at Bharathiar University, Coimbatore on 15<sup>th</sup> and 16<sup>th</sup> February, 2024.

**Contact Details:**

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