

Name	: Mrs. S. Ponmalar
Designation	: Assistant Professor
Department	: Computer Science
Qualification	: M.Sc., M.Phil., (Ph.D.)
Experience	: Teaching – 11 Years
Area of Specialization(s)	: Machine Learning, Automation, Software Testing.
Email	: ponmalar@psgrkcw.ac.in / ponmalar.phdcs@gmail.com



Educational Qualifications

Ph.D.	: Dr. N.G.P Arts and Science College (Bharathiar University, Coimbatore) Computer Science – Pursuing (2022 - Till Date) – (Doctoral Committee Meeting I Completed)
M.Phil.	: Avinashilingam Deemed University, Coimbatore Computer Science – 80% Highly Recommendable (2013 – 2014)
M.Sc.	: Government Arts College, Udumalpet Computer Science - 74% - (2011 – 2013)
B.Sc.	: Sri G.V.G Visalakshi College for Women, Udumalpet Computer Science - 71% - (2008 – 2011)
12th.	: Government Higher Secondary School, Pethappampatti State Board - 73% - (2008)
10th.	: Government Girls Higher Secondary School, Udumalpet State Board - 67% - (2006)

Technical Skills

• Programming Languages	: Java, HTML, PHP, .NET, Python
• Web Application Tools	: React JS, Angular JS.
• Technologies	: Artificial Intelligence and Machine Learning, Cloud, Hardware, Multimedia, AR/VR
• Software	: MS Office, Adobe Photoshop
• Automation Tools	: UiPath, Automation Anywhere
• Testing Tools	: Selenium WebDriver, WinRunner
• Database	: SQL Server, MySQL Server, MongoDB

Professional Experience

- **Assistant Professor**
 - College : PSGR Krishnammal College for Women, Coimbatore
 - Experience : 7 Years 3 Months (From 26.10.2018 - Present)
- **Assistant Professor**
 - College : Sri GVG Visalakshi College for Women, Udumalpet.
 - Experience : 4 Years (From 01.12.2014 - October 31st 2018)
- **Total Experience in Academic: 11 Years 3 Months**

Strength

- | | | |
|----------------|---------------------|---------------------|
| • Adaptability | • Honest | • Strong Dedication |
| • Disciplined | • Mentorship Skills | • Team Work |
| • Hardworking | • Motivator | • Tech Enthusiast |

Book Published

- Initiated the book writing and served as one of the authors for a Book on "**Robotic Process Automation**" for Beginners with ISBN 9-788195-136216 in July 2022.
- Initiated the book writing and served as one of the authors for a Book on "**Problem Solving using Worksheets**" Year of Publication: 2022 with ISBN No: 978-81-953681-4-3.
- Initiated the book writing and served as one of the authors for a Book on "**Data Visualization Tools**" Year of Publication: 2022 with ISBN No: 9 - 789391 - 347215.
- Initiated the book writing and served as one of the authors for a Book on "**OOSE: Software Design Tools**" Year of Publication: 2022 with ISBN No: 9 - 789391 - 347208.
- Published an E-Book titled "**Software Testing Selenium Automated Testing Tool**" in Amazon Kindle in April 2020. Amazon Standard Identification Number (ASIN): B086RRZYT4.
- Initiated the book writing and served as one of the authors for a Book on "**Bioinformatics for Beginners**" Year of Publication: 2019 with ISBN No: 9-788193 -708828

Certifications

- UiPath Robotics Process Automation Certification (Dec 2023)
- Automation Anywhere Certification - ICT Academy (Aug 2022)
- TCS Certification in Selenium Automated Testing Tool (Jan 2019)

Achievements

- **HCL Certification in Networking (Year: 2010)**
- **CCI Certification in Tally & Photoshop (Year: 2009)**
- **Scored 100/100 in Hardware during college (Year: 2008)**

Design Patent

- **Patent Granted:** "Solar Power Bank Cum Torch". **Patent No:** 397661-001
Patent Filed on 13.02.2023, Published on 15.10.2023.

Awards and Recognition

- **Certificate of Appreciation** as a dedicated mentor at **GVG Innovate - Idea Fest 2025**, organized by Sri G.V.G. Visalakshi College for Women, Udumalpet. Successfully guided and motivated students to participate in the **Skill Event**, showcasing commitment to fostering innovation and academic excellence. The event was held on **March 1, 2025**.
- **Certificate of Recognition** from **UiPath Academic Alliance** for her contribution to the **award-winning team from PSGR Krishnammal College for Women**. Her role in advancing automation and AI skills was acknowledged as part of the **2024 UiPath India Academic Alliance Awards** on **February 15, 2024**.
- **Certificate of Appreciation** as a **Best Alumni Award** by Sri G.V.G. Visalakshi College for Women, Udumalpet on **April 2023**.
- **Certificate of Appreciation** as a dedicated mentor at **GVG Innovate - Idea Fest 2023**, organized by Sri G.V.G. Visalakshi College for Women, Udumalpet. Successfully guided and motivated students to participate in the **Skill Event**, showcasing commitment to fostering innovation and academic excellence. The event was held on **February 2023**.
- **Certificate of Appreciation** as a **Best Coursera Co-ordinator Award** by PSGR Krishnammal College for Women, Coimbatore on **March 2022**.
- **Best Department Award** - Computer Science Department in the year of 2018 to 2024 by PSGR Krishnammal College for Women, Coimbatore. (Continuous 7 Years).

FDP / Seminar / Workshop attended

- Participated in 200+ Faculty Development Programs (FDP), Workshops, and Seminars on various emerging technologies, including **Artificial Intelligence (AI), Generative AI, Machine Learning, Cloud Computing, Cyber security, Mobile App Development, Augmented Reality (AR) & Virtual Reality (VR), Web Development, and Robotic Process Automation (RPA)**, organized by reputed institutions and other leading Arts and Engineering colleges.

Resource Person

- Delivered an engaging session on “**UiPath for Beginners: A Practical Approach to RPA**” at The Gandhigram Rural Institute - Deemed to be University, Dindigul on 2nd April 2025, introducing students to **Robotic Process Automation (RPA) fundamentals and practical applications using UiPath.**
- Delivered an engaging FDP session on “**Generative AI Tools**” at PSGR Krishnammal College for Women on 14th June 2024 and 21st July 2024.
- Delivered an engaging session on “**Growth Mindset: The New Psychology of Success**” at KG College of Arts and Science on 10th October 2024, inspiring students with new perspectives on success and learning.
- Delivered a Workshop on “**Creating Effective PowerPoint Presentation**” to Parul Institute of Commerce, Parul University, Karnataka on 23.08.2022, inspiring students with creative ideas with info graphics methods.
- Delivered an engaging FDP session on “**Create a Blog**” at Sri G.V.G Visalakshi College for Women on 7th August 2018.

Member of Academic Bodies

- Question Paper setter in more than 10 colleges
- Examiner in Bharathiar University Computer Science UG board and in various autonomous colleges in and around Coimbatore
- Board of Studies Alumni member – Subject Expert in Department of Artificial Intelligence, Sri GVG Vishalakshi College for Women, Udumalpet.

Projects

- 25+ real-time college automation projects using RPA (UiPath).
- QR-based tree mapping project for the campus.
- AR/VR marker-based projects.
- Mobile app for faculty activity tracking and cafeteria management.
- 10+ Selenium testing use cases explored.

Member of Professional Bodies

- International Association of Engineers (IAENG)

Publication of Articles in Journals

- Published a paper entitled “**Exploring Knee Osteoarthritis Diagnosis through Efficient Mixture of Machine Learning and Deep Learning Models: A Comprehensive Review**” in the Indian Journal of Natural Sciences, International Bimonthly (Print) – Open Access, Vol.15 / Issue 85 / Aug / 2024 VOL. 2, NO. 11, ISSN 2225-7217, ISSN: 0976 – 0997. **(Web of Science)**
- Published a research paper titled “**A Survey: IOT Based Home Security And Automation System**” in International Journal of Mechanical Engineering, Volume 7, Year 2022, Pages 6710-6713, ISSN: 0974-5823, DOI:10.56452/00000
- Published a research paper titled “**A Survey On White Blood Cell Classification Using Microscopic Images**” International Journal for Scientific Research and Developement (IJSRD), Volume 7, Year 2020, Page: 13
- Published a research paper titled “**A Survey: Web Mining, Web Log, Pattern Discovery**” Journal of Emerging Technologies and Innovative Research (JETIR), Volume 6, Year 2019, Page: 196. **(UGC Care)**
- Published a research paper titled “**A Survey: Analysis of Virus and Malware Detection**” in INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH IN COMPUTER AND COMMUNICATION ENGINEERING (IJIRCCE), Volume 6, Issue 3, March 2018, ISSN(Online): 2320-9801, Impact Factor: 7.194.
- Published a paper entitles as “**Design of Power Gating Technique using Neural Functions for Signal Compression and Decompression**” in International Journal of Engineering Science and Computing (IJESC) Volume 6 Issue No.3, March 2016, ISSN 2250-1371.

College level Co-ordinator

- CIIED wing Co-ordinator (Year: 2024, 2025)
- ED (Entrepreneurship Development) Cell Coordinator (Year: 2024, 2025)
- eContent Development core team Co-ordinator (Year: 2024, 2025)
- Generative AI Course Mentor to all major 2nd year students (Year: 2024)
- ERP Module IV – Survey Module Co-ordinator (Year: 2024, 2025)
- Overall Teaching & Learning Students Feedback and College Feedback Co-ordinator (Year: 2020 to 2025)
- Coursera Marketing Coordinator (Year: 2022 - 2024)
- India Today Ranking Coordinator (Year: 2023 - 2024)

- TEDx Coordinator (Year: 2023)
 - Virtual Lab Co-ordinator (Year: 2021 to 2023)
 - ICT Academy coordinator (Year: 2021-2022, 2022-2023)
 - Website Co-ordinator (Year: 2015 to 2017, 2020 to 2023)
 - ARIIA Coordinator (Year: 2020 - 2021)
 - College Exam Committee Member (Year: 2015 - 2016)
 - College Union Member (Year: 2014 to 2015)
 - College Magazine Coordinator (Year: 2014 to 2018)
 - Mentor and Mentee Club Co-ordinator
 - Technical Committee Co-ordinator
 - Social Media Co-ordinator
 - Graphics Designer
- (Brochure, Invitation, Certificates, Badges, Shield, College Magazine, etc.,)

Conference Presentations

- National Conference Presented : 7
- International Conference Presented : 15

Department level Co-ordinator

- Coordinator of National Conference (February 2025).
- Alumni Co-ordinator (Year: 2018 to 2025).
- Coordinator of International Conference (February 2022).
- Learning Management System (LMS): Ample software Co-ordinator (Year: 2022 to 2024)
- Association in-charge from (Year: 2020, 2021, 2022).
- NIRF Criteria V Co-ordinator (Year: 2019 to 2025)
- Department News Letter Coordinator (Year: 2019, 2020, 2021, 2022, 2023).
- Admission Incharge (Year: 2018 to 2025).
- Class Incharge (Year: 2018 to 2025).
- Internship Guide (Year: 2018 to 2025).
- Project Guide (Year: 2018 to 2025).
- Co-ordinator in Intercollegiate and Interdepartmental meets.
- Major contribution in curriculum and syllabus design for B.Sc. Computer Science & B.Sc. Computer Science with Cognitive Systems.

- Organized various Workshop / Seminar / Guest Lecture / Video Conference / Alumni Meet as a Department Co-ordinator.
- Outreach Activity Incharge (Help to Orphanage peoples, School Students training, Students self-skill development, Women Self-help groups Awareness training in Digital Technology, Tree plantation).
- JOC (Job Orientation Course) Coordinator.
- Placement Coordinator
- Actively involved in curriculum design and Academic Co-ordination

Student Development, Industry Collaboration & Technical Training

- Organized and led industrial visits for students over the past seven years to top industries and tech hubs across Bangalore, Mysore, Chennai, Pondicherry, Cochin, and more, providing hands-on exposure to Software Development, AI & ML, Cloud Computing, Cybersecurity, Research, and Automation.
- Collaborated with ELGi Equipment Pvt. Ltd., serving as an internship mentor for students.
- As a UiPath Educator, successfully mentored and produced UiPath Student Ambassador Champions for three consecutive years.
- Guided 4+ Smart India Hackathon (SIH) projects from ideation to submission.
- Developed GenAI eContent and Design Thinking eContent for all 2nd-year students.
- Provided technical training and awareness in Selenium Testing, Robotics & Process Automation, and Machine Learning tools.
- Coordinator – ICT Academy Skill-A-Thon 2023: Played a key role in guiding college students to build a UiPath bot for the event. Helped 4,500+ students complete and submit their projects, contributing to the team's recognition as the best coordinator.
- Led an awareness program on “Pasumai Vazhiyai Noki” with RAAC and Coimbatore Corporation at Brooke Fields Mall, promoting eco-friendly practices and plastic reduction on 22.12.2018.