



SHRIMATI INDIRA GANDHI COLLEGE

(Affiliated to Bharathidasan University)

Nationally Accredited at 'A' Grade (4th Cycle) by NAAC | An ISO 9001 : 2015 Certified Institution
Tiruchirappalli - 620 002

Name : Ms VIJI PARTHASARATHY
Designation : Assistant Professor
Department : Computer Applications
Qualification : M.S.I.T., M.C.A., M.Phil., (Ph.D),
Experience : Teaching: 23 Years
Area of Specialization(s) : AI & ML
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Academic Qualifications

Degree	Branch	Institution/University Name	Year of Graduation
Ph.D	Computer Science	Adaikalamadaha College, Tanjore	Currently doing
M.Phil.,	Computer Science	Kamarajar University	2006
M.C.A.,	Computer Applications	Periyar University	2013
B.Sc.,	Computer Science	Bharathidasan University	1989

Book Publications

S.NO	CONTENT	YEAR
1	Java with Coffee - An Effortless Reading (ISBN/ISSN Number: 978-1-68576-220-9)	2021
2	A hand Book on Python Programming, ISBN NUMBER: 979-8886844023	2022
3	Artificial Intelligence and Machine Learning, ISBN: 978-93-91347-72	2023
4	Artificial Intelligence and Expert Systems, ISBN: 978-93-341-5454-2	2024

Paper Publications

1. Genetic Algorithm Based Botbet Detection in Internet of Things, AC JOURNAL, VOLUME IX, ISSUE V, MAY 2020, ISSN NO: 2231-3990
2. Role of AI published in international Journal of Multidisciplinary Research Cases and Studies – USA-ISSB-2994-398, Oct 2023 with P. Harini, PhysioTherapist Professor, Coimbatore
3. Databases and Data Warehouses- An Overview published in international Journal of Multidisciplinary Research Cases and Studies – USA-ISSB-2994-398, Oct 2023 with R. Indra, PG and Research Department of Computer Science..
4. A paper published in an **International Research Journal** on Advanced Science Hub 2582-4376 www.rspsciencehub.com Vol. 06, Issue 08 August 24.

Book Publications

1. A chapter titled “BIG DATA AN ANALYSIS “ has been Published in IIP Book Series Futuristic Trends in Computing Technologies and Data Sciences” under volume 3,2023 .
2. A Chapter in Scopus Indexed – edited book has been peer-reviewed and approved for publication in Jan 2023 and title of the book is Impact of COVID-19 on media and entertainment (ISBN Number:978-93-90153- 02-2)
3. A chapter in “The digital Spectrum Applications of Computing Across Domans”, LORDINE NUOVO PUBLICATIONS, ISBN 978-93-90084-99-9 published for the International Conference, Bishop Heber College, Trichy.

Patent Publications

1. A Patent received for a work “Twitter Sentiment Analysis Using Machine Learning on Python on 3rd December 2021. The Patent Office Journal, 49/2021.
2. UK design patent titled " Smart Crop Health Monitoring Device " with Design number: 6355225, granted on 25th March 2024
3. An Indian design patent “ARTIFICIAL INTELLIGENCE BASED NERVE ACTIVATION DEVICE FOR HEALTHCARE TREATMENT “with design number: 414465-001 granted on 22nd April 24
4. An Indian design patent “An apparatus for Soil Moisture Detection” with design Number 435092-01 granted on 16th December 2024.

Presentations in Conference

1. Paper presented on “Ground water Recharging using Decision Support System And Algorithms” at Vivekanandha Institute of Information and Management Studies, Thiruchegode, Namakkal on 2nd and 3rd March 2013.
2. Paper presented on Edge Based ThreeTier Cyber Security Architecture for Smart Cities at Life Long Learning Academy, Arumugam Road, **Singapore** 409957 on 4th June 2019.
3. IOT Security Scheme Selector Based on A Survey at Gulf American University, **DUBAI** on 1st April 2020.
4. Presented a paper in International conference on Recent trends in Cyber Security on 15th December 2021 conducted by Department of Computer Science, Shrimati Indira Gandhi College.
5. Paper presented in an International conference on “A Comprehensive Survey of IoT and Machine Learning Innovations in Agriculture”, organized by G. Narayanamma Institute of Technology & Science, Hyderabad and Global Conference, Coimbatore on 24th and 25th July 2024.
6. Paper presented in an International conference on “Emerging Trends and Research Frontiers in Artificial Intelligence-2025” organized by Holy cross College with Brillersys, AI-Tech Company, Coimbatore on 8th January 2025.
7. Paper presented in an International conference on “IoT and AI based Smart Cultivation of Tulsi: A Novel Framework for Sustainable Agriculture” organized by Bishop Heber College, Trichy on 25th February 2025.
8. Paper presented on “Best Practice – I Eco Friendly Initiatives” in the one day National Level Conference on “Institutional Values and Best Practices” by IQAC of VHN Senthikumara Nadar College, Virudhunagar, on 24th March 2023.
9. Participated and presented a paper on “Resource Allocation Strategies” at SRC, Trichy 28th and 29th Dec 2023.

Participation in Conference

International:

Participated in the International Conference on “Intellectual Property Rights, Research and Development on 26th April 2025.

National:

1. Frontier Research Areas in Computer Science on 17th and 18th August 2006 at Dhanalakshmi Srinivasan College of Arts and Science (W), Perambalur
2. Participated in the National Conference on "**BIOINFORMATIC TOOLS FOR GENE AND PROTEIN ANALYSIS**" at Shrimati Indira Gandhi College, Tiruchirappalli-2 during 7th & 8th September 2007. Participated in the National Conference on "**SOFTWARE AND**

COMPUTING TECHNOLOGIES" jointly organized by BUTP, SIGC, Trichy and Computer Society of India, Trichy Chapter, CSI-WOMEN Students Branch of SIGC on 19th September 2012.

3. Participated in the National Conference on "**RECENT TRENDS IN ENGINEERING AND TECHNOLOGY**" organized by Sri Raja Rajan College of Engineering and Technology", Karaikudi on 4th February 2013.

Participation in Seminars

1. Future Scenario of IT 1st Sep 2006 Dhanalakshmi Srinivasan College of Arts & Science (W), Perambalur.
2. Animation Based Gaming Entertainment Computer and 13th and 14th March 2009 BUTP, Kajamalai Campus, Trichy.
3. Participated in the National level Seminar on "**HIGH PERFORMANCE COMPUTING**" organized by Shrimati Indira Gandhi College, Trichy on 23rd February 2012.
4. Participated in the National Seminar on "**CLOUD COMPUTING**" jointly organized by BUTP, SIGC, Trichy and Computer Society of India, Trichy Chapter on 26th & 27th September 2012.
5. Developing JSF Web Application with Hypertext Approach on 6th June 2020 at Bishop Heber College, Trichy
6. NAAC Sponsored One-day Online Seminar on "**Qualitative & Quantitative Metrics in RAAF of NAAC**" on 17th Sep 2021
7. Two Day NAAC Collaborated National Virtual Seminar on "**Holistic and Multidisciplinary Approach Towards National Higher Education Quality Framework**" on 05.07.2023 & 06.07.2023.

Participation in Workshop

1. Statistics for Proteomics and Clinical Research 2012 on 7th August 2012 at Bharathidasan University, Khajamalai Campus.
2. Recent Trends in Human – Computer Interaction 28th Feb 2015 Hotel Sangam , Trichy
3. NAAC Awareness Programme 27th and 28th 2019 , Nagadevanahalli, Bengaluru-56
4. 3 Day National Workshop on "An AI-Educators Tool kit, Enhancing Learning & Advancing Research" from 21st Nov to 23rd Nov at Maris Stella College, Vijayawads, AP.

Participation in Orientation Programme/ShortTerm Courses

1. Participated I NEP 2020 Orientation Programme from 19th Feb to 28th Feb 2024 by Malavia Mission
2. Teacher Training Programme.
3. Participated in National IP Awareness Mission Program on “ National Intellectual Property Awareness Mission” on April 26,2023.Completed “Internet of Things” at ELITE level through SWAYAM platform in 2022
4. Achieved the certification of Azure AI Engineer Associate on 4th Feb 2023 in Microsoft at Azure.
5. Completed Certification course on AWS Academy Cloud Foundations from 27/03/2023 to 31/03/2023 and received a certificate.
6. completed “Introduction to MongoDB” udeer MongoDB.
7. Two courses on “Internet of Things-101” and “Decision tree using PYTHON” under INFOSYS in 2025.

Participation in Faculty Development Programme

1. Effective Paper Presentation & Article Publishing on 5 th& 6th August 2010 at Ethiraj College for women, Chennai.
2. Mobile App Development on 16th and 17thDecdmber 2015 at Shrimati Indira Gandhi College, Trichy with ICT Academy
3. Data science and Big Data Analytics on 14th November - 18th November 2016 at Kongunadu College f Engineering and Technology, Trichy
4. Block Chain Technology MITS – Mandanapalle
5. Attended in 5 days National level FDP on “Teaching Pedagogy” from 26th Feb to 1st March 2024
6. organized by MAR GREGORIOS COLLEGE OF ARTS & SCIENCE, Chennai - 600 037
7. Attended in 3 days FDP on “Redefining Research Skills: Enriching Research and Publications” from 3 rd to 5th July 2024
8. FDP on Internet of Things conducted by NPTEL- AICTE from Jan - April 2022.
9. Participated in 5 days Cloud Practitioner Program and received certificate , conducted by ICT Academy at Jamal Mohammed College, Trichy from 26th Dec 2022 to 30th Dec 2022.
10. FDP on “TABLEAU” on 24th June 2022 organized by Department of Computer science, Shrimati Indira Gandhi College, Trichy.

11. Attended in 3 days FDP on “Redefining Research Skills: Enriching Research and Publications” from 3rd to 5th July 2024.
12. 5 days international FDP from 16th Sep 2024
13. Attended 7 days FDP from 20/01/2025 by Atal Academy

Conference/Seminar/Workshop Organized

Acted as a Secretary for an International Conference on “ Next Generation Technologies for Sustainable Computing” 2025, where 4 Resource Persons from USA, Dubai and South Korea had been shared their knowledge and Proceedings was published. Participants from the different part of India has been benefitted.

Invited Speaker/Session Chair-Conference/Seminar/Workshop

1. Volunteered as a Resource person for Spoken English to the students of Rural Area under Lady Hawk from 10/01/2022 to 25/01/2022
2. Delivered a talk 12 characteristics of an on effective Teacher during International Seminar on Best
3. Qualities of Effective Teacher" for teachers day celebration conducted by Bestow Edutrex, Mumbai.
4. Resource Person in an International One day Workshop on "Mentoring the Mentor" held on 2nd
5. Oct 2022
6. Resource person in an International One day Orientation programme on “Academic, Integrity, Diversity and Quality in Education” on 5th November 2022
7. Resource Person in a workshop, delivered and demonstrated on Machine Learning using Python and Cloud at SRM Institute of Science and Technology, College of Science and Humanities, Chennai on 13.04.2022.
8. Resource Person in one day National Seminar on ”Addressing Educational Challenges: Professional Remedies”(online) on 30th June 2024.

Awards/ Honors

Awards/ Honors	Agency/ Institute	Year of Award
Best Teacher	Lions Club of Tiruchirappalli Host	2023
Best women Faculty Award 2023		
Educational Leader of year 2023”		
Outstanding Academic Achievement Award	NSKD Techno Research and Innovation Solution	2025