profile

Name   : **Dr. P. Mercy**

Designation   : **Assistant Professor and Head**

Department   : **B. Voc. Software Development**

Educational Qualification   : **M.C.A., M. Phil with SET, Ph.D.,**

Degree / Diploma	Subject / Main	Year of Completion	Percentage	Name of the School College / University
HSC	Science	2002	85.2	Periyar Maniammai Girls' Higher Secondary School, Trichy
U.G.	B.Sc. Physics	2005	82.5	Holy Cross College(Autonomous) Bharathidasan, University.
P.G.	M.C.A.	2008	80.2	Cauvery College for Women Bharathidasan, University.
M.Phil.	Computer Science	2010	86.6	Cauvery College for Women Bharathidasan, University.
SET	Computer Science and Applications	2016	Qualified	Mother Theresa University
Ph. D	Computer Science	2021	Commended	Jamal Mohammed College, Trichy

Teaching Experience: **13 Years 2 Months**

Area of Specialization: **Computer Network, Wireless Sensor Network, Internet of Things**

Positions Held (VP / Dean/ HOD / Director/ Overall Coordinator etc.)

S. No.	Name of the Position	Period
1	Alumnae Association In-charge	2014-2016,2019-2020
2	HRD In-charge	2017 –2020,2019-2020
3	AICTE - Overall Coordinator	2016-2019
4.	PMKVY Coordinator	2018-2019,2024-till date
4	B. Voc. Software Development- Overall Coordinator	2020-2021
5	Department of B. Voc. Software Development -HOD	2021 – Till Date

Achievements

➢ Certified by **ICT academy** and **AWS academy** for the course Cloud Practitioner –(AWS)

➢ Certified **Elite Silver by SWAYAM NPTL** for the course Introduction to Industry 4.0 and Industrial Internet of things

➢ Completed the Basic, Advanced Level Training and Reskilling training offered by the Ministry of Education's Innovation Cell (MIC) & All India Council for Technical Education (AICTE), New Delhi and become InnovationAmbassador at HCC in the year 2022-2023,2024-2025

➢ Designing the Course Pattern, Syllabus and Credit allocation to courses as per the guidelines of UGC National Skill Qualification Framework.

➢ Submitted Proposal to start B. Voc. Software Development (UG Degree Programme) and got approval from UGC –National Skill Qualification Framework to run the course on 23 September 2020.

➢ Submitted Proposal for Pratama Mandri Kaushal Vikas Yojana Scheme (PMKVY-I) got approval from AICTE and received grant.

As a Judge/resource in

✓ Paper Presentation Session-Tech Talk in the Inter-collegiate competition "Ruby Tech" organized by Cauvery College for Women

✓ Orientation session on IIC organized by HCIICT,6th July 2024

✓ Capacity development programme organized by Department of Computer Applications and IIC, Cauvery College for Women- 28 June 2024

✓ Paper Presentation session in Intra department competition "Cyberfest" organized by computer science

✓ Codex event in Intercollegiate Competition "Webfest" organized by the Department of Computer Applications

✓ Inter-Department Elocution competition conducted by Department of Chemistry, Physics and Maths in collaboration with Holy Cross Innovation and Incubation Council (HCIIC)-2023

E-lessons developed:

✓ Computer Organization And Architecture - Parallel Processing

✓ Internet of Things: Introduction to Internet of Things

✓ Machine to Machine and Internet of Things

✓ Data Manipulation Language

✓ Architecture of Machine to Machine, Internet of Things and Software Defined Networking

✓ Issues in Data Link Layer

Seminar/Workshop/conference Organized

✓ Organizing Secretary-Two Days Virtual International workshop on "unleashing the innovative Technologies" December 2023-2024

✓ Organizing secretary - International Seminar on Research Areas in Data Analytics and Security-19thDec 2022

✓ Convener and Organizer -one day FDP on Augmented and Virtual Reality -A hand on session-10thFeb 2021

✓ Organizing member -seminar on Innovative Computing Technologies- 8 Jan 2018

✓ Organizing member - National Seminar on Data Science- 20th February 2018

Name of the Course	Faculty Development Program	Duration in Days	From – To
Orientation Course	National Level, Academic Staff College, Bharathidasan University	1 month	20th May 2010 – 16th June 2010

AICTE Sponsored FDP on IoT Issues and Challenges	M.A.M College of Engineering, Siruganur	2 weeks	6th Nov2017- 19th Nov 2017
Hands on FDP: Data Science Using Python	Jeppiar Institute of Technology, Chennai	5 days	18th May 2020 – 22nd May 2020
International FDP on Recent Insights on Cyber Security	Cauvery College for Women, Trichy	1 day	7th May 2020
Artificial Intelligence and IoT- Heuristic Transdisciplinary perspectives	CICRSD, Holy Cross College (Autonomous) Trichy	5 days	4th July 2020 10th July 2020
Integrated Data Analytics – the Tools and Applications around Industry Verticals	AICTE Teaching and Learning Academy (ATAL Academy)	5 days	5th July 2021- 9th July 2021
New Epoch in Software Learning	PG and Research department of Mathematics, Holy Cross College(Autonomous)	5 days	16th August 2021- 20th August 2021
Blended and Inclusive Strategies in Artificial Intelligence	PG Department of Computer Science(Autonomous)	5 days	18th October 2021- 22nd October 2021
Technologies for the New Era	Cauvery College for Women	1 day	22nd Jan 2022
Innovative Teaching and Learning Methods	Patrician College of Arts and	5 days	11th July 2022
Digital Pedagogies for achieving sustainable development goal in	All India Association for Christian Higher Education, New Delhi & Lady Doak College ,Madurai	5 days	06th Oct 2022 –
FDP on React.JS	Bishop Heber College, Trichy	1 day	18th March 2023
MOOCS and E-Content Development	Guru Angadev Teaching Learning Centre & Holy Cross College	6 days	29 April 2023- 5th May 2023
International FDP on Transformative Teaching Strategies and Innovative Research	PG Dept. of Computer Application, Holy Cross College(Autonomous)	1 day	30th January 2024
International FDP on Empowering Education with AI based Learning	PG and Research Dept. of Computer Science, Holy Cross College(Autonomous)	3 days	29 January 2024- 31 January 2024
Introduction to Industry 4.0 and Industrial Internet of Things	SWAYAM-NPTL	12 Weeks	January-March 2024
Leveraging AI Technologies for Enhanced Teaching Learning and Assessment	Jamal Mohammed College (Autonomous)	5 Days (online)	
Cloud Practitioner –AWS	ICT Academy	5 Days	19th August 2024- 23rd August 2024

SEMINAR/WORKSHOP/CONFERENCE ATTENDED

Theme	Place	International /National / State level	Year	Resource Person Paper Presentation/ Participation
International Conferenceon Advance Computing	Cauvery College for Women ,Trichy	Inter National Conference	2009	Member-Event managing committee
Image Computing and Security	Indra Ganesan College of Engineering, Trichy	National Conference	2014	Paper Presentation
World Class Curriculum design for ComputerScience	Bharathidasan University, Trichy	International Conference	2017	Participation
Internet of things and its Applications	St. Joseph's College, Trichy	Workshop	2017	Participation
Computing and Communication technologies	Jamal Mohammed College, Trichy	National Conference	2018	Participation
Networking Research and Innovation in HigherEducation for a sustainable Society: Challenges and channels	Holy Cross College, Trichy	International Conference	2018	Paper Presentation
Internet of Things in Smart Grid	National Power Training Institute, Neyveli	National Conference	2018	Participation
Real Time Applications using Next Generation IoT Technology	Bishop Heber College, Trichy	National Workshop	2020	Participation
Smart and Innovation Technologies-The Futureof Digital India	Holy Cross College,Trichy	International Conference	2020	Member
Energy Efficiencyin Sensor Network	Francis Xavier Engineering College, Tirunelveli	State level Webinar	2020	Participation
Recent Trends in Cloud Computing	Jamal Mohamed College, Trichy	Webinar	2020	Participation
Online Examination Tool	Bishop Heber College,Trichy	International Webinar	2020	Participation
Predatory Journals- A growing threat for academician	Bishop Heber College Trichy	Webinar	2020	Participation.
Andragogy ofOnline Teaching	IQAC, Holy Cross College, Trichy	Webinar	2020	Participation
Recent Insights on Cyber Security	Cauvery College For Women, Trichy	International Webinar	2020	Participation

Theme	Place	International /National / State level	Year	Resource Person Paper Presentation/ Participation
Benchmarking academic processes and practices inHigher Education	Centre for Education beyond curriculum, Christ University Bangalore	National Seminar	2023	Participation
Innovation Ambassador Training	MoE's Innovation cell and AICTE	Online training- Foundation Level	2023	certified
Chat GPT for Academics	St. Joseph College (Autonomous),Trichy	National level OnlineWorkshop	2023	participation
Integrating Artificial Intelligence for Cyber Security in the Digital Era.	Holy Cross College	NationalSeminar	2024	Participation
International Workshop on Unleashing Innovative technologies	Holy Cross College	International Workshop	2024	Organizer

Academic Responsibilities Within College

- ✓ Association In-charge :2014-2016,
- ✓ Alumnae Association Incharge:2014-2016,2019-2023
- ✓ AICTE In-charge -2016-2019
- ✓ HRD In-charge: 2019-2021
- ✓ PTA In-charge :2021-till date
- ✓ Fine-Arts In-charge: 2021-2022
- ✓ HCIIC In-charge: 2022-2023
- ✓ Student Support Progression Incharge-2016 to 2023
- ✓ Time Table Incharge:2015-2016,2021- till date
- ✓ NAAC Parameter: Curriculum Incharge-2021-till date

Journal / Articles/Book Chapters Published

✓ Metaverse Engineering Technologies and Tools chapter 2 in Metaverse Engineering: The Key Drivers, Platform, and Use Cases, CRC Press Taylors and Francis Group,2024(Accepted)

✓ Convergence of IoT, Artificial Intelligence and Block Chain Approaches' for Supply Chain Management, Chapter 2 in Block chain, IoT, and AI Technologies for Supply Chain Management, Apress, Springer 2024. EBook ISBN-979-8-8688-0314-4, Print ISBN 979-8-8688-0314-7

✓ Agro Health Analysis, Innovations in Real-Time Machine Learning, Scholars' Press, 2024, ISBN 978-620-6-76944-6.

✓ Optimizing AD Click Prediction Accuracy with Machine Learning Algorithms, Innovations in Real-Time Machine Learning, Scholars' Press, 2024, ISBN 978-620-6-76944-6

✓ Patent --Artificial Intelligent based Robot for Security Checkup -Granted

- ✓ Smart Energy Management with CPS: Security Challenges, Chapter -8 in Cyber –Physical Energy, systems: Challenges and Applications, **Wiley Scrivener Publishing**, 2023(in Press)

- ✓ A study on Artificial Intelligence of Things, Perspectives of Smart and Innovative Technologies, ISBN:978-81-953467-6-9

- ✓ "Framework of Enhanced QoS based Routing strategies for IoT Network", Recent advances in computer science and communication, (in communication)

- ✓ "CHS_QoS: Cluster Head Selection using QoS Properties for Heterogeneous IoT based WSN", Malaya Journal of Matematik-An International journal of Mathematical Sciences with Computer Applications, Vol. S, No. 1, pp. 298-303, 2021, UGC approved Journal.

- ✓ "MPTR_ QoS: Multi-Path Trust Routing Algorithm for Heterogeneous IoT based WSN", International Journal of Engineering trends and technology, Elsevier, Vol. 69.No. 3, pp. 58-63, 2021, Scopus Indexed Journal.

- ✓ "MPCR_ QoS: Multi-Path Constraint based Routing for improving QoS in IoT Network", Design Engineering, Elsevier, Vol. 2021. No.5, pp. 480-492, 2021, Scopus Indexed Journal.

- ✓ "Enhanced Quality of Service Strategy for Improving Network Coverage in Internet of Things Based Wireless Sensor Network", Journal of University of Shanghai for Science and Technology, Vol. 23, No.5, 2021, Scopus Indexed Journal.

- ✓ "An Analysis on Quality of Service based routing in Internet of Things", International Journal of Advanced Science and Technology, Vol. 29, No. 5s, pp. 488-496, Apr 2020, Scopus Indexed Journal.

- ✓ "An Analysis on Cluster Head Selection in Energy Efficient Clustering Algorithm in Wireless Sensor Network", International Journal of Advanced Science and Technology, Vol. 29, No. 5s, pp. 488-496, Apr 2020, Scopus Indexed Journal.

- ✓ A Study on Task Scheduling in Mobile Cloud Computing", International Journal of Scientific Research in Computer Science, Engineering and Information Technology (IJSRCSEIT), Volume 3, Issue 8, November-December 2018.

- ✓ "Comparison of JMS Product" International Journal of Scientific Research in Computer Science, Engineering and Information Technology (IJSRCSEIT), Volume 3, Issue 8, November-December 2018.

PERSONAL DETAILS

Nationality   : Indian
Religion   : Christian -Roman Catholic
Gender   : Female
Marital Status   : Married
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Address for Communication: No-39, Ganesh Nagar, III Street, Trichy-620 021
Mobile: 7402183354,   **Email – ID**: mercyvijay23@gmail.com, mercycs@hcctrichy.ac.in

I, hereby, assure that the aforesaid information is true to the best of my knowledge.

Place: Trichy
Date   : 25/10/2024   (Dr. P. Mercy)