

MADHI VADHANI . D

vadhaniece@gmail.com
Mobile no : 8056594366



Post Graduate in **Applied Electronics** Engineering with **13 years** of professional experience as **Assistant Professor** in the department of Electronics and Communication Engineering

EDUCATION

- ❖ **Pursuing PhD** in the Department of Electronics & Communication Engineering , Anna university in Chennai from July 2023 (PhD Confirmation Completed on March 11,2025)
- ❖ **M.E in Applied Electronics** with 9.09 CGPA in Sathyabama university, Chennai, India 2009
- ❖ **B.E in Electronics and Communication Engineering** with 71% in Meenakshi college of Engineering, Anna University, India **2006**.
- ❖ Completed Higher Secondary with 79 % marks in St Mary's Girls Higher Secondary School, Chengalpet in the year of 2001
- ❖ Completed SSLC with 88% marks in Sri Ramakrishna Mission Girls Higher Secondary school, Chengalpet in the year of 1999

EXPERIENCE

Designation	Institute	Total Experience (11.10 Years)
Assistant Professor	Sri Sai Ram Engineering College – Chennai (From June 27,2024 to Till date)	1 Year 8 months
Assistant Professor	Kings Engineering College – Chennai (From June 9,2022 to June 26,2024)	2 Years
Assistant Professor	PERI Institute of Technology - Chennai (From June 14,2012 to May 31 - 2019)	7 years
Lecturer	Asan Memorial College of Engineering & Technology - Chengalpet (From July 2011 to May 2012)	10 months
Lecturer	Dhanalakshmi Srinivasan College of Engineering & Technology – Mamallapuram (From June 2009 to June 2011)	2 years

ACADEMIC RESPONSIBILITY

- ❖ Time Table coordinator
- ❖ Department Unit test coordinator
- ❖ Class Advisor
- ❖ Department Workshop Incharge
- ❖ Exam cell coordinator
- ❖ Department Sports & College day Incharge

TECHNCIAL SOFTWARE EXPOSURE:

Technical software: Matlab, Xilinx Software
Operation system : Window versions 10,7 and XP
Office Tools : MS office (MS word, Excel & Power Point)

JOURNAL PUBLICATIONS:

1. "Sumrate Maximization by Optimal Precoder Design for MIMO Retransmission System." International Journal of Advanced Scientific Technologies, Engineering and Management Sciences (IJASTEMS) Published in volume 3, Issue 8, August 2017

2. " Analysis and Mitigation of harmonics in Medical Field." International Journal of Advance Engineering and Research Development (IJAERD), Published in volume 05 Issue 04, April 2018
3. Fuzzy C Means Clustering and Sea Lion Optimized Routing for Mobile Adhoc Networks in the International Journal of Intelligent Engineering & Systems ,vol.16,No.6,2023,held on September 12,2023
4. HRSHO: A hybrid rain optimized spotted hyena optimizer for efficient feature selection in CNN – based sinusitis classification, Journal published in the Biomedical Signal Processing and Control at science Direct,Journal homepage : WWW.elsevier.com/locate/bspc . 20 september ,2023
5. Hybrid Deep Learning Algorithm For MRI Brain Alzheimer's Disease Prediction,Published in 2023 International Conference on Energy , Materials and Communication Engineering ,ICEMCE 2023
6. ANFIS Grey Wolf Optimized And Secured Path Selection Algorithm For VANET Applications,Published in 2023 International Conference on Energy , Materials and Communication Engineering ,ICEMCE 2023
7. A Deep Learning Approach For Efficient Breast Cancer Diagnosis Using Hybrid CNN-BILSTM with Soft Attention Mechanism,Published in SSRG International Journal of Electronics and Communication Engineering,11(5),pp.130-138,2024

CONFERENCE ATTENDED

- 1.REAL TIME EXAMINE SUBJECT CRITERIA USING ILLUMINATION TECHNOLOGY in theNational conference on Pure Emphatic Research Innovations in Science and Engineering held on 7th April 2016 in PERI Institute of Technology
2. An ADJUSTABLE -SPEED PFC SEPIC CONVERTER FED BLDC MOTOR DRIVE USING FUZZY LOGIC CONTROL in the 3rd International Conference on Advance Research and Innovation inEngineering,Science,Technology and Management organized by ARS college of Engineering ,held on 25th March 2017
3. WELD POOL VISUAL TRACKING IN AUTOMATIC ARC WELDING USING GRAPH CUT SEGMENTATION in the International conference on informatics ,Robotics ,Construction & Communication held on 7th& 8th April,2018
4. Automated Gastric Cancer Detection and Classification from the Medical Image Using Enhanced CNN Model in the NCICT'25 – 10th National Conference on Information and Communication Technologies – SSN College of Engineering ,Kalavakkam held on 20 – 21 February,2025
5. Pathological Image Based Gastric Cancer Prognosis Using AI – Powered Deep Learning Techniques in the Two Day National Conference on AI Solutions for Sustainable Electronics and Wireless Systems (AISSEWS 2025) – MIT Campus , Anna University,held on 23-25 April, 2025

WORKSHOP ATTENDED

- 1.Attended one day Workshop on "Pspice& PCB design " organized by the Department of Electrical &Electronics Engineering inAsan Memorial College of Engineering & Technology held on 06/08/2011
- 2.Attended Two days Workshop on ENHANCING NETWORK SIMULATION THRU NS-2 conducted by Department of ELECTRONICS & COMMUNICATION ENGINEERING in Asan Memorial College of Engineering & Technologyheld on 3rd & 4th Feb,2012
- 3.Attended one day Workshop on COMMUNICATION & IMAGE PROCESSING USING MATLAB in PERI institute of technology held on 30th June 2017

FDP Participation:

1. Attended 3 days FDP on Emotional Intelligence , ICT Academy conducted by Kings Engineering College from 09.03.23 to 11.03.23
2. Attended one day seminar on outcome based Education , IQAC , Kings Engineering College , held

on 20.08.23

3. Attended 6 days FDP on Recent Trends in Modern Smart Intelligent Systems , Department of ECE , Dr.MGR,Educational and Research Institute from 08.05.23 to 13.05.23
4. Attended Two – Week Faculty Development Program (online Mode)on “Transforming Education Integrating OBE and NEP 2020 from 22 July to 2 August 2024,Organised by the Department of Electronics and Communication Engineering , CVR College of Engineering
5. Attended 6 Days – Online Faculty Development Program on “ Artificial Intelligence’s impact on Transforming software,Robotics,Electrical, Electronics & Mechanical fields held from 05th to 10th August 2024 organised by Dhannish Ahmed College of Engineering , Chennai
6. Participated in one week Faculty Development Program on Data Analytics using Python conducted by ICT Academy on 19 Aug 2024 to 23 Aug 2024 at Alpha College of Engineering,Chennai.
7. Attended Five days FDP on “ Exploring Artificial Intelligence : Trending Technologies” organized by the Department of Information Technology,DMI College of Engineering , Chennai , from 09.09.2024 to 13.09.2024
8. Participated in a one-week Faculty Development Program (FDP) on “Emerging Wireless Technologies for 6G” held during 6 January to 10 January 2025 organized by Department of Electronics and Communication Engineering ,CVR College of Engineering.
9. Attended 2 days Industry – Assisted Online Faculty Development Programme DEMYSTIFYING AI AND DATA SCIENCE organized by PALS and Meritus.AI on 23rd and 24th January 2025
- 10.One Week National Level Faculty Development Program on AI Tools Organized by BRAINOVISION SOLUTIONS INDIA PVT.LTD in association with ALL INDIA COUNCIL FOR TECHNICAL EDUCATION(AICTE) during the period of 17th to 21st February 2025
- 11.Participated in Six Days Online Faculty Development Program on “Intelligent VLSI : The Convergence of AI,Signal Processing and Computing “ organized by Department of RF and Communcation System , SIMATS Engineering , SIMATS, Thandalam,Chennai – 602105 during 07-04-25 to 12-04-25

NPTEL Participation Certificate:

S.No	Subject Name	Duration	Status
1.	Data Analytics with Python	12 Weeks (Jan – Apr 2025)	Elite
2.	Python for Data Science	4 Weeks (Jan – Feb 2025)	Successfully Completed
3.	Business Intelligence & Analytics	12 Weeks (Jan – Apr 2025)	Successfully Completed
4.	Deep Learning	12 Weeks (Jan – Apr 2025)	Successfully Completed

5.	Introduction to Machine Learning	8 Weeks (Jul – Sep 2024)	Elite
6.	Introduction to soft computing	8 Weeks (Jan – Mar 2024)	Successfully Completed
7.	Machine Learning and Deep Learning – Fundamentals and Applications	12 Weeks (Jul – Oct 2023)	Successfully Completed
8.	Digital Image Processing	12 Weeks (Jul – Oct 2023)	Successfully Completed
9.	Pattern Recognition and Application	12 Weeks (Jul – Oct 2023)	Successfully Completed
10.	Introduction to Internet of Things	12 Weeks (Jul – Oct 2023)	Elite

SUBJECTS HANDLED:

- Electro Magnetic Field (ECE) - 4 times handled - 92% Highest percentage
- Digital Signal Processing (ECE) - 4 times handled - 98% Highest percentage
- Digital Electronics (ECE)- 3 times handled - 91% Highest percentage
- Communication Engineering (EEE)- 1 time handled -100 % Result Produced
- Communication Theory (ECE) - 1 time handled-77 % Result Produced
- Digital Principles and System design (CSE) - 2 times handled -89% Highest Percentage
- Digital Logic Circuits (EEE) -1 time handled -79% Result Produced
- Digital Signal Processing (CSE) - 1 time handled -77 % Result Produced
- Digital Signal Processing (EEE) - 1 time handled - 75 % Result Produced

AREAS OF RESEARCH INTEREST

- Electro Magnetic Fields
- Digital Signal Processing
- Digital Electronics

PERSONAL DATA:

Father's name : Devaraju.R

Date of Birth : May 22, 1984

Age : 42

Gender : Female

Married Status : Single Mother

Language known : English, Tamil

Mail Id : vadhaniece@gmail.com

Mobile Number : 8056594366

Aadhar number : 4357 5204 5603

PAN number : AZPPM6993A

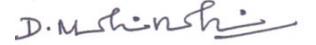
DECLARATION:

I hereby declare that the information furnished is true to best of my knowledge

Place :

Yours Sincerely,

Date :



(D.Madhivadhani)