BIODATA



Name :Dr.V.VINODHINI

Designation : GUEST FACULTY/ECE

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➢ **Research Area**: Image Processing, Artificial Intelligence ,Deep learning, IOT,EMBEDDED

➢ **Educational Qualifications**:

Qualification	**Department**	**University/ Board Studied**	**Year (From - To)**	**Percentage**	**Class**
Ph.D	COMMUNICATION SYSTEMS	Anna University Chennai	2022-2026	-	-
M.E	COMMUNICATION SYSTEMS	Anna University of Technology Trichy	2007-2009	74.26	FIRST CLASS
B.E	ELECTRONICS AND COMMUNICATION ENGINEERING	Annamalai University	2003-2007	7.6	FIRST CLASS
HSC	BIO MATHS	State Board	2003	77	FIRST CLASS
SSLC	NA	Matriculation	2001	75	FIRST CLASS

➢ **Experience: (16 Years 5 Months)**

Name of Company / Institutions	**Designation of Post**	**From**	**To**	**Experience in Year**
		DD-MM-YYYY	**DD-MM-YYYY**	
University College of Engineering, Ariyalur	Teaching Fellow	22.07.2013	31.12.2025	12 Y 5 M
Roever Engineering College Perambalur	Assistant Professor	01.06.2011	31.05.2013	2 Y
Dhanlakshmi	Lecturer	25.06.2009	20.05.2011	2 Y

Srinivasan Engineering College Perambalur				
		TOTAL EXPERIENCE		16 YEARS 5 MONTHS

- **Additional / Academic Responsibilities at University:**

Sl. No	**Designation**	**Period**	
		From	**To**
1.	Class In-charge	2013 2021	2017 2024
2.	Time Table In-charge	2013	2014
3.	Department Web Portal Co-ordinator	2017	2019
4.	Department Exam Cell Co-ordinator	2021 2024	2022 2025
5.	Student Counselor	2013	Till Date
6.	Department Placement and alumni Cell Co- Coordinator	2023	Till Date

- **Professional Activities:**

Sl.No.	**Designation**	**Period**	
		From	**To**
1	NBA Co-Coordinator, ISO Co-coordinator (DSEC,REC)	2009	2010
2	AICTE Co-ordinator (REC)	2010	2011
3	Student Counselor	2013	Till Date
4	Placement Co-coordinator	2022	2023
5	Class In-charge	2013 2020	2017 2024
6	Organized various programs like Symposium, Workshop ,Conference as a Co-ordinator	2010	2013
7.	Industrial Visit Co-ordinator	2015	2017

- **Completed B.E/M.E Projects:**
  - No of M.E Projects:14
  - No of B.E Projects:35

- **Sponsored Research Activities: NIL**

Details of awards:/achievements:

- Got Rs.6000 Cash price for ABOVE 95% university results in 3 subjects (DSEC).
- Won Best Paper Award in International Conference titled HMM & GMM based speaker Verification Systems using different feature Coefficients held at EGSP Engineering College Nagapattinam.
- Won Best Paper Award in International Conference titled Identifying Cracks in building Structures Using Deep Learning Algorithms held at Periyar Maniammai institute of science and Technology, Thanjavur.
- Got International Iconic awards for best faculty Outstanding academic Performance.

Details of Invited Guest lecture delivered:

- Gave guest lecture in Dhanalakshmi Srinivasan Polytechnic College under the topic "Recent trends in Communication"
- Gave guest lecture in Dhanalakshmi Srinivasan Institute of Technology Samayapuram under the Subject name "Communication Theory".
- Invited Guest speaker for FDP at St. Josephs college of Engineering and Technology Titled Intelligent Edge: merging AI and IoT FOR SENSOR SYSTEMS.
- Invited Guest speaker for FDP at Kalaignar Karunanidhi Institute Of Technology Titled "AIOT FEDERATED LEARNING AND SMART HEALTH CARE".

List of Seminar / Short Term Course /FDP/ Workshop attended:

- One day National level workshop on "image processing and pattern recognition" Organized by Center for Academic Excellence Anna University, Tiruchirappalli.
- One day workshop on "Practical Orientation towards innovation in Embedded and VLSI technologies" Conducted by VI micro systems private Ltd., Chennai at Saranathan College of Engineering.
- One Day National Level Seminar on "Communication Networks" (**COMNET)** at Dhanlakshmi Srinivasan Engineering College.
- One day national level workshop on Applications of "Signal and Image Processing" at Dhanlakshmi Srinivasan Engineering College(ASIP)
- One day State level Workshop on "Recent Trends in Embedded Systems" held at Roever Engineering College.
- One day National level seminar on "Security Issues of Optical Communication Network" at Dhanlakshmi Srinivasan Engineering College.

- Faculty Training Programme on “Instructional design and delivery System” conducted by National Institute of Technical Teachers Training and Research held at Dhanlakshmi Srinivasan Engineering College.
- Attended FDP Programme Titled “Embedded System design” conducted by ICT academy of Tamilnadu held at DSEC.
- 2 Days Workshop Titled “Writing Effective Conference Papers” Organized by IIT Bombay held at SASTRA university Thanjavur.
- Attended one week ‘TEQIP II SPONSORED FDP ON “DIGITAL COMMUNICATION” AT BIT Campus Tiruchirappalli.
- Attended one day workshop on “DSP and its applications” at University college of engineering Thirukkuvalai.
- Attended one day national level seminar on “Antenna and its Applications” at DSEC Perambalur.
- Attended one day workshop on “Photonics and its Applications” at UCE-Ariyalur.
- Attended one day national level workshop on “digital image processing and its applications” at University College of engineering Ariyalur on September 06th 2019.
- Attended one day workshop on “PCB DESIGN” at University College of Engineering Ariyalur.
- Attended Two days FDP on “Robotics Process and its automation” at Thiyagaraja College of Engineering Madurai Conducted by NAAN MUDHALVAN.
- Attended FDP named “4G/5G wireless communication networks” at university college of Engineering, BIT Campus Trichy conducted by NANN MUDHALVAN.
- Attended five days PDP on “Sensors and Instrumentation” at NITTR CHENNAI (ONLINE MODE).
- Attended five days PDP on PDP On “Information Security “at NITTR CHENNAI (ONLINE MODE).
- Attended five days PDP on “Modeling and Simulation using MATLAB and SCILAB” at NITTR CHENNAI (ONLINE MODE).
- Completed 12 weeks Course and FDP (NPTEL SWAYAM) Titled “**Computer Vision and Image Processing - Fundamentals and Applications**”.
- Completed 12 weeks Course and FDP (NPTEL SWAYAM) Titled “**Introduction to IOT and secured ELITE with Silver Medal “.**

- Attended Six Days Online ATAL FDP Titled " Harnessing AI for Medical Signal and Imaging Diagnostics"
- Attended Six Days Online ATAL FDP Titled "DRIVING THE FUTURE 2025-2030:SMART CITIES AND MOBILITY".

International Conferences Participated and Presented:

- "Improving the search efficiency using resource placement in structured peer to peer networks" at Dhanalakshmi Srinivasan Engineering College.
- "Comparison Of GMM & HMM based speaker Verification Systems using different feature Coefficients" at EGSP Engineering College Nagapattinam.
- 'IOT based Digital notice board" at Saranathan College of Engineering Trichy.
- Detection of surface cracks in building structures using efficient image Processing Algorithms at SRM Valliammai Engineering College Chennai.
- "Identifying Cracks in building Structures Using Deep Learning Algorithms" at Periyar Maniammai Institute of Science and Technology, Thanjavur.

Conferences Participated and Presented:

- "Performance evaluation of GMM based speaker verification systems" held at KLN College of Engineering.
- "CT and MRI image enhancement using multi variant quasi Laplacian mixture model".
- "Performance evaluation of sorted GMM based speaker verification systems" held at Christian college of engineering & technology.
- "Efficient Node Replacement Technique For Structured Peer to Peer Networks" held at Vellammal Engineering College.
- "Analysis of channel estimation for two way MIMO Relaying System" held at Saranathan college of Engineering.
- "Identification of cashew plants disease by using k-means clustering &SVM in image processing" at Kings College of Engineering.
- "Infrared Thermography Spotting Of Undercoating Corrosion Using Deep Learning" at GRT Institute Of Engineering And Technology.
- "Image Pre-Processing Algorithms for the Quality Detection of Different Tea Leaves Diseases" at Grace College of Engineering Thoothukudi.

NPTEL ONLINE COURSES ATTENDED:

- Attended and completed12 weeks course on “analog communication” AT SWAYAM NPTEL
- Attended and completed Course on Microprocessors And Microcontrollers (12 Weeks) on the SWAYAM platform.
- Attended and completed Course on Embedded System Design with ARM (8 Weeks) on the SWAYAM platform.
- Attended and completed course on Sensors and Actuators.
- Attended and completed course on ROBOTICS.
- Completed Robotics process and automation basic foundation course uipath academy.
- Completed 12 weeks Course and FDP (NPTEL SWAYAM) Titled “Computer Vision and Image Processing - Fundamentals and Applications”.
- Completed 12 weeks Course and FDP (NPTEL SWAYAM) Titled “Introduction to Machine Learning”.
- Completed12weeksCourseandFDP(NPTELSWAYAM)Titled “Cloud Computing” with ELITE
- Completed 12 weeksCourse and FDP (NPTEL SWAYAM) Titled “INTRODUCTION TO IOT” with ELITE and silver medal.
- Completed 12 weeksCourse and FDP (NPTEL SWAYAM) Titled “INTRODUCTION TO IIOT 4.0”with ELITE .
- Completed 12 weeks Course and FDP(NPTELSWAYAM)Titled “Quality Assurance with NAAC with 85%”.
- Completed 4 module course in NITTT and registered Next 4 modules .
- Registered 8 weeks course and FDP namely “Accreditation of Undergraduate Engineering Programme – As per SAR 2024-25”.
- Registered 12 weeks course and FDP namely “Artificial Intelligence and Open Source Tools for Teaching Learning Excellence”.

Patent:

IOT AND MACHINE LEARNING BASED DEVICE FOR WEATHER MONITORING Design No: 400568-001.

Academic Performance:

Question Paper setter for various universities and Autonomous Colleges

List of Books Published:

- Co-authored a book titled **“Deep Learning Algorithms and Techniques”** published through Scientific International Publishers ISBN No: 9789357578134.
- Co-authored a book titled **“Artificial Intelligence and machine learning”** published through Charulatha Publishers ISBN No: 9789371301299.

a. International Journals:

- Laxmikant, K., Arthi, A., **Vinodhini, V**., Natarajan, B., Bhuvaneswari, R., & Selvam, P. (2024, February). Deep Convolutional Neural Networks for Early-Stage Detection and Prognostication of Lung and Colon Cancer. In 2024 International Conference on Integrated Circuits and Communication Systems (ICICACS) (pp. 1-6). IEEE.

- Yugha, R., **Vinodhini, V.,** Arunkumar, J. R., Varalakshmi, K., Karthikeyan, G., & Ramkumar, G. (2022, November). An automated glaucoma detection from fundus images based on deep learning network. In 2022 Sixth international conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud)(I-SMAC) (pp. 757-763). IEEE.

- Amirthalakshmi TM, V Maheswaran.U,**Vinodhini.V**,Nagaraju. (2022). Classification of Age and Gender Based On Artificial Neural Network Using Haar Cascade Algorithm. Telematique, 1946-1962.

- Jayamani, K., **Vinodhini, V**., Gomathi, V., Vanaja, S., Kalaivani, S., & Chinnammal, V. (2021). A novel UWB microstrip patch antenna des for cardio activity monitoring application. Materials Today: Proceedings, 47, 340-344.

- Jayamani, K., **Vinodhini, V**., & Krishnan, R. (2020, November). Frequency Reconfigurable Antennas—A Contemporary Review. In International Conference on Futuristic Communication and Network Technologies (pp. 565-581). Singapore: Springer Nature Singapore.

- Abinaya, A., Radha, N., & Vinodhini, V. 2026 Optimized Polyphase FIR Filtering: A Pragmatic Approach for Next-Generation Wireless Systems. IEEE.

- Abinaya, A., Radha, N., Vinodhini, V., Rajapriya, S., Seshaiah, M. A., & Babitha Lincy, R. 2026 Design of Recursive Box Filter-based Bilateral Denoising System using QCA based Parallel Prefix Adder. IEEE.

- Vinodhini Veerasamy; Paramasivam, Suresh Kumar; Kavitha Ramaswami Jothi. (2025). Developed Improved Weighted Quantum Particle Swarm Optimisation with Deep Convolutional Neural Network Algorithm to Improve Automated Concrete Surface Defect Detection in Bridge Inspections. Traitement du Signal, 42(1), 291–302.

- Kumar, L., Arthi, A., Vinodhini, V., Natarajan, B., Bhuvaneswari, R., & Selvam, P. Deep Convolutional Neural Networks for Early-Stage Detection and Prognostication of Lung and Colon Cancer. IEEE 2024.

- S. Janani, P. Arivazhagi, V. Vinodhini, S. Kalairishi, S. Dinesh, and J. Mohamed Jaffir, "Design and Performance Evaluation of a Tethered Persistent Aerial Relay Node with Hybrid Power Failover for Disaster Communication," U.Porto Journal of Engineering, 2026.

DECLARATION:

I CERTIFY THAT THE INFORMATION FURNISHED ABOVE IS CORRECT TO THE BEST OF KNOWLEDGE AND BELIEF.