

Name: Dr J.ARUNARASI			
Designation:	Associate Professor		
Qualification:	M.E., Ph.D.		
Dissertation title	Performance Enhancement and analysis of wavelet based DS-CDMA system over AWGN and fading channels		
Area of specialization:	Wireless Communication		
Experience : (As on May 2025)	Industrial Experience		Teaching Experience
	-		16 Years, 5 Months
Number of workshop / FDP attended:	Number of Workshops		Number of FDPs
	10		16
Publications:	Conference		Journal
	National	International	National
	International	-	
Professional Body Membership:	IEEE Senoir Member (98075671), IETE(M-500024), ISTE(LM131458), IAENG(238985)		
Patents:	4		
Book Chapter:	1		
Educational Qualifications:	Course/Degree	Board/University/College	Class
	Ph.D (Wireless Communication)	Anna University, Chennai.	NA
	M.E. (Applied Electronics)	Thanthai Periyar Govt. Institute of Technology, Vellore. (Anna University)	First
	B.E (ECE)	Thanthai Periyar Govt. Institute of Technology, Vellore. (Madras University)	First class with Distinction

Funded Project Details (Ongoing):	<ul style="list-style-type: none"> ● IEEE HTB Tech4Good - 4.5 Lakhs ● One of the Principal Investigator in DST - FIST Project - 147 Lakhs
Patents:	<ul style="list-style-type: none"> ● Design patent on “IOT and Block Chain based data storage device”, Design No: 435003-001, 21/10/2024 ● Design patent on “ Artificial Intelligence and 5G based Network Hub”, Design No: 408920-001, 27/02/2024 ● A System for detection of breast cancer based on IOT and Machine Learning Algorithms, Published on 30/12/2022 ● A Power Generating Kite System - Production of Electricity from the Wind - 202041004990 Issued on Feb 14 2020
Guest Lectures:	<ul style="list-style-type: none"> ● Resource person at the FDP on” New Spectrum Usage And Radio Design Paradigms” - 10th April 2025. ● Delivered Lecture on, “Multiple Access Technique and Cellular Architecture” at Saraswathy College of Engineering and Technology, 6th May 2022.
Responsibilities / Accomplishments:	<ul style="list-style-type: none"> ● Department GATE Coordinator ● Year Coordinator for 2019 - 2023 Batch ● One of the incharge of NBA Criteria 3. ● Mentor for ECE Students (15 Students) ● Department Research Coordinator ● Course Coordinator, Course Moderator ● Achieved 100% result many times ● NPTEL Domain Certification – Data Science – Jan-Apr 2025 ● NPTEL Discipline Star - Jul-Dec 2024 ● Completed all 8 modules in NITTTR. ● Completed 12 courses in NPTEL ● Top 5 % in NPTEL,” Data Analytics with Python”.
Events Organized:	<ul style="list-style-type: none"> ● DLP on “New Developments in Mobile Broadcasting: India Positioned to Lead”, on 20th March 2025 ● Workshop on, “Deep Dive into 5G NOMA”, 11th Nov 2024 ● Session talk on, “ Implications of 5G Technology and its utilizations, 04/15/2024 ● IEEE BTS Society,” Quiz a Palooza II”, 21st April 2024 ● Organized a workshop on Network analyzer in Vel Tech Multitech Engineering College. ● Convener for Conference ICMEET’14 in Magna College of Engineering.

	<ul style="list-style-type: none"> Coordinator for conference ICMEET'13 in Magna College of Engineering. 			
Workshops/Seminars attended:	Sl. No	Title	Venue	Month/Year
	1	Unleashing AI tools for Research: A comprehensive Guide and Practical Hands-on Introduction to 40 Specialized Applications	Sri Sairam Engineering College	1 st Nov 2023
	2	Workshop on Outcome Based Education	Sri Sairam Engineering College	5 th April 2019
	3	Workshop on Fiber Optics	Vel Tech Dr. RR & Dr. SR Technical University	4 th March 2015
	4	Guidelines to Sponsored Research Projects	Dhanalakshmi College of Engineering	6 th May 2010
	5	MATLAB and its Applications	National Institute of Technical Teachers Training and Research	21 st and 22 nd May 2009
	6	Recent trends in Wireless Networks	Easwari Engineering College	22 nd August 2009
	7	Recent trends in Mobile Communication	Jerusalem College of Engineering	19 th - 20 th November 2009
	8	Workshop on Wireless Sensor Networks	SSN College of Engineering	18th to 19th April 2008
	9	Telecommunication and Information Technology	Falcon Electro-Tek Pvt. Ltd	7 th December 2007
10	Workshop on Emerging Trends in VLSI and ASIC Designs	Anna University	7 th April 2007	
	Sl. No	Title	Venue	Month/Year

FDP Details:

1	Data Analytics with Python	NPTEL - AICTE	Jan - Apr 2025
2	Business Intelligence & Analytics	NPTEL - AICTE	Jan - Apr 2025
3	Introduction to Machine Learning	NPTEL - AICTE	Jul-Sep 2024
4	Reinforcement Learning	NPTEL - AICTE	Jul - Oct 2024
5	Python for Data Science	NPTEL - AICTE	Jan- Feb 2024
6	Introduction to Machine Learning	NPTEL - AICTE	Jul - Sep 2024
7	Deep Learning	NPTEL - AICTE	Jul - Oct 2023
8	Introduction To Industry 4.0 And Industrial Internet Of Things	NPTEL - AICTE	Jul-Oct 2022
9	Patent Drafting for Beginners	NPTEL - AICTE	Jan-Feb 2022
10	Cloud computing	NPTEL - AICTE	Aug-Oct 2021
11	Ad-hoc and Wireless Sensor Networks	Sri Sairam Institute of Technology	22 nd - 27 th June 2020
12	Online Spoken FDP on Advance Communication Laboratory	PSNA College of Engineering and Technology	20 th - 27 th July 2020
13	Data Science for Engineers	NPTEL - AICTE FDP	Jul - Sep 2019
14	Robotics	Sri Sai Ram Engg. College	13 th - 18 th May 2019
15	Principles of Communication-I	NPTEL Online Course	Jan-April 2019
16	Computer Aided Design	Vel Tech Multitech Dr.Rangarajan & Dr.Sakuntala Engineering College	10 th – 18 th June 2015

	Sl. No	Title	Venue	Month/ Year
<p>Conference Details: International & National conference</p>	1	Voice Controlled Wireless Notice Board	International Conference on Communication, Computing and Internet of Things (IC3IoT)	Apr 2024
	2	Cancer Chemoradiation Powered by Nanotechnology: Realizing the Full Potential of Radiotherapy with Gold NP-BM	Intelligent Computing and Control for Engineering and Business Systems (ICCEBS)	Dec 2023
	3	Transforming healthcare with deep learning cardiovascular disease prediction	International Conference on Ambient Intelligence, Knowledge Informatics and Industrial Electronics (AIKIIE)	Nov 2023
	4	Radio frequency based communication on autonomous speed control of the automobiles in restricted areas using IoT	AIP Conference Proceedings	Aug 2023
	5	Fake Profile Identification in Social Network using Machine Learning and NLP	International Conference on Communication, Computing and Internet of Things (IC3IoT)	May 2022
	6	A New Threshold Calculation Approach in the Performance of Spread	International Conference on Advances in	Sept 2010

		Spectrum system using DD-DWT filter	Information and Communication Technologies	
Journal Details:	Sl. No.	Title	Journal Name	Volume/Date
	1	Wireless Bus Identification System for Visually Impaired Using RSSI – ZIGBEE	International Journal of Research and Analytical Reviews	May 2023
	2	Performance Investigation Of Electric Vehicle Based On Battery Management	Zeichen Journal	Feb 2023
	3	Implementation of Machine Learning Techniques for detection of Lung Cancer	Periodico Di Mineralogia	Jun 2022
	4	Performance analysis of multi-user DS-CDMA using wavelet based diversity schemes	Tierärztliche Praxis	2021
	5	Emerging trend in Inter-Train Communication System	Test Engineering And Management	March - April 2020 ISSN: 0193-4120
	6	Experimental investigation on inherent properties of Hydroxybutanedioic Acid treated banana/sisal fibers based hybrid composite	Materials Today: Proceedings	https://doi.org/10.1016/j.matpr.2020.02.708 Available online 25 March 2020
	7	Smart Industrial Automation Electrical Gripper	Journal of Research in Instrumentation and Control Engineering	Volume 5 Issue 1 Page: 18-27 May 2020
	8	A Neoteric FPGA Architecture with Memristor Based Interconnects for Efficient Power Consumption	Indian Journal of Science and Technology	Vol 9, No. 5 February 2016

	9	Efficient energy and power consumption of 3-D Chip Multiprocessor with NUCA Architecture	Indian Journal of Science and Technology	Vol 9, No. 2 January 2016
	10	An Optimal Energy Management System for Electric Vehicles using Firefly Optimization Algorithm based Dynamic EDF Scheduling	International Journal of Engineering and Technology	Vol 7 No 4 Aug-Sep 2015
	11	Performance Comparison of DS-CDMA system using Wavelet based shrinkage methods	International Journal of Applied Engineering and Research	Volume 10, Number 10, pp. 25773-25788, 2015
	12	Performance analysis of DS-CDMA system over AWGN and fading channels based on diversity scheme	Journal of Theoretical and Applied Information Technology	Vol. 52, Issue1, 10th June 2013
	13	Combined Wiener and Double Density Discrete Wavelet Filter Based Algorithm for Noise Reduction in CDMA Receiver	European Journal of Scientific Research	Vol. 53, Issue 2, pp.269-279, May 2011
	14	A New Threshold Calculation Approach in the Performance Enhancement of Spread Spectrum System Using Double Density Discrete Wavelet Filter	Communications in Computer and Information Science	Vol. 101, Part 3, pp.654-65, 2010

I hereby declare that the information provided above is true and correct.

Dr J ARUNARASI