

Name:Dr.K.Moorthi				
Designation:	Associate Professor			
Qualification:	B.E., M.E., Ph.D.			
Area of specialization:	IMAGE PROCESSING, VLSI			
Experience : (As on Jan 2026)	Industrial Experience		Teaching Experience	
	--		19 Years	
Number of workshop / FDP organized:	Workshops		FDPs	
	-		-	
Number of workshop / FDP attended:	02	25	4	
Publications:	Conference		Journal	
	National	International	National	International
	1	3	-	11
Professional Body Membership:	IEEE,ISTE			
Staff Achievements:	Received a Grant of 1 lakh from IEDC for students project “Pre-emptive signal switching for emergency vehicles using dynamic GPS”			

EXPERIENCE: ACADEMIC

S.No.	Name and Address of the Institution	Designation	Period of Experience
1	Adhiparasakthi Engineering College, Melmaruvathur	Lecturer	3 years 6 months (11.12.2006-01.06.2010)
		Asst. Prof.	11 years 3 months (01.06.2010-30.09.2021)

2	Sri Manakula Vinayagar Engineering College, puducherry	Asst. Prof.	8 months (01.10.2021- 30.05.2022)
3	Sri Sai Ram Engineering College, SaiLeo Nagar, West Tambaram, Chennai-600044.	Associate Prof.	23.06.2022- Till date

WORKSHOP / FDP / CONFERENCE:

S. No.	Name of the Program	Name of the Institution	No. of Days	Date
1.	Simulation of communication systems using MATLAB	NPTEL-AICTE	-	Jul-Oct 2025
2.	Universal Human Values I	AICTE	6	6 th to 10 th Mar 2023
3.	Universal Human Values II	AICTE	6	20 th to 25 th Mar 2023
4.	Quantum Computing and its Future Scope	Sri Sairam Engg. College, ATAL FDP	6 days	18 th to 26 th dec 2023
5.	Introduction to Industry 4.0 and Industrial Internet of Things	NPTEL-AICTE	-	Jul to Oct 2023
6.	CMOS Digital IC design	NPTEL-AICTE	-	Jan to Mar 2023
7.	Introduction to Internet of Things	NPTEL-AICTE	-	Jul to Oct 2022
8.	Recent trends in 5G Communication networks	Sri Sairam Engg. College	5 Days	26 th to 30 th dec 22
9.	Machine Learning and Deep Learning	SRM Institute of Science and Technology	5 Days	11 th to 15 th Oct 22
10.	Matlab Simulations of 5G Wireless Technologies	IIITDM, CHENNAI	5 days	28 th to 4 th March 2022
11.	Faculty Development Training Program on VLSI Design	Adhiparasakthi Engineering College	7 days	5 th to 12 th December 2014
12.	Mobile and Pervasive Computing	Anna University, MIT Campus	7 days	3 rd to 9 th June 2013
13.	Analog IC Design	Anna University, MIT Campus	2 days	14 th and 15 th September 2012
14.	Application of Digital Filters in DSP Problems	Adhiparasakthi Engineering College	12 days	May 3 to 15, 2012
15.	Advanced VLSI Design	SSN College of Engineering	3 days	Nov. 17 to 19, 2011
16.	Robotics	Adhiparasakthi Engineering College	2 days	Sep. 9 to 10, 2011
17.	Signal Processing using MATLAB	Sathyabama University	1 day	23 rd July 2011

18.	VLSI for Signal Processing	Anna University, MIT Campus	2 days	14 th and 15 th March 2011
19.	MIMO OFDM Wireless Systems	SRM University	1 day	28 th August 2010
20.	Design and Testing of VLSI Circuits	Adhiparasakthi Engineering College	2 days	18 th and 19 th February 2010
21.	Seminar on Embedded Systems using AVR Tools	Accent e Technology Pvt. Ltd.	1 day	30 th July 2009
22.	Seminar on Exploring MATLAB and its tools	Adhiparasakthi Engineering College	4 days	July 13 th to 16 th 2012
23.	Seminar on Exploring MATLAB and its tools	Adhiparasakthi Engineering College	5 days	August 6 th to 10 th 2012
24.	Emerging Trends in Wireless Embedded Systems	Adhiparasakthi Engineering College	1 day	4 th April 2009
25.	Recent Trends in VLSI and Embedded Systems	Adhiparasakthi Engineering College	2 days	27 th and 28 th July 2007

CONFERENCE

S. No.	Title	Month/Year
1	Low Power Keeper Technique for Dynamic CMOS Logic Circuits- International Conference on 2 nd World Conference on Applied Sciences Engineering and technology, WCSET 2013	8 th and 9 th March 2013
2	FPU for Coarse Grain Reconfigurable Architecture- International Conference on Communication and Signal Processing (ICCSP 2012)	4 th and 5 th April 2012
3	Coarse Grain Reconfigurable Architecture for Multi domain applications- International Conference on Futuristic Trends in Electronic Engineering	28 th and 29 th January 2012
4	Neural Network Controller for UPS Inverter Applications - ETES 2006, Nooral Islam College of Engineering	10 th and 11 th March 2006

Publications:

S. No	Title& Journal Name	Vol. / Date
1	Optimized LQR Control for Dual-Input Boost Converter in Hybrid PV-Wind System for Remote Telephony Applications, Studies in Informatics and Control	34(4) 53-62 December 2025

2	De-noising of salt and pepper noise using deep learning-based alpha-guided grey wolf optimization, Applied Soft Computing.	Volume 130, November 2022
3	Removal of Salt and Pepper Noise from SAR Images Using Optimized APCNN in Shearlet Transform Domain, Arabian Journal of Geosciences	Volume 14, issue 6, March 2021
4	Removal of High Density Impulse Noise using IAgGWO-APCNN filtering in Transform domain, Wireless Personal Communications	November 2021
5	A Comparative Study on FIR Filters for Reconfigurable Applications, International Journal of Information and Communication Sciences	vol.3, No.1, ISSN: 2575-1700, 2018
6	Buffer aided relaying system with energy harvesting nodes, International journal of Engineering Sciences and research technology	Page 183-189, ISSN: 2277-9655, 2015
7	"Performance analysis of wireless cooperative network for decode-amplify and forward relaying with energy harvesting constraint", International journal of Engineering sciences and research technology	page 470-476, 2015, ISSN:2277-9655.
8	"VLSI Implementation of 4x4 MIMO SC-FDMA transceiver for low power applications" international journal of applied Engineering research,	volume 10 (5),page 11835-11852, 2015, ISSN: 0973-4562.
9	" Area efficient, low power, high performance cached FFT processor forMIMO OFDM application"	volume 10 (5), page:11853-11868, 2015,ISSN:0973-4562.
10	"coarse grain reconfigurable floating point unit", International journal of innovative research in information security (IJIRIS)	Volume 1 and issue 4, page1-5, 2014,ISSN:2349-7009.
11	"Reversible watermarking based on encryption image classification anddynamic color techniques" in International journal of Innovative research in sciences Engg. and tech.	February 2014

Books Published

- Dr.J.Raja, Dr.P.Mangayarkarasi, K. Moorthi "Digital Signal Processing" Charulatha Publications. R2013.
- Dr.J.Raja, Dr.P.Mangayarkarasi, K.Moorthi"Signals and Systems"Charulatha Publications. R2013.
- Dr.J.Raja, Dr.P.Mangayarkarasi, K. Moorthi "Wireless Communication" Charulatha Publications. R2013.
- Dr.J.Raja, Dr.P.Mangayarkarasi, K. Moorthi "Electromagnetic Fields" Charulatha Publications. R2013.
- Dr.J.Raja, B.Ganesamoorthy, K. Moorthi "VLSI Design" BKF publishers. R2013