


Name:S.Saranya				
Designation:	Assistant Professor			
Qualification:	M.E.Ph.D. (Pursuing)			
Area of specialization:	VLSI DESIGN			
Experience : (As On September 2020)	Industrial Experience		Teaching Experience	
	NIL		8.2 YEARS	
Number of workshop / FDP attended:	Number of Workshops		Number of FDPs	
	3		10	
Publications:	Conference		Journal	
	National	International	National	International
	3	6	NIL	4
Patents:	National		International	

	NIL	NIL		
Professional Body Membership:	NIL			
Staff Achievements:	<p>Got pass percentage of 100% in Digital signal processing.</p> <p>Got pass percentage of 100% in signals and systems</p>			
Workshop Details:	Sl.No.	Title	Venue	Month/Year
	1	Industrial Automation	Tagore Engineering College	12 th March/2011
	2.	Analog and Digital IC Design using CADENCE tools	Chettinad College of Engineering and Technology	7-8 october/2013
	3.	Training cum orientation workshop in faculty development	Indira Gandhi College of Engineering and Technology for Women	19 th – 26 th June/2015

FDP Details:	Sl.No.	Title	Venue	Month/Year
	1.	FDP on “Internet of Things”	Sri Sairam Engineering	23 rd -24 th November/2016
	2.	National Level FDP on “Teaching Excellence in Engineering and Management curriculum”	Sri Sairam Engineering	20 th -21 st June/2016

		FDP on Web Application security		
	3.	FDP on Data Science using Python	Jeppiaar Institute of Technology	27 th -28 th May 2020
	4.	FDP on “Recent trends in information, computing, communication and Teaching methodology competency	Jeppiaar Institute of Technology	18 th -22 nd May 2020
	5.	FDP on “Next Generation Intelligence”	Sri sairam Engineering College	4 th to 17 th May 2020
	6.		St. Peter’s Institute Of Higher Education And Research	20 th May to 25 th May 2020
Conference Details:				

Sl. No.	Title	Venue	Month/Year
1.	Memory based realisation of FIR digital filter using OMS scheme	SMK Fomra Institute of Technology	3 rd April/2012
2.	Synthesis and simulation of hyperbolic tangent activation function using hybrid approximation in VLSI	Syed Ammal Engineering College	30 th Jan-1 st Feb/2014
3.	Implementation of PWL and LUT based Approximation for Hyperbolic Tangent Activation Function in VLSI A Novel Algorithm for Computing 8 Point DCT	Adhiparasakthi Engineering College	3 rd -5 th April/2014

	4.	Efficient VLSI implementation of fast radix-2 DCT	A.C.T College of Engineering and Technology	9 th -10 th April/2015
	5.	Auto Theft Prevention using Gravitational Lock	Indira Gandhi College of Engineering and Technology for Women	20 th March/2015
	6.		Indira Gandhi College of Engineering and Technology for Women	20 th March/2015

	7.	Traffic density analysis using background subtraction algorithm	St. Joseph college of Engineering	22 nd March/2019
	8.	Cost effective smart home based on FPGA	St. Joseph college of Engineering	22 nd March/2019
	9.	Driverless vehicle for Garbage Collection Raspberry Pi Based Smart Walking Stick for Visually Impaired Person Personality	Sri Sairam Engineering College Musaliar College of Engineering and Technology, Pathanamthitta, Kerala. Sri Sai Ram	20 th to 22 nd February 2020 24th & 25th Sep 2021

		<p>Prediction Through CV Analysis using Machine Learning Algorithms for Automated E-Recruitment Process</p>	Engg. College	16th & 17th Dec 2021
		<p>Arduino Based Circuit Breaker for Power Distribution Lines to Enhance the Safety of Lineman</p>	Francis Xavier Engineering College, Tirunelveli	10th & 11th Feb 2022
		<p>A Novel Algorithm with Complexity Reduction for Multimedia Applications</p>	Sri Sai Ram Engg. College	10th & 11th March 2022
		<p>Identification of</p>		

		<p>Currency Note for Blind People</p> <p>Smart Guiding Assistant for Visually Impaired using Raspberry Pi</p> <p>Smart Blind Cane for Blind and Deaf People with a Safety Trigger</p> <p>Cloud Assisted IoT Enabled Forest Fire Detection System</p>	<p>Symbiosis Institute of Technology, Pune</p> <p>Sri Sai Ram Engg. College</p> <p>Sri Sai Ram Engg. College</p> <p>Sri Sai Ram Engg. College</p>	<p>21st & 22nd June 2022</p> <p>09th Nov to 10th Nov 2022</p> <p>08th Dec to 09th Dec 2022</p>
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Journal Details:	Sl.No.	Title	Journal Name	Volume/ Date
	1.	Synthesis and simulation of hyperbolic tangent activation function using hybrid approximation in VLSI	International Journal of Electrical and Communication Engineering for Advanced Research	Vol. 2, SP-1, Feb. 2014
	2.	Traffic density analysis using background subtraction algorithm Cost effective	International Journal of Scientific Research and Review International	Vol. 8, Issue 3, March 2019

	3.	smart home based on FPGA	Journal of Scientific Research and Review	Vol. 8, Issue 3, March 2019
	4.	Traffic Density Analysis Using Canny Edge Detection Algorithm	Test Engineering and Management	Volume 82 Page Number: 16859 - 16863 Publication Issue: January - February 2020
		Zigbee based Automation Systems for Homes with the Deployment of Smart Sensors	Materials Today: Proceedings (SCOPUS INDEXED)	https://doi.org/10.1016/j.matpr.2021.01.043
		Driverless Vehicle for Garbage Collection	Materials Today: Proceedings (SCOPUS INDEXED)	https://doi.org/10.1016/j.matpr.2021.01.044
		Personality Prediction Through CV	IEEE Xplore Digital Library	1.044Ele

		Analysis using Machine Learning Algorithms for Automated E-Recruitment Process	(SCOPUS INDEXED)	ctronic ISBN: 978-1-6654-1447-0,
		A Novel Algorithm with Complexity Reduction for Multimedia Applications	IEEE Xplore Digital Library	DOI: 10.1109/IC
		Smart Footwear for Patients with Diabetic Neuropathy	Indian Journal of Natural Sciences	Electronic ISBN: 978-1-6654-7995-
		A Smart Navigation Gadget for Visually Impaired People	Indian Journal of Natural Sciences	Electronic ISBN: 978-1-6654-7995-
		Arduino Based Circuit Breaker for Power Distribution Lines	Lecture Notes on Data Engg. and Communications Technologies	Volume 131, https://doi.org/10.1

		to Enhance the Safety of Lineman Raspberry Pi based Smart Walking Stick for Visually Impaired Person	AIP Conference Proceedings	007/978-981-19-1844-5_55 20 August 2022, https://doi.org/10.1063/5.0103097
Patent Details:	Sl.No.	Title	Country	Applied Date
	1	An Internet of Things and Machine Learning Based Self-Driven Warehouse Robot Vehicle	India	15.05.2022

Additional Details:

- Delivered a Workshop on the topic “**Verilog HDL design based entry and simulation** “ in an International conference on communication, computing and internet of things