Name:	S.USHA			
Designation:	Associate Pr	ofessor		
Qualification:	M.E. (Ph.D.))		
Area of specialization:	EMBEDDED SYSTEM TECHNOLOGIES			
Experience : (As On Dec. 2022)		ial Experience		Experience
Number of workshop / FDP	4 YEARS 23 YEARS Number of Workshops Number of FDPs			
attended: Publications:	Co	15 onference		27 I rnal
	National	International	National	International
	12	6	4	9
Professional Body Membership:	Senior Member of IEEE, Fellow of IETE , Life Member of ISTE ,			
Trainings and Courses Attended regarding Accreditation	Member of IEI and IAENG Completed 1. Accreditation and Outcome based Learning course 2. NBA Accreditation and Teaching Learning in Engineering 3. Outcome based Pedagogic principles for Effective Teaching 4. Internal Auditor Training Course on Educational Organizations Management Systems(Based on ISO 21001:2018 Standard) 5. Attended Technical Workshop on Management System Auditing ISO 19011:2018 6. Acted as a resource person for Accreditation criteria 1 preparation.			

	7. Audited the departments for Accreditation related activities.				
Staff	Achieved 100% result many times				
Achievements:	Ranked one among top 2% in NPTEL Digital Circuits,				
reme vements.	5 % in NPTEL Embedded system design				
	CMOS digital VLSI, Design and Analysis				
	of VLSI Subsystems and many VLSI courses				
	Completed more than 20 courses in Coursera , 5 courses in Futureskills ,				
	Guvi, ICT Academy				
	Co-ordinated FDP's, Workshops, Conferences, Symposium etc.				
	Acted as a Reviewer, Resource person and Session Chair				
	Onboard member of two private companies				
	Department NBA and NAAC coordinator				
	Course Coordinator, Course Moderator, Embedded -SIG Head.				
	Received National Educator Award from I2OR				
	Completed NITTTR MENTORSHIP CERTIFICATION – July 2021				
	Completed all 8 modules in NITTTR.				
	Received NITTT Achiever Award				
	Fund of \$1000 is approved under IEEE CASS Educational Initiatives.				

Workshop	Sl. No.	Title	Venue	Month/Year
Details:	1	Industry Institute Interaction	Anna University	5 th Sep'2006
	2	Matlab and its applications- Raguram Associates	Sri Sai Ram Engg. College	26th July2007 to 27 th July2007
	3	Emerging trends on high-end FPGA's	Anna University	10th Dec'2010 to 12 th Dec'2010
	4	Seminar on VLSI Design	Hotel Rain tree, Anna Salai, Chennai -2.	7 th Sep'2012
	5	Recent trends in Antennas for Multifield Applications	Sri Sai Ram Engg. College	27 th Dec'2012 & 28 th Dec'2012
	6	Entrepreneurship Summit 2013	Sri Sai Ram Institute of Management Studies	8.1.13 – 10.1.13
	7	R&D Proposal writing for Faculties	Sri Sai Ram Engg. College	12.06.20

8	Workshop on National Initiative for Technical Teachers Training (NITTT)	NITTT	20.02.20
9	Advancements in Embedded System and Software Design"	SSN College of Engg.	31.7.20 & 1.8.20
10	Webinar on CAD tools for VLSI Design	Kamaraj College of Engineering and Technology	13.06.20
11	Webinar on Article Writing and Journal Publications	Kings Engineering College	17.07.20
12	Workshop on PCB Design	Kings Engineering College	19.06.20
13	Hands on workshop on Routing and Switching concepts in Data communication and Networking using Cisco Packet Tracer	Sri Sairam Enginnering College	1.12.22 to 2.12.22
14	Latest Trends in VLSI Devices, Circuits and Tools	NATIONAL INSTITUTE OF TECHNOLOGY DELHI	19th to 24th September, 2022
15	Certficate course on Digital Teaching Techniques	R systems Women Educators Program	02.02.23 to 17.02.23

FDP Details:	Sl. No.	Title	Venue	Month/Year
	1	FDP on Digital Communication	SSN College of Engg.	24th Nov'2003 to 29 th Nov'2003
	2	FDP on Mechatronics	Crescent Engg. College	24th May-2004 to 29 th May- 2004

	Work life balance	Sri Sai Ram	16th Feb'12 to 22^{nd}
3	for Engineering and Management Faculty	Engg. College	Feb'12
4	Role of Academic Excellence in Developing World Class Higher Learning Institutions and Faculties	Sri Sai Ram Engg. College	12 th Dec'12
5	FDP on Embedded Systems with ARM 7 Microcontroller	Sri Sai Ram Engg. College	25th June'15 & 26th June'15
6	FDP on Embedded and Real time systems	Sri Sai Ram Engg. College	06th June'16 to 13th June'16
7	FDP on Outcome Based Pedagogy	IIT, Chennai	13th Nov'18 to 15th Nov'18
8	FDP on Outcome based Pedagogic principles for effective teaching	IIT, Kanpur	Aug – Sep'18
9	FDP on Entrepreneurship career development program	SIMS	08/04/19 TO 12/04/19
10	FDP on Outcome based Education	Sri Sai Ram Engg. College	5th Apr'19
11	FDP on CMOS Digital VLSI Design	IIT, Karagpur	Feb-Apr'19
12	Organized FDP on CMOS Analog IC Design	Sponsored by Anna University	25.11.19 to 30.11.19
13	Online spoken FDP on Advanced Communication Laboratory	PSNA College of Engg. & Technology, Dindugal	20.07.20 to 25.07.20
14	FDP on Virtual Labs	IIT PALS	24.8.20 to 28.8.20
15	"FPGA for Low Power IoT"	SRM VALLIAMMAI	06.12.2021 to 11.12.2021.

		ENGRIEERDIG	
		ENGINEERING	
		COLLEGE	
	FDP on "Design	University	2020-
16	Thinking"	College of	10-12 to 2020-10-16
10		Engineering(A),	
		JNTUK.	
	FDP on "Artificial	Sri Sairam	2020-12-7 to 2020-12-11
17	Intelligence"	Engineering	
		College.	
	FDP on "Artificial	at Indian Institute	2020-10-19 to 2020-10-23
18	Intelligence"	of Technology	
10	interingence	Patna.	
	Online FDP on	Sri Sairam	2020-11-30 to 2020-12-4
19	"Internet of Things	Engineering	2020-11-50 to 2020-12-4
19	_		
	(IoT)"	College.	02/01/2022 / 07/01/2022
20	FDP on "Computer	at IIT Tirupati.	03/01/2022 to 07/01/2022
20	System Design"		
	FDP on "Research	Government	2021-08-02 to 2021-08-06
			2021-08-02 to 2021-08-06
2.1	Issues	College of	
21	in VLSI Design	Engineering	
	and Testing"	Srirangam.	
	SciLab	Information	25/04/2022 to 29/04/2022
	Programming	Management and	
22		Emerging	
		Engineering	
		Department	
	5-day Face-to-Face	at Sri Sairam	26th July to 30th July 2022
	UHV-II FDP	Engineering	5 5
23		College	
		Autonomous,	
		Chennai	
	FDP on SOC	St. Joseph's	20.07.22 to 22.07.22
	Design	college of	20.07.22 10 22.07.22
24	Methodologies		
∠4	e	Engineering	
	using INTEL		
	FPGA		20.01.02 / 04.02.02
	Innovation in	Paavai	30.01.23 to 04.02.23
	Mentoring	Engineering	
25	pedagogy and	College	
20	incorporation of		
	ICT Techniques in		
	Education		
	Recent trends in	Sri Sairam	26.12.22 to 30.12.22
26	5G Communication	Engineering	
	Networks	College	
	1.00000110		1

	27	Quantum Computing and its future scope	ATAL FDP	18.12 23 to 26.12.23
Conference	Sl. No.	Title	Venue	Month/Year
Details:	1	National Conference on Emerging Trends in Communication "Performance Comparison of Packet scheduling algorithms in Mobile Adhoc Networks	Dhanalakshmi Srinivasan Engineering College	28th Feb 2007
	2	AICTE Sponsored International Conference on Innovative computing, Information and Communication Technology (ICICT'09)	Sri Sairam Engineering College	16 to 18 Dec 2009
	3	National Conference on Advances in Electrical and Electronics Engineering-2013 Adaptive runtime reconfigurable wireless sensor nodes based on dynamic data aggregation	Sri Venkarteshwara college of Engg.	15.3.13 Page 6
	4	National Conference on Advanced Communication & Computing Techniques NCACCT'13 "Reconfigurable wireless sensor Networks	Sri Sairam Engineering College	18-19 th March 2013

5	First National Conference on Recent Trend in Information Technology NCRTIT 2012 " A cost Effective Automatic Antifreeze fluid sprinkler for Railway Coal Conveyors " G. Sudhakar, Ms. S.Usha, Page No. 155-158	RMK College of Engg and Tech.	20th Feb 2012
6	Research Trends in Electronics and Communication, " Implementation of speed control of Brushless DC motors using IOPT Petri Net models	St.Joseph's College of Engineering	21 st Mar'2014
7	5 th National Conference on VLSI, Embedded, Communication and Networks(VECaN- 2014) Speed Control of Motors using IOPT tools	, Easwari Engineering College	17.4.14
8	Advanced Communication & Computing Techniques	Sri Sairam Engineering College	18th Mar'2013 & 19 th Mar'2013
9	Emerging Research & Advances in Mechanical Sciences" Vehicle Collision Avoidance with adaptive cruise control	Velammal Engineering College	22 nd Mar'2013

10	Future Proof your code with the latest co-processor	Taj Connemara, Binny Road, Chennai -2.	18 th Sep' 2013
11	National Instruments symposium 2014	Hotel Radisson Blu, Chennai	9 th Sep' 2014
12	Advanced Communication & Computing Techniques	Sri Sairam Engineering College	11 th April 2014
13	Construction, Computing, Control, Communication and Manufacturing, " Alert System for forest animals to avoid from Train Accidents, R.	SRS College of Engineering and Technology	23rd Feb'2015 to 28th Feb'2015
14	5 th International Conference on Science and Innovative Engineering 2015 Alert system for Forest Animals to avoid from train accidents,	Jawahar Engineering College	5.4.15 ISBN 978-81-904760-7-2
15	First International Conference on Recent Trends in Enigineering and Technology (ICRTET-16) Paper titled Prediction of Insulation Failure in Transformer winding using Signature analysis"	St.Joseph's Instituute of Technology	28-29 th April 2016
16	International Conference on Communication, Computing & Internet of Things (IC3IOT 18)	Sri Sairam Engineering College	15-17th Feb 2018

17	3rd International Conference on Computational Intelligence & IoT "Performance Analysis of Three Operand Binary Adders Using Parallel Prefix Adders for High Speed and Area Efficient Implementation"	North Eastern Regional Institute of Science and Technology, Nirjuli, Arunachal Pradesh	24th February to 25rd February 2023.
18	ICNGWN2023 Design and comparison of 24 bit three operand adders using parallel prefix methods for efficient computation	Sri Venkateswara college of Engineering	October 19th-20th, 2023

Journal Details:	Sl. No.	Title	Journal Name	Volume/Date
	1	Cloud Based Reconfigurable DC Motor Controller Code Design Using IOPT models	International Journal of Research in Engg. And Advanced Technology	Volume 1, Issue 5, Oct - Nov 2013 ISSN: 2320-8791
	2	Real time System for Monitoring and Improving the flow of sewer system, M.K. Elango and S.Usha	International Journal of Emerging Technology & Advanced Engineering	Volume 4, Issue 2, February 2014 ISSN:2250-2459
	3	Alert System for forest animals to avoid from train accidents R.Vinoth and S.Usha	International Journal of science and innovative engineering and technology	Volume 2 May2015 issue ISBN 978-81-904760-7-2
	4	"Prediction of insulation failure in transformer winding using signature analysis."	SS International Journal of Multidisciplinary Research [SSIJMR].	Volume 2 Issue 6, 2016 E-ISSN: 2395-7964 Page No. 68

	5	Optimized BPSK and QAM Techniques for OFDM systems	IJCTA, International Science Press	2016 ISSN: 0974-5572; pp:2759-2766
	6	Mechanism of 3 DOF robotic needle steering model using Labview	International Journal of Recent Engineering Research and Development	Vol. 02, Issue 06, June 2017 ISSN: 2455-8761 PP. 01-08
	7	IOT Based Anti-Theft Protection And Continuous Monitoring System For ATM	THINK INDIA Journal	April -June 2019 ISSN:0971-1260
	8	Waiter robot with billing system	THINK INDIA journal	April -June 2019 ISSN:0971-1260
	9	Process Automation in RTO offices for issuing Driving Licences	Studies in Indian Place Names (UGC Care Journal)	ISSN: 2394-3114 Vol 40 issue 1 (s1) January 2020 Page No. 54-59
	10	DOMOTICS BASED ON SEARCH ASSISTANT	Studies in Indian Place Names (UGC Care Journal)	ISSN: 2394-3114 Vol 40 issue 1 (s1) January 2020 Page No. 29-38
	11	Search Assistant Based Home Automation	INTERNATIONAL JOURNAL OF ELECTRONICS, COMMUNICATIO N & INSTRUMENTATI ON ENGINEERING RESEARCH AND DEVELOPMENT (IJECIERD); "	ISSN (ONLINE): 2249-7951; ISSN (PRINT): 2249-684X; IMPACT FACTOR(JCC) (2020): 8.2083; INDEX COPERNICUS VALUE (ICV) - (2016): 61.75; NAAS RATING: 2.92; VOL - 10, ISSUE - 2; EDITION: DEC2020 Page No. 21-28

12	A novel algorithm with complexity reduction for Multimedia Applications using 8 point DCT	International conference on Communication, computing and Internet of Things	DOI:10.1109/IC3IOT539 35.2022.9767964
13	Energy efficient Spatial Modulation in Wireless Sensor Networks	International conference on Communication, computing and Internet of Things	DOI:10.1109/IC3IOT539 35.2022.9768000

BOOK CHAPTER:

Societal and Ethical Implications of Robotics "ESN Publications.DOI/ISBN Number: 978-93-90781-09-6 Volume/Issue:1/1, Year published: February 2021

Patent Details:

1. A Method And Device For The Deformation Of The Waste Containers Through The Pneumatic Operated

Application No.202041052263 A Publication Date : 11/12/2020

- 2. Security Tracking Big Data Processing System with Cloud Computing Application No.202241010451 A Publication Date : 18/03/2022
- 3. Computational Iot Framework Based On Smart And Low-Cost Devices For Medical Image Segmentation

Application No.202341062364 A Publication Date : 06/10/2023

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

Jushe

S.USHA