Name:	
	  N SHIVAANIVARSHA
Designation:	ASSOCIATE PROFESSOR SRI SAIRAM ENGINEERING COLLEGE
Qualification:	B.E,M.E,(PhD)
Area of specialization:	APPLIED ELECTRONICS

Experience : (As On Feb 2025)	**Industrial Experience**		**Teaching Experience**	
	9 Months		**23 Years 10 Months**	

Number of workshop / FDP attended:	**Number of Workshops**		**Number of FDPs**	
	19		**32**	

Publications:	**Conference**		**Journal**	
	National	**International**	**National**	**International**
	13	**15**	**-**	**32**

Patents:	**National**	**International**
	07	**-**

Professional Body Membership:	IETE – M 231947
	ISTE – LM 131451
	IEEE- SM 98060050
	International Association of Engineers(IAENG)- M 271814

	Institute of Research Engineers and Doctors (IRED) – AM2020112805
	Institute for Engineering Research and Publication(IFERP)-PMIN25371649
Staff Achievements:	● Completed NPTEL Course on **Integrated Circuits, MOSFETS, Op-Amp and their Applications with ELITE certification** ● Completed NPTEL Course on **Fabrication Techniques for MEMS-based Sensors: Clinical Perspective with TOP 1% ELITE certification** ● Completed NPTEL Course on **Outcome Based Pedagogic Principles for Effective Teaching with ELITE certification** ● Completed NPTEL Course on **Electronic Systems for Cancer Diagnosis with ELITE certification** ● Completed NPTEL Course on **Introduction to Internet of Things with GOLD - ELITE certification** ● Completed NPTEL Course on **Cloud Computing.** ● Completed NPTEL Course **on NBA Accreditation and Teaching – Learning in Engineering.** ● Coordinator for the Workshop on **Sensor Network Platform and Tools** Conducted on 24.10.20 ● Completed NPTEL Course **on Sensors and Actuators-April-2021.** ● Completed NITTTR Module 7 on **Creative problem solving, innovation ,and meaningful R&D** - Sep-2021. ● Attended Faculty Industrial Training Program at **I.P.L. PRODUCT**S, Thirumudivakkam, from **06.06.2022 to 11.06.2022**. ● Completed NITTTR **Modules 2,3 4 and 8** - Aug-2022. ● Delivered lecture on **Sensor Network Platforms & Tools** at Sri Sairam Engineering College on 17.11.22 ● Completed NPTEL Course **on IIOT 4.0- Nov-2022.** ● **SIH 2023** Hardware Edition Mentor. ● Received **Data Science Domain Scholar** from **NPTEL.** ● My Team won the First Prize in **SIH 2023**, Under the **SIH** Senior edition.

	● Received Student Project funding **(IEEE SPF 2024)** from IEEE Madras Section. ● Received **Best Mentor 2024** from Sri Sairam Engineering College.		
Workshop Details:	**Sl. No.**	**Title**	**Venue**	**Month/Year**
	1	Academic for excellence.	MNM Jain Engineering College	22 July 2006
	2	Recent Trends in Wireless Information Networks and System	Sri Sairam Engineering College	1st February 2008
	3	High Speed Digital Design and Testing	MIT Campus	23rd October 2009
	4	Research Methodologies in next generation wireless network using opnet	Sri Sairam Engineering College	19.08.2010 to 21.08.2010
	5	Next generation wireless networks	IE(I),Chennai	5th March 2011
	6	Quality management System and Audit training	Sri Sairam Engineering College	11th Oct & 12th Oct -2011
	7	Wireless Communication and Radiating Systems	Sri Sairam Engineering College	21st & 22nd March 2011
	8	OPNET Simulator	Sri Sairam Engineering College	21st March 2012
	9	MEMS technology and its Applications	Raja Lakshmi Engineering College	28th and 29th March 2012
	10	Entrepreneurship Summit	Sri Sairam Engineering College	8th-10th –January 2013
	11	Embedded system application using ARM	VIT,Chennai	13 th December, 2013

	12	Training on Quality Management System and Audit training	Sri Sairam Engineering College	8th June 2018
	13	Rapid Protyping -IOT and Embedded System Design	Sri Sairam Engineering College	12th to 14 th November 2018
	14	Leadership Talk-Series	MHRD's Innovation Cell	16th may 2020
	15	Micro Fludic Technology and its application for Viral Diagnosis	Rajalakshmi Engineering College	21st May 2020
	16	Accelerating Industry 4.0 - A Post Covid Paradigm	ICT Academy	27th May 2020
	17	Leadership Talk-Series	MHRD's Innovation Cell	30th May 2020
	18	Leadership Talk-Series	MHRD's Innovation Cell	13th June 2020
	19	Leadership Talk-Series	MHRD's Innovation Cell	20th June 2020
FDP Details:	**Sl. No.**	**Title**	**Venue**	**Month/Year**
	1	VHDL Programming	Sri Sairam Engineering College	6th March 2010
	2	Work-Life Balance for Engineering and Management Faculty	Sri Sairam Engineering College	16th February 2012 to 22nd February 2012
	3	MAT LAB Applications in Electrical Engineering	Sri Sairam Engineering College	7th March 2012
	4	World-class Higher learning Institutions and Faculties	Sri Sairam Engineering College	12th December 2012
	5	Embedded systems with ARM 7 microcontrollers	Pantech Proed Pvt ltd	25th & 26th June,2015
	6	Internal faculty training program on Python programming	Sri Sairam Engineering College	30.10.17 to 06.11.17
	7	Entrepreneurship Career Development Program	Sri Sairam Engineering College	08.04.19-12.04.19

	8	FDP on Fabrication Techniques for MEMS based Sensors: Clinical Perspective	NPTEL	Jul – Oct 2018
	9	FDP on Outcome Based Pedagogic Principles for Effective Teaching	NPTEL	Aug- Sep 2018
	10	IIC Online Sessions	MHRD's Innovation Cell	28th April-22nd May-2020
	11	9 Hours FDP on Digital Marketing	ICT Academy	6th May to 12th May -2020
	12	ATAL FDP on Cybersecurity	NITTR, Chandigarh	28th may – 1st June 2020
	13	STTP on Deep Learning Applications	SVCE, Sriperumbudur	19th to 23rd Oct - 2020
	14	ATAL FDP on Wearable Devices	College of Engineering Pune.	21st Sep to 25th Sep
	15	STTP on Recent Trends in Wireless Communication Using IOT	Vidya Jyothi Institute of Technology, Hyderabad	9th Nov to 16th Nov -2020
	16	ATAL FDP on Artificial Intelligence	CSIR- Advanced Materials and Processes Research Institute, Bhopal.	16th Nov-20 to 20th Nov-20
	17	ATAL FDP on IOT	IIIT, Kottayam	7th Dec-20 to 11th Dec-20
	18	STTP on Evolution of RF electromagnetics from microwave to MM wave technologies	VJTI, Mumbai	19th Dec '20 to 23rd Dec'20
	19	ATAL FDP on Sensor Technology	SRMIST, Chennai	4th Jan -21 to 8th Jan -21
	20	ATAL FDP on Biomedical and health care applications	Gautam Buddha University, Noida	21st Jun -21 to 25th Jun 21
	21	ATAL FDP on AI and IOT	KGiSL Institute of Tech, Coimbatore	7th Jun-21 to 11th Jun -21
	22	ATAL FDP on Medical Image processing and 3d applications	University College of Engineering, Pune	5th Jul-21 to 9th Jul -21

	23	FDP on Deep learning foundations and applications	VIT,Chennai	5th -July-21to 14th Jul -21
	24	Faculty Development Programme on Artificial Intelligence for Real-Time Applications	Mepco Schlenk Engineering College	25 - 29 April, 2022.
	25	Faculty Development Programme on Exploring AR/VR tools using Unity tool.	Sri Sai ram Institute of technology	11-15 July 2022
	26	Faculty Development Programme on Signal Processing, AI, and ML in Biomedical Engineering.	SSN, Chennai	16-18 Nov 2022
	27	Faculty Development Programme on "VLSI to SYSTEM DESIGN".	ST Microelectronics	31st Jul - 4th Aug 2023
	28	Faculty Development Programme on "Advances in Signal Processing and its Applications".	VIT,Chennai	20-23 Mar 2023
	29	Faculty Development Programme on " Deep learning in Health care"	SVCE, Chennai	27- 31 Mar 2023
	30	Faculty Development Programme on " Innovations in Biomedical Engineering -Biosignals, Bio-materials, and device technologies".	Easwari Engineering College	10-17 Jul 2024
	31	Faculty Development Programme on "Circuit Creation Analysis".	NITTTR, Chennai	3-7 Jun 2024
	32	Attended Online Refresher Course on "AI & Machine Learning Mastery: A Practical Refresher Course".	Malaviya Mission/Indian Institute of Technology (BHU) Varanasi	18 Nov - 13 Dec 2024
International Conference Details:	**Sl. No.**	**Title**	**Venue**	**Month/Year**
	1	Performance Analysis of Adaptive switching between STBC and SFBC for MIMO-OFDM system	International Conference-Sun College of Engineering and Technology	March 2011
	2	A low power OFDM system based on Memory less FFT/IFFT Processor	International Conference -Maria College of Engg	8th & 9th Mar 2012

	3	Wireless Tele monitoring of Wearable device for recording bio potentials using Embedded systems	International Conference -Adhiparasakthi College of Engineering	3rd to 5th April 2013
	4	Robotic ARM Controller	International Conference-JKK Nataraja College of Engg	7-8 Mar 2014
	5	Real time Monitoring of Respiratory parameters using wireless portable system	International Conference-Jawahar Engineering College	5th April 2015
	6	Design and Implementation of Home brew Ham radio	International Conference-Adhi Parasakthi College of Engineering.	20th -21st April 2016
	7	A Design Of Firefighting And Supervising Self-Sufficient Robots	International Conference -Jeppiaar Engineering College.	23rd – 24th March 2017
	8	Fabrication of E-Nose Sensor for detection of Butane Gas using Nano Porous silicon	International Conference -Sri Sairam Engineering College	21st-22nd Feb 2019
	9	A Novel Approach for Monitoring RoadWay Surface using CNN Classifier	International Conference -Sri Sairam Engineering College	10th to 11th Dec '20
	10	Computational Theory based non invasive biometric finger vein pattern extraction and authentication for electoral system.	International Conference,SRM Valliammai Engineering College	10th April -2021
	11	Blockchain in Food Supply chain	International Conference,IET E Chennai	4th - 5th Jun -2021

	12	A deep learning neural network model for predicting and forecasting the Cryptocurrency -Dogecoin using LSTM algorithm	Virtual International Conference on Futuristic Technologies VICFCNT 2021, Chennai, VIT	10-11-Dec 2021
	13	Interactive Chatbot for space science using Augmented reality - an Educational Resource.	VICFCNT 2021, Chennai, VIT	10-11-Dec 2021
	14	An Efficient Design and implementation of a High-speed Booth Multiplier using Shift Opt Algorithm	International Conference, ICCST 22 , Sri Sairam Engg Collge	9-10 Nov 2022
	15	Design of High Energy Efficient Eco-Friendly Low-Cost Hybrid Auto	International Conference -Sri Sairam Engineering College	8-9 Dec 2022
National Conference Details:	**Sl. No.**	**Title**	**Venue**	**Month/Year**
	1	Intervehicular critical message assist using an integrated embedded system through Zigbee	NCRAEEA'12-IRTT,Erode	29th Feb & 1st Mar 2012
	2	Integrated Embedded System for inter-vehicular communication.	NCETCIT-Sri Sairam Engineering College	2nd March 2012
	3	Next Generation E-voting System Haptic Touch Screen Interface	NCETCIT-Sri Sairam Engineering College	1st & 2nd March 2012
	4	Integrated Embedded System for inter-vehicular communication.	NCCT'12-Mepco Schlenk Engineering College	2nd March 2012
	5	A low power OFDM system based on Memory less FFT/IFFT Processor	NCVLSI'12-Velammal Engineering College	16th March 2012

	6	Wireless Tele monitoring of Wearable device for recording bio potentials using Embedded systems	SDIP'13-PSNA College of Engg and Tech	22nd Mar 2013
	7	Real time Monitoring of Respiratory parameters using wireless portable system	St. Joseph College of Engineering	20th March 2015
	8	Multipower Generation from Railway Traction System with energy conservation	MNM engineering College	28th -29th April 2017
	9	Smart Voting using Finger Vein Extraction and Authentication	Sri Sairam Engineering College	27 th March 2018
	10	Smart Voting	RMD Engineering College	2nd April-2018
	11	Secured Food delivery and Monitoring Using a Blockchain Algorithm	RMD Engineering College	2nd April 2019
	12	Interactive chatbot for space science using augmented reality an educational resource	VIT,Chennai	13th Dec 2021
	13	Computer-aided detection of Anti microbial disorders in Solanum lycopersicum leaf and recommendation of Corp using Convnet.	Kumaraguru College of Technology, Coimbatore	21st May 2022

Journal Details:	Sl. No.	Title	Journal Name	Volume/Date
	1	Inter-Vehicular Critical Message Assist Using An Integrated Embedded System Through Zig bee	Embedded systems,i- manager	Vol.No;02 ,May-July-2012,ISSN-2278-7895
	2	Real-time Monitoring of respiratory Parameters using a wireless Portable system.	International Journal of Engineering development and research(IJERD).	2014- ISSN: 2321-9939
	3	Robotic Arm Control using Bluetooth Device with an Android Application	International Journal of Engineering Research &	ISSN: 2278-0181 - 2014

			Technology (IJERT)	
4	Wireless Tele Monitoring of Wearable Device for Recording Bio potentials Using Embedded Terminal Platform	International Journal of System Design and Information Processing	ISSN 2321-0591-2017
5	To develop an efficient solution for the problem of sharing confidential data in public cloud.	International journal of engineering science Invention research & development.	Vol:III,Issue XII June 2017 e-ISSN:2349-6185
6	Design & Construction of Supervising and firefighting self-Governing Robots.	Middle East journal of scientific research journal.	Vol:25(4) ISSN:1990-9233-2017
7	Secured Food Delivery and Monitoring using Block chain Algorithm	Journal of Test Engineering and Management	ISSN: 0193 - 4120 Page No. 14343 – 14349-2020
8	Smart Relay for Monitoring and Controlling the Systems	International Journal of Engineering Research & Technology	ISSN: 2278-0181 Volume 9, Issue 5
9	Study and Analysis of the Effective Geometries for the Piezoresistive Pressure Sensors	Turkish Journal of Computer and Mathematics Education	Vol.12 No.6(April -2021), 281-288
10	Design Of Iot Based Smart Ration Dispensing System Using Load Cell Feedback To Prevent Ration Fraudulence	International journal of creative research thoughts	Vol.9.issue 6. June 2021
11	Fully AutomatedSegmentation and Classification of Breast Cancer using Machine Learning Techniques	International Journal Of Scientific Research In Engineering And Management (Ijsrem)	Vol.5.issue 6. June 2021
12	Design of iot based low cost rodent repelling device using ultrasonic frequency	International Journal Of Scientific Research In Engineering And Management (Ijsrem)	Vol.5.issue 7. July 2021

	13	Computational Theory based non invasive biometric finger vein pattern extraction and authentication for electoral system.	imanger's journal	Vol.8.No.2 July 2021
	14	Autonomous on-site segregation of metals and non metals using a scrap collecting robot.	IEEE Explorer	**DOI:** 10.1109/IC3IOT53935.2022.9767861 June 2022
	15	A ConvNet-based Real-time Detection and Interpretation of Bovine Disorders	IEEE Explorer	**DOI:** 10.1109/IC3IOT53935.2022.9767880 June 2022
	16	Ai Based Web Application for Disease Identification	International Journal of All Research Education and Scientific Methods (IJARESM)	ISSN: 2455-6211 Volume 10, Issue 6, June-2022
	17	A Non-Invasive Great Exhale Breath Analysis Tool to Detect Respiratory Illness Using IOMT	IEEE Explorer	Dec 2023
	18	A Robust Approach for the Detection of Diabetic Retinopathy at an Early Stage Using Deep CNN	IEEE Explorer	May 2023
	19	An Efficient Fully Automated Detection of Mucormycosis Using Three-Dimensional Deep Learning on Computer Tomography Studies	IEEE Explorer	May 2023
	20	A Smart IoMT-Based Health Assisting Tool for Predicting Deep Vein Thrombosis	IEEE Explorer	17 October 2023
	21	Interactive Chatbot For Space Science Using Augmented Reality - An Educational Resource	Springer Book Series	23 June 2023
	22	A deep learning neural network model for predicting and forecasting the Cryptocurrency - Dogecoin using LSTM algorithm	Springer Book Series	19 May 2023

	23	Sustainable Cultivation of Algae for Renewable Fuel Using IOT	IEEE Explorer	19 March 2024
	24	Identification of Silicosis using Deep Learning Model on Computed Tomography Images	IEEE Explorer	24 January 2024
	25	A Non-Invasive Great Exhale Breath Analysis Tool to Detect Respiratory Illness Using IOMT	IEEE Explorer	19 March 2024
	26	Respiratory Sound Analysis for Lung Disease Diagnosis	IEEE Explorer	22 January 2024
	27	Transforming Healthcare with Deep Learning Cardiovascular Disease Prediction	IEEE Explorer	Jan 2024
	28	WAVECLEAN"-An Innovation in Autonomous Vessel Driving Using Object Tracking and Collection of Floating Debris	IEEE Explorer	June 2024
	29	FAIT 2.0" - Design And Implementation Of A Robot For Plant Disease Detection, Animal Trespassing Detection And Locust Prevention	IEEE Explorer	June 2024
	30	A Robust and Safe Artificial Intelligence-Based Robot Navigation for Smart Buildings	IEEE Explorer	19 March 2024
	31	LoRa WAN Based Smart Safety Helmet with Protection Mask for Miners	IEEE Explorer	11 June 2024
	32	Waverider - An Autonomous Smart Boat For Garbage Collection, Rescue Operations And Aquaculture.	Springer Book Series	20 November 2024
Patent Details:	**Sl. No.**	**Title**	**Journal Name**	**Appln. No**
	1	A Device to peel Fodders Skin	Indian Patent Journal -Published	Nov-2020-202041048978

	2	Floating Bot for monitoring human existence in hydrometeorological disasters	Indian Patent Journal - Published	Dec- 2021- 202141054392
	3	Smart Safety Helmet with Face Mask	Indian Patent Journal- Published	July 2022- 367224-001
	4	An Autonomous Boat For Floating Trash And Algae Collection	Indian Patent Journal - Published	Dec 2022 – 202241074780 A
	5	Sustainable Cultivation of Algae for renewable fuel using IOT	Indian Patent Journal - Published	Apr 2023- 202341019325
	6	A Non-Invasive Method Of Detecting Lung Disease Using AI-Based E-Stethoscope	Indian Patent Journal - Published	Oct 2024- 202441076416
	7	Slam-Based Integrated Framework For Indoor And Outdoor Robotic Navigation And Assistance In Smart Te	Indian Patent Journal - Published	Feb 2025- 202541012170 A

Additional Details:
GOOGLE SCHOLAR LINK:
https://scholar.google.com/citations?user=4r0NIqoAAAAJ&hl=en&scioq=shivaanivarsha
linkedin:https://www.linkedin.com/in/n-shivaanivarsha-b2b28789
Researchgate:https://www.researchgate.net/profile/Shivaanivarsha-Natarajan