


<b>Name:</b> S.Gayathri				
<b>Designation:</b>	Assistant Professor Gr-III			
<b>Qualification :</b>	M.Tech			
<b>Area of specialization:</b>	Applied Electronics			
<b>Experience:(As on Dec2023)</b>	<b>Industrial Experience</b>		<b>Teaching Experience</b>	
	-		15 years	
<b>Number of workshop/ FDP attended :</b>	<b>Number of Workshops</b>		<b>Number of FDPs</b>	
	6		1 4	
<b>Publications:</b>	<b>Conference</b>		<b>Journal</b>	
	<b>National</b>	<b>International</b>	<b>National</b>	<b>International</b>
	3	10	5	3
<b>Patents:</b>	<b>National</b>		<b>International</b>	
	3		-	

<b>Professional Body Membership:</b>	IEEE, IAENG, ISTE, IETE			
<b>Staff Achievements</b>	<p>1. Published 8 papers in IEEE International Conference and Indexed in Scopus. Published 16 UGC Papers, 3 Book Chapters and 3 Patents.</p> <p>2. Received 2 Best Paper Award in the IEEE International Conference.</p> <p>2. As an Advisor in Industrial Electronics Society received a Student Chapter fund of \$456.</p> <p>3. Organized an event in Skill Development club "Skills and Thrill's funded by AICTE -SPICES.</p>			
<b>Workshop Details:</b>	<b>Sl. No.</b>	<b>Title</b>	<b>Venue</b>	<b>Month/Year</b>
	1	Embedded system design using PIC Microcontroller	Sathyabama university	2011
	2	Wireless sensor networks and its application	BSA Abdul Rahman University	2012
	3.	Recent Trends in antennas for multi field applications	Sri Sai Ram Engineering College.	27&28 December-2012
	4.	Artificial intelligence and cognition	Panimalar Institute of Technology.	4&5 November 2015

	5.	Rapid Prototyping– IoT and Embedded system design	Sri Sai Ram Engin eering Coll ege.	12 to 14 November 2018
	6.	Hands on training in SDR platfor m and IoT based wireless sensor networks	St. Joseph group of instituti ons.	25 & 26 May 2018

FDPDetails:	S l. N o.	Title	Venue	Month/ Year
	1	FacultyDevelopmentprogram	Bharath University	2012
	2	Teachingexcellencein Engineeringandmanagement curriculum	Sri SaiRam Instituteof Management Studies	20&21 June 2016
	3	PythonProgramming	SriSaiRam Engineering College	30.10.2017to 6.11. 2017
	4.	EngineeringTeaching PedagogyandTeaching Learning Process	SriSaiRam Engineering College	03.12.2018to 07.12.2018
	5.	Robotics	SriSaiRam Engineering College	13.05.2019- 18.05.2019
	6.	Machine Learning and Data ManipulationusingRandSQL	SriSaiRam Engineering College	30.10.2019to 06.11.2019
	7.	5Daysshorttermtraining courseonMachineLearning	Indianinstitute ofInformation	30.11.2019to 04.12.2019

	Algorithms and applications	technology, Design and Manufacturing, Kancheepuram.	
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	8.	Electron Devices, Microprocessors and Image Processing	SRM Valliammai Engineering College	11.05.2020 to 15.05.2020
	9.	ATAL FDP on “Artificial Intelligence”	National Institute of Technology, Calicut	09.11.2020 to 13.11.2020
	10.	AICTE Sponsored FDP on “Feature Analysis Using AL/ ML”	Sri Krishna College of Engineering and Technology	16.11.2020 to 21.11.2020
	11.	ATAL FDP on “Internet of things (IoT)”	Institute of Engineering and technology- Lucknow.	29.10.2020 to 02.11.2020
	12.	SERB Sponsored 2 Day online FDP on “Recent trends in Bio- signal acquisition and research pers- pectives in Signal analysis”.	N.S.S College of Engineering.	25.03.2022 * 26.03.2022
	13.	FDP on “Deep Learning & its applications”.	Sri Sai Ram Engin- eering Coll- ege.	11.07.2022 to 15.07.2022
	14.	Attended a AICTE Sponsored ATAL Faculty Development program on “Quantum Computing and its Future Scope”.	Sri Sai Ram Engineering College.	18.12.2023 to 26.12.2023
<b>Conference Details: National:</b>	<b>S I. N</b>	<b>Title</b>	<b>Venue</b>	<b>Month/ Year</b>

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	<b>1.</b>	Histogram equalization and enhancement technique.	Bharath University	<b>2011</b>
	<b>2.</b>	Wireless ATM Networking	Bharath University	2012
	<b>3.</b>	Adiabatic technique for energy efficient logic circuit design.	Bharath University	2011

<p><b>International :</b></p>	<p>1.</p>	<p>Hallucination of Face Images Across Multiple Modalities using Tensors.</p>	<p>International Conference on Recent Trends in Engineering, Management and Science (ICRT EMS-2019) organized by Delhi institute of technology management &amp; research, Faridabad, Haryana.</p>	<p>26<sup>th</sup>-27<sup>th</sup> September 2019.</p>
	<p>2.</p>	<p><b>Won the best paper award-</b>  “A filterless method of Generating frequency 32-tupling millimeter wave using external modulators”</p>	<p>Conference in “International Conference on Computer &amp; Power systems” held at Sri Venkateswara College of Communication Technology</p>	<p>29, 30 May 2020</p>
	<p>3.</p>	<p>Performance Analysis of Various Segmentation Algorithms for Microarray Images.</p>	<p>AIP Conference Proceedings.</p>	<p>28 Sep 2022</p>
	<p>4.</p>	<p>Implementation and investigation of Reconfigurable micro wave applications.</p>	<p>IEEE Xplore</p>	<p>Dec 2021</p>



	<p>5. Detection and Identification of things for Blind people using Raspberry Pi.</p>	<p>IEEE Xplore</p>	<p>Feb 2022</p>
	<p>6. Design of Microwave 3-D Antenna for brain tumour sensing system.</p>	<p>IEEE Xplore</p>	<p>12 May 2022</p>
	<p>7. Eye blink controlled smart wheelchair aiding disabled people.</p>	<p>IEEE Xplore</p>	<p>May 2022</p>
	<p>8. Identification of voice pathology from temporal and cepstral features for vowel 'a' low intonation.</p>	<p>IEEE Xplore</p>	<p>June 2022</p>

	9.	Communicative Guiding system for physically challenged person.	IEEE Xplore	30 Aug 2022
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<b>JournalDetails:</b>	<b>Sl.No.</b>	<b>Title</b>	<b>JournalName</b>	<b>Volume/ Date</b>
<b>International</b>	1.	SmartRoadCheckingVehicle	International Journal of Engineering Research in Computer Science and Engineering(IJERCSE)	July2019 Vol 6, Issue7 January – February 2020
	2.	Image compression algorithm for energy efficiency optimization in wireless sensor networks	International Journal of European Chemical Bulletin.	June 2023 Special Issue 12
	3.	Applications of AI in autonomous surveillance robotic system.	International Journal of European Chemical Bulletin.	June 2023 Special Issue 12

<b>National</b>	1.	Hallucination of face images	TEST Engineering and Management	December 2019
	2.	across multiple modalities using Tensors	International Journal of Recent Technology	Volume 6, Issue 5 May 2019
	3.	Chaotic Dynamics of a Non-Linear Electronic Circuit	and Engineering (IJRTE)	December 2020
	4.	A filterless method of generating frequency 32-tupling millimeter-wave using external modulators for green communication and its applications	Journal of Green Engineering	May 2019
	5.	FPGA implementation of an Improved watchdog timer with fault injection for safety critical applications	Journal of Emerging Technologies and Innovative Research	May 2019
		An IoT based Military	Journal of Emerging Technologies and Innovative Research	

		spying Robot		
		usingraspberryPi		

CERTIFICATE COURSES:	1.	Digital Circuits	NPTEL	July to October 2018
	2.	Software Defined Radio	NPTEL	March 2019 <sup>2n</sup> <sup>d</sup> April 2020
	3.	Introduction to IoT, Introduction to Artificial Intelligence	Simplilearn	3 1 <sup>st</sup> March 2017 <sup>th</sup> to May 2020
	4.	Tensorflow 2.0	Udemy	14 <sup>th</sup> May 2020
	5.	: Deep Learning and Artificial Intelligence	Coursera	July- August 2021
	6.	Introduction to Big Data	Coursera	Jan- Feb 2021
	7.	Programming for Everybody (Getting started with Python)	NPTEL	July- October 2022
	8.	Teaching and Learning in General Programs: TALG	NPTEL	Jan- Feb 2022
	9.	Effective	NPTEL	Jan- Feb 2022

		Engineering teaching in Practice.  Fundamentals of Artificial Intelligence.		July- October 2023
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PatentDetails:	Sl.No.	Title	JournalName	Volume/Date
	1.	LI-FI based stereo audio streaming technology	Published	20.11.2020
	2.	A novel assembly having physical link shared channel with switched antenna frequency domain resource allocation determination.	Published	03.06.2022
	3.	Implementation of an Arduino Multi-Node solar-powered BLE sensor for monitoring humidity and temperature.	Published	23.12.2023



### **AdditionalDetails:**

1. Awarded in recognition for the outstanding support to conduct the DrishTI Online Contest by TI University Program from 7.8.2019 to 10.8.2019.
2. Organized a 3 Day Hands on Workshop on "Rapid Prototyping - IoT and Embedded System Design" in Collaboration with M/S. Digital Shark Technology Pvt. Ltd, Bengaluru under Texas Instruments University Programme from 12.11.2018 to 14.11.2018
3. Organized a 5 day Hands on Workshop on "Robotic System Design" in Collaboration with M/S. Digital Shark Technology Pvt. Ltd, Bengaluru under Texas Instruments University Programme from 22.04.2019 to 26.04.2019
4. Organized various technical events and competitions on Engineer's Day on 15.9.2016 for the Department of ECE.
5. Acted as a one of the Organizers in 5 days FDP program on "Artificial Intelligence for Robotics" Sponsored by AICTE Training and Learning Academy (ATAL).
6. Organized an Events, M-Apps club in association with Skill Development club named "AICTE – SPICES Sponsored Skills 'N' Thrills" on 10.10.22 & 11.10.22.
7. Organized an Event "Technolix – a quiz contest "on account of World's Students Day – Dr A.P.J Abdul Kalam's Birth anniversary, on 6<sup>th</sup> October 2022.
8. Completed Module 1, 2, 3, 5, 6, 7 and 8 in NITTTR.
9. Completed a 4 weeks NPTEL- AICTE, FDP on "Effective Engineering Teaching in practice" on Feb 2021.
10. Completed a 4 weeks NPTEL- AICTE, FDP on "Teaching and Learning in general programs: TALG" during Aug 2021.

11. Completed a 4 weeks NPTEL- AICTE, FDP on “Fundamentals of Artificial Intelligence” during July- October 2023.

12. Organized A Distinguished Lecture Program on “Secure and Efficient Edge Computing in High-Performance IoT Environments: Challenges and Solutions” on 13.12.2023 by IEEE Industrial Electronics Society.

