Name: **SANDHYA J**	
Designation:	**Assistant Professor Grade III**
Qualification:	**M.E,(Ph.D)**
Area of specialization:	**RF, ANTENNA DESIGN**

Experience: (As of Feb 2026)	**Industrial Experience**		**Teaching Experience**	
	Nil		**5.2 years**	
Number of workshops / FDP attended:	**Number of Workshops**		**Number of FDPs**	
	17		**29**	
Publications:	**Conference**		**Journal**	
	National	**International**	**National**	**International**
	2	**16**	**-**	**4**
Patents:	**National**		**International**	
	-		**-**	
Professional Body Membership	1.IAENG (International Association for Engineers) 2.1EEE (Institute of Electrical and Electronics Engineers)			

Achievements:	1. Completed **8 modules in NITTTR** conducted by AICTE in July 2022.
	2. Completed NPTEL online certification course on **Electromagnetic waves in Guided and wireless media** on Feb-Apr 2021.
	3. Appreciated for **Remarkable service as a mentor** and acting as a guiding star by supporting, motivating and enlightening the student fraternity towards development.
	4. Organized webinar on **antenna concepts and introduction to 5G** in March 2021 at Sri Sairam Engineering College.
	5. Completed the AICTE-ISTE approved orientation programme on **Neuromorphic computing for AI** by KPR institute of technology and engineering ,Coimbatore from 24 to 31 Dec 2021.
	6. Completed **python training** at Sairam Engineering College offered by Spoken Tutorial Project, IIT Bombay on 10 Nov 2022
	7. Completed NPTEL online certification course on **Introduction to Internet of Things** on July-Oct 2022
	8. Completed certificate course on **Digital Teaching Techniques** from ICT Academy under R systems women educator empowerment program from 2 Feb 2023 to 17 Feb 2023.
	9. .Organized an **IEEE SPS seasonal school Optical Signal Processing for Communication ,Computing and sensing** from 06.03.2023 to 10.03.2023 at Sri Sairam Engineering College.
	10. Completed NPTEL online certification course on **Introduction to Industry 4.0 and Industrial Internet of Things** on Jul-Oct 2023
	11. Organized an **IEEE SPS forum on Emerging Technologies in Signal Processing in Smart Sensing: Design and challenges** from 15.11.2023 to 17.11.2023 at Sri Sairam Engineering College.
	12. Completed NPTEL online certification course on Photonic Integrated Circuits on Jan - April 2024
	13. Undergone Value Added Training on "**Radar and towards Millimeter -wave Radar Signal Processing and learning based Applications**" on 19 and 20 September 2024 at Sri Sairam Engineering College .

	14.Completed NPTEL online certification course on **Ethics in Engineering Practice** on Feb-Apr 2025			
	15.Completed NPTEL online certification course on **NBA Accreditation and Teaching and Learning in Engineering (NATE)** on Jan-Apr 2025			
	16.Completed NPTEL online certification course on **Teaching And Learning in Engineering (TALE)** on Jan-Feb 2025			
	17.Completed NPTEL online certification on **Technical Communication for Engineers** on Jul-Aug 2025.			
	18.Completed NPTEL online certification on **Patent Drafting for Beginners** on Jul-Aug 2025.			
	19.Organised **6 Days Online - Professional Development Program (PDP)** on Advanced Design and Optimization Techniques for Next-Generation Antennas from 3.11.2025 to 6.11.2025.			
Outside world Interactions	1.Delivered the webinar as part of Contextual Enhancement Learning on **"Antenna Design Foundations and its Role in Efficient Transmission and Reception"**, organized by the Department of Electronics and Communication Engineering, Kalasalingam Academy of Research and Education (Deemed to be University), Srivilliputtur on **17th October 2024.** 2.Volunteered as proctor to guide and oversee competing teams for the **IEEEXtreme 18.0 programming competition** that hosted +19,000 participants on 26th October 2024 3.Delivered the webinar as part of Contextual Enhancement Learning on **"From Coulomb to Maxwell - Understanding Core Laws and Concepts of Engineering Electromagnetics"**, organized by the Department of Electronics and Communication Engineering, Kalasalingam Academy of Research and Education (Deemed to be University), Srivilliputtur on **28th February 2025.** 4.Completed **Social Emotional Education: Knowledge to Practice (SEEK) course (30 hours)** conducted by UNESCO MGIEP Mahatma Gandhi Institute of Education for Peace and Sustainable Development from October 30,2025 to October 31,2025.			
Workshop Details:	**Sl. No.**	**Title**	**Venue**	**Month/ Year**
	1	Robo Hack	Raja Annamalai Mandram,	March 2015
	2	Laser and Photonics	Saveetha Engineering College	March 2015

	3	Android App development	Saveetha Engineering College	July, 2017
	4	Skill development in C programming	MIT ,Anna University	December 2019
	5	IoT and cloud computing	MIT ,Anna university	December 2019
	6	SSTTP on Industrial Robotics- Basics-KUKA	MIT ,Anna University	December 2019
	7	LABVIEW	MIT ,Anna University	Feb 2021
	8	Research and development activities	Sri Sairam Engineering College	Dec 2020
	9	Tinker your ideas to the next level	Sri Sairam Engineering College	May 2021
	10	Orange data mining tool	Sri Sairam Engineering College	May 2021
	11	Engineering Signal Processing and Communication Systems using FPGA (Online-mode).	Madanapalle Institute of Technology and Science, Madanapalle	26-30 July 2022
	12	Designing and modelling of IoT , AI AND ML system	AICTE ATAL Academy ,Arm	1 to 5 Aug,2022

			Education and STMicroelectronics	
	13	High frequency design for 5G using ADS	MIT,Anna university, chrompet	21 April 2023
	14	Empowering Innovation:Ansys Numerical Workshop for photonics Enthusiasts	Prakash Bharati-IEEE photonics society	27-28 July 2023(evening session)
	15	Design thinking	Sri Sairam Engineering College	28 July 2023
	16	VLSI to System Design: Silicon to End Application	AICTE ATAL Academy ,Arm Education and STMicroelectronics	31 July,2023 to 4 August 2023
	17	Mastering Microsoft Excel 365(50+ formulas)	Velammal Training Institute	June 19 2024 to June 21 2024
FDP Details:	**Sl. No.**	**Title**	**Venue**	**Month/ Year**
	1	Artificial Intelligence for Robotics (online)	Sri SaiRam Engineering College	December 2020

	2	Lab on chip (online)	S.R.M institute of science and technology	January 2021
	3	Smart Cities(online)	Vellore Institute of Technology.	February 2021
	4	Precision Health Technology(online)	Thiagarajar College of Engineering.	December 2020
	5	Cognitive radio, Antennas & millimeter wave communication(online)	Saranathan college of engineering.	June 2021
	6	D3(Design,Develop,Decode)GUI Based FPGA programming	SRMIST ,Vadapalani	December 2021
	7	Advances in VLSI, Embedded and Signal Processing	Sri SaiRam Engineering College	June 2021
	8	Advances in Photonics and Fiber Optics Technologies	IETE Chennai Centre & IEEE Photonics Society Madras Chapter	June 2021
	9	Six Sigma for industrial projects	Sri SaiRam Engineering College,MHRD Institution Innovation council(SEC-IIC) in association with MSME	Feb 2021

	10	Advanced Electromagnetics and Applications	SSN	May 2021
	11	Signal Processing Systems & Optical Communication	Sri Sairam Engineering college	May 2021
	12	Electromagnetic waves in Guided and wireless media	NPTEL- All India Council for Technical Education(AICTE) funded by MoE Govt of India	Feb-Apr 2021.
	13	Inculcating Universal Human Values inTechnical Education	All India Council for Technical Education(AICTE)	August, 2021.
	14	Deep learning and its application.	Sri Sairam Engineering college	11 - 15 July 2022
	15	Image, Audio, & Video Processing for Pattern Recognition	IEEE Signal Processing Society Madras Chapter inassociation with Department of Electronics and Communication Engineering, Kumaraguru College of Technology, Coimbatore	23 to 28 June 2022.
	16	Introduction to Internet of Things	NPTEL- All India Council for Technical Education(AICTE)	July-Oct 2022

			funded by MoE Govt of India	
	17	Recent Trends in 5G Communication Networks	Sri SaiRam Engineering College IEEE Madras Chapter	26 Dec 2022 to 30 Dec 2022
	18	Hands on training on data science tools	Sri SaiRam Engineering College	23-28 Jan 2023
	19	Innovation in Mentoring Pedagogy and incorporation of ICT techniques in Education	Department of Electronics and Communication Engineering in association with Institution of Electronics and Telecommunication Engineers (IETE)	30 Jan 2023 to 02 Feb 2023
	20	Optical Signal Processing for communication ,Computing and sensing	IEEE SPS Seasonal School in Sri Sairam Engineering College	6-10 march 2023
	21	Introduction to Industry 4.0 and Industrial Internet of Things	NPTEL- All India Council for Technical Education(AICTE) funded by MoE Govt of India	July-Oct 2023
	22	Quantum Computing and its future scopes	Sri Sairam Engineering College	18 Dec 2023 to 26 Dec 2023 .

	23	Photonic Integrated circuits	NPTEL- All India Council for Technical Education(AICTE) funded by MoE Govt of India	Jan to April 2024
	24	Clean Energy for Sustainable development	Arjun College of Technology	10 June 2024 to 14 June 2024
	25	Challenges of Antenna Design	Sathyabama Institute of Science and Technology, Chennai in association with IEEE Antennas & Propagation society (Madras Section)	09 Dec 2024 to 13 Dec 2024
	26	Next-Generation Algorithms and Technological Advances	MIT CAMPUS, ANNA UNIVERSITY	6 January 2025 to 11 Jan 2025
	27	Perspective of 6G towards Next Gen Communication	Sri Sairam Engineering College ,West Tambaram,Chennai	07.04.2025 to 11.04.2025
	28	SEMI-TECH: Semiconductor Innovation & Technology for Next-Gen	Electronics at SRM Institute of Science and Technology	18/08/2025 to 23/08/2025.
	29	Technical Communication for Engineers	NPTEL- All India Council for Technical Education(AICTE) funded by MoE Govt of India	Jul-Aug 2025

	30	AI/ML-Based Reconfigurable Antenna Design for Next-Generation Wireless Communication	Karunya Institute of Technology and Sciences	Oct 27,2025 to Nov 1 2025
Conference Details:	**Sl. No.**	**Title**	**Venue**	**Month/ Year**
	1	Performance Analysis of Corner Truncated Microstrip Antenna Incorporating Artificial Magnetic Conductor	Sri Sairam Engineering College, Tambaram	February 2020
	2	CMOS implementation using ONOFIC and LECTOR analysis	Loyola Institute of Technology	February 2018
	3	Thin Film Technology	Saveetha Engineering College	April 2015
	4	Water and Renewable Energy	Saveetha Engineering College	April 2015
	5	Vehicle License plate recognition system	National Engineering College	December 2021
	6	Big data and Cloud Computing	Karunya Institute of Technology and Sciences	August 2021
	7	Implementation of Block Truncation Algorithm	SRM Valliammai Engineering College	April 2021
	8	Mapping the surface water using convolution neural	Sri Sairam Engineering College, Chennai	March 2022

		networks for Remote Sensing Technology		
	9	Remote Rescue Vehicle	Vidya Vihar Institute of Technology with global conference hub ,KCT Tech park ,Coimbatore	22 and 23 Dec ,2023
	10	Smart trolley Pro	Sri Sairam Engineering College, Chennai	14 and 15 Dec 2023
	11	Usage of millimeter wave signal propagation for outdoor communication	Sri Sairam Engineering College	14 and 15 Dec 2023
	12	Deep Learning Based Tennis Shot Type Prediction Using Gait Analysis	Sri Sairam Engineering College	14 and 15 Dec 2023
	13	Design of Dual band slot loaded Microstrip Patch Antenna for Wireless Applications	Sri Sairam Engineering College	8 and 9 October 2024
	14	Harnessing the potential of conversational AI: A Roadmap for Academic Applications	Sri Sairam Engineering College	8 and 9 October 2024
	15	Performance Analysis of Fluid Antenna System for 5G and 6G Applications	SRM Institute of Science and Technology ,Kattankalathur	24 April 2025

	16	Performance Analysis of Inverted U -shaped Antenna for 5G Wireless Applications	Sri Sairam Engineering College	16 and 17 April 2025

Journal Details:	Sl. No.	Title	Journal Name	Volume/ Date
	1	Implementation of Block Truncation Algorithm	i-Manager's journal on Software engineering (ISSN-0973-5151)	VOL 15 NO 2 Oct -Dec 2020
	2	RFID based parking System	Compliance Engineering An UGC-CARE Approved Group II journal (ISSN NO-0898-3577)	VOL 12 ISSUE 8 Aug 2021
	3	Intelligently Optimized Driving test using IoT	Compliance Engineering An UGC-CARE Approved Group II journal (ISSN NO-0898-3577)	VOL 14 ISSUE 9 Aug 2023

	4	Truncated Microstrip patch array antenna for radar applications	Compliance Engineering An UGC-CARE Approved Group II journal (ISSN NO-0898-3577)	VOL 14 ISSUE 10 Oct2023

Additional Details:

- **Completed Diploma in Computer Application in Computer Software College in May 2014**

- **Organized the event "TREAT FOR TWEET" during IETE student Forum sponsored colloquium held on 2018 in Saveetha engineering college**

- **Co-ordinated an event named "BRAINY BOT" conducted by Saveetha engineering college in 2017.**

- **Part of Volunteers for "Save A life"- Guinness record breaking event in 2015.**

- **Eminent record maker with "world records" in RoBo Hack'15 conducted by kaashiv InfoTech Team in 2015**

- **Attained 100% attendance in BE during all semester towards all environments.**

- **Attained "Rocking Reader" Class Award in Saveetha engineering college in 2018**

- **Presented poster titled "CMOS implementation using ONOFIC and lector analysis" in the International conference on smart structures and systems (ICSSS 2017) in 2018.**

- **Industrial Visit to ISRO Centre, Sriharikota in 2018**

- **Industrial visit to Traco Cable Company and Keltron in Kerala in 2018.**

- **Undergone Implant training at BSNL, Chennai in 2016.**

- **Attended NAAC sponsored two days national level seminar on "Revised Accreditation framework for quality enhancement in higher education institutes during July 2021 by Sri Sairam engineering College**

- **participated in the International Webinar Programme on "Electrical Design Methodology for Industries" organized by the Department of Electrical and Electronics Engineering, Arasu Engineering College, Kumbakonam on feb 2021**

- **participated in the Guest Lecture Programme on "Recent Trends in Smart Grid" organized by the Department of Electrical and Electronics Engineering, Arasu Engineering College, Kumbakonam on 29.01.2021**

- **participated in the Webinar on "Intelligent receiver design and future communication for 6G technology" organized by IETE Mysuru Centre held on 13th March, 2021.**

- **Participated in the Online Webinar on Outcome Based Teaching Learning Process in Technical Education"Conducted by this Institute on 06.05.2021.**

- **Participated in the Online Webinar on Research journal finding and reference management through web of science and scopus - Research management on June 2021**

- **Participated in the Online Webinar on photoshop by skill development and photography club at Sri Sairam Engineering College on sep 2021.**

- **Attended a keynote session on Integrating blockchain in IoT - concepts and examples on march 10,2022 at Sri Sairam Engineering College.**

- **Attended a keynote session on AI and IoT New Revolution on march 10,2022 at Sri Sairam Engineering College**

- **Attended a keynote session on SWIPT(Simultaneous Wireless Information and Power Transmission for space Exploration on march 10,2022 at Sri Sairam Engineering College.**

- **Attended a keynote session on Wearable health tech for cancer supportive care on march 11,2022 at Sri Sairam Engineering College.**

- **Attended "Technical Session on All about Drones" conducted through the e-Yantra Lab Setup Initiative (eLSI) on 16th August 2022 by IIT bombay.**

- **Attended "Technical Session on Basics of Self Balancing Robot" conducted through the e-Yantra Lab Setup Initiative (eLSI) on 9th August 2022 by IIT bombay**

- **participated in IP Awareness/Training program under National intellectual property awareness mission on April 12, 2022 organized by Intellectual Property Office, India**

- **Participated in VTS inauguration talk on SET protocol architecture on 17.11.2022 by IEEE madras section vehicular technology society chapter .**

- **Attended technical talk on Massive Ultra-Reliable Low Latency Connectivity (mURLLC) in 6G on 24.11.2022 by IEEE madras section vehicular technology society chapter**

- **Attended technical talk on Reconfigurable Intelligent and Holographic Surfaces for Wireless Communications**

- **Attended technical talk on Reconfigurable Intelligent and Holographic Surfaces for Wireless Communications on 2.12.2022 organized by IEEE madras section vehicular technology society chapter**

- **Attended technical talk on Integrating Terrestrial and Non-terrestrial Networks: 3D Opportunities and Challenges on 20.12.2022 organized by IEEE madras section vehicular technology society chapter**

- **Attended lecture series on ultrafast optics and photonics: biomedical, scientific and industrial applications from 24th Dec 2022 to 25th Dec 2022 organized by "NSUT Delhi Optica Student Chapter" of ECE Department, NSUT Delhi.**

- **Attended Science Day speech on the subject of research and innovation for STEM education and women empowerment conducted by IEEE photonics society on 28Feb 2023.**

- **Attended Webinar on Roadmap to 6G Technology: Challenges &Opportunities conducted by School of Electronics Engineering, Vellore Institute of Technology, Vellore organized by IETE Chennai Centre on 06.04.2023.**

- **Attended technical talk on wireless charging on 12.05.23 organized by IEEE madras section vehicular technology society chapter .**

- **Attended webinar on Fiber Optic Sensors and their Real – World Challenges KCG College of Technology, organized by IETE Chennai Centre on 29.11.2023.**