

<b>Ms.SURYA S</b>					
<b>Designation:</b>	<b>Assistant Professor</b>				
<b>Qualification:</b>	<b>M.TECH, Ph.D (Pursuing)</b>				
<b>Area of specialization:</b>	<b>COMMUNICATION SYSTEMS</b>				
<b>Experience : (As On JULY 2025)</b>	<b>Industrial Experience</b>		<b>Teaching Experience</b>		
	<b>-</b>		<b>12.8Years</b>		
<b>Number of workshop / FDP attended:</b>	<b>Number of Workshops</b>		<b>Number of FDPs</b>		
	<b>4</b>		<b>16</b>		
<b>Publications:</b>	<b>Conference</b>		<b>Journal</b>		
	<b>National</b>	<b>International</b>	<b>SCI</b>	<b>Scopus</b>	<b>Others</b>
	<b>-</b>	<b>3</b>	<b>-</b>	<b>2</b>	<b>6</b>
<b>Patents:</b>	<b>National</b>		<b>International</b>		
	<b>1 Published</b>		<b>-</b>		
<b>Professional Body Membership:</b>	<b>IETE - M506169 IEEE 98066224 ISTE-LM87084</b>				

<b>Achievements:</b>	<p>Received the Best Paper Award from ICPECTS 2022 for the paper, “A Low Cost QuArm Band for Controlling Contagious Diseases”.</p> <p>An Award of honour and recognition for publishing a book chapter in the record event “maximum authors contributing for a book on covid 19 and its impact” by ESN Publications.</p> <p>NPTEL Believers - 2024 NPTEL  Discipline Stars - 2024  NPTEL Motivated Learners -2025 NPTEL  Enthusiasts - 2024  NPTEL Domain Scholars - 2024, 2025</p>			
<b>Workshop Details:</b>	<b>Sl. No.</b>	<b>Title</b>	<b>Venue</b>	<b>Month/Year</b>
	1.	Recent Trends in Antennas for Multifield Applications	Sri Sairam Engineering College, Chennai	December 2012
	2.	Faculty Industrial Training Program	GH Induction Private Limited, Thirumudivakkam	27th June to 1st July, 2022
	3.	Digital Teaching Techniques	R systems women Educators Empowerment program	2-17 Feb 2023
	4	Emerging trends in Academic Writing and Publication	SHODH, Punjab University	11-Jan 2024

**FDP details:**

<b>Sl. No.</b>	<b>Title</b>	<b>Venue</b>	<b>Month/Year</b>
1	Soft Computing With AI	Sri Sairam Institute of Technology	March 2011
2	Peer to peer Systems	Dhanalakshmi College of Engineering, Chennai.	July 2011
3	Teaching excellence in Engineering & Management Curriculum	Sri Sairam Engineering College, Chennai.	June 2016
4	Optical communication & Networks	Sri Sairam Engineering College, Chennai.	June 2017
5	Engineering Teaching Pedagogy and Effective Learning Process	Sri Sairam Engineering College, Chennai.	December 2018
6	Wireless Networks	Sri Sairam Institute of Technology	December 2018
7	IoT	Shri Sant Gajanan Maharaj College of Engineering, Shegaon	5-9 Oct, 2020
8	Green Technology & Sustainability Engineering	ATAL Academy Online FDP at St. Joseph's Institute of Technology	14-18 Dec,2020
9	Internet of Things	ATAL Academy Online FDP at Kongu Engineering College	21-25, Dec 2020
10	Inculcating Universal Human Values in Technical Education	AICTE Online FDP	17-21, May 2021
11	Recent Advances in Antennas for Wireless Communications	Bapatla Engineering College, Andhra Pradesh	27-31, July 2021
12	Electromagnetic waves in Guided and Wireless Media	NPTEL – AICTE	Feb-Apr 2021

13	Industry4.0 IoT	NPTEL – AICTE	July-Oct, 2022
14	5G Antenna Design with AIML Applications using HFSS	St. Martin's Engineering College, Secunderabad.	27-28 May 2022
15	UHV II	AICTE	3-8Feb 2023
16	Tricks And Techniques For Research Article &Thesis Writing Using Modern E-Tools”,	Baselios Mathews II college of Engineering	2-Aug-2023
17	Accreditation and Outcome Based Learning	NPTEL AICTE	Aug-2023
18	Effective Engineering Teaching In Practice	Online- NPTEL AICTE	Feb 2024
19	Teaching And Learning in Engineering (TALE)	Online- NPTEL AICTE-IITM	Jan- Feb 2024
20	Ethics in Engineering Practice	Online- NPTEL AICTE-IITM	Feb 2024
21	Communication Networks	Online- NPTEL AICTE-IITM	Apr 2024
22	Perspectives of 6G towards Next Generation	Sri Sairam Engineering College, Chennai.	Apr 2025
23	Signal Processing Techniques And Its Applications	Online- NPTEL AICTE IITKH	Jan-Apr 2025
24	System design through Verilog	Online- NPTEL AICTE IITG	July-oct 2025

<b>Seminar Details:</b>	<b>Sl. No.</b>	<b>Title</b>	<b>Venue</b>	<b>Month/Year</b>
	1.	Roadmap to 6G technology	IETE	6-Apr 2023
	2.	5G Confluence 2022	Telecom Sector Skill Council-ICT Academy	21 Dec 2022
	3.	AI and IOT Revolution	IC3IOT-SEC	10 Mar 2022

	4.	Integrating Blockchain in IOT concepts and Examples	IC3IOT-SEC	10 Mar 2022
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### Publication Details:

1. B. P. Prathaban, M. Jenath, S. Rajendran and S. Surya, "ALow Cost QuArm Band for Controlling Contagious Diseases," 2022 International Conference on Power, Energy, Control and Transmission Systems (ICPECTS), Chennai, India, 2022, pp. 1-7, doi: 10.1109/ICPECTS56089.2022.10047664.
2. B. Rajalakshmi, S. Saranya, S. Surya and A. Saliha Bathool., "Electronic Nose System for protecting workers in sewage system," 2022 *Second International Conference on Artificial Intelligence and Smart Energy (ICAIS)*, Coimbatore, India, Feb 2022, pp. 1689-1692, doi: 10.1109/ICAIS53314.2022.9743047.
3. M Kanthimathi, S Surya, S Usha, D Vaithiyanathan, "Energy efficient spatial modulation for WSN", in International Conference on Communication, Computing and IoT, March 2022.
4. S Surya, M Kanthimathi and B Rajalakshmi, "Performance analysis of multiuser MIMO OFDM systems incorporating feedback delay and feedback error ", Journal of Physics: Conference Series, doi:10.1088/1742-6596/1921/1/012012.
5. V. Sasikala, J. Arunarasi, S. Surya, N. Shivaanivarsha, G. R. S and G. A, "Transforming Healthcare with Deep Learning Cardiovascular Disease Prediction," 2023 International Conference on Ambient Intelligence, Knowledge Informatics and Industrial Electronics (AIKIIE), Ballari, India, 2023, pp. 1-7, doi: 10.1109/AIKIIE60097.2023.10390290.
6. Surya, S., Yogesh, V., Varsha, S., Sandeep Krishnan, S., & Madhan, H. "Design of Piezoelectric-Enabled Wireless Sensor Nodes: Self-Powered Solutions." 2023 *Intelligent Computing and Control for Engineering and Business Systems (ICCEBS)*. IEEE, 2023.
7. S. Saranya, S. , Sudha, G. , Subbiah, S. ,Rajalakshmi, B. , Surya S, "Design of an Efficient Mac Unit for DSP Applications", 2023 Intelligent Computing and Control for Engineering and Business Systems (ICCEBS), IEEE, 2023.
8. Surya, S., Vasanth, N., Saranya, S., & Samuvel Arockiyam, J."Utilizing Lora For Real Time Traffic Signal Control In Ambulance Dispatch Systems." 2024 *International Conference on Power, Energy, Control and Transmission Systems (ICPECTS)*. IEEE, 2024.

9. V. A. Velvizhi, M. Anbarasan, S. Surya, J. K, R. Sandhya and K. Varsha, "Immaculate Water Tank," *2024 International Conference on Power, Energy, Control and Transmission Systems (ICPECTS)*, Chennai, India, 2024, pp. 1-5, doi: 10.1109/ICPECTS62210.2024.10780286.8.

10. B. Rajalakshmi, G. Sudha, S. Surya, H. R. M, J. A and M. M. S G, "IoT Smart Parking with Android App," *2025 International Conference on Computing and Communication Technologies (ICCCT)*, Chennai, India, 2025, pp. 1-6, doi: 10.1109/ICCCT63501.2025.11019695.

### Conference Details

1. Vishnu MS, S.Surya , Vedanarayanan SR , Hrithik Kumar V, “Poultry Management System with detection of sick broilers”, *International Journal of Engineering Technology and Management Sciences*, DOI:10.46647/ijetms.2022.v06i04.0040

2. B.Rajalakshmi, S.Surya , "Voltage and Other Parameters Monitoring System Using Android Mobile Application", *International Journal of Scientific Research & Engineering Trends*, Volume 7, Issue 4, July-Aug-2021.

3. B. Rajalakshmi and S. Surya, “Power Generation Using Piezoelectric Material”, *International Journal of Recent Advances in Multidisciplinary Topics IJRAMT*, vol. 2, no. 7, pp. 249–252, Jul. 2021.

4. E. Seethalakshmia, S. Suryab, G. Jeyalakshmic, B. Hemalathad, S. Vinoth Kumare, “Smart Car with IoT enabled Remote Driving Assistance” , *Turkish Online Journal of Qualitative Inquiry (TOJQI)*Volume 12, Issue 7, July, 2021 :13932-13944

### Online Courses details

Sl. No	Title	Certification Authority	Month/Year
1	Analog Circuits	NPTEL	Feb-March 2018
2	Fundamentals of Network Communication	University of Colorado (Coursera)	Oct 21,2020
3.	Introduction to the Internet of Things and Embedded Systems	University of California, (Coursera)	June 21,2020

4.	The Sustainable Development Goals – A global, transdisciplinary vision for the future	University of Copenhagen (Coursera)	June 14, 2020
5.	Introduction to Python	Coursera Project Network	June 14, 2020
6.	Support Vector Machines with scikit-learn	Coursera Project Network	June 14, 2020

7.	Support Vector Machines in Python, From Start to Finish	Coursera Project Network	June 14, 2020
8.	Image Compression with K-Means Clustering	Coursera Project Network	June 14, 2020
9.	Introduction to Project Management	Simplilearn	Apr 18,2020
10.	Arduino step by step	Udemy	March 30,2020
11.	Introduction to IOT	Simplilearn	Apr 7,2020
12.	Electromagnetic waves in Guide and Wireless Media	IITK (NPTEL)	Feb- Apr 2021
13.	Industry4.0 and IoT	IITK (NPTEL)	July-Oct 2022
14.	Accreditation and Outcome Based Learning	IITM(NPTEL)	Aug - Oct 2023
15.	Ethics in Engineering Practice	IITKH(NPTEL)	Feb-Apr 2024
16.	An Introduction to Information Theory	IITK (NPTEL)	Jan-Mar 2024
17.	Communication Networks	IITKH(NPTEL)	Jan-Apr 2024
18.	Effective Engineering Teaching In Practice	IITM (NPTEL)	Jan-Feb 2024
19.	Teaching And Learning in Engineering (TALE)	IISC Bangalore	Jan-Feb 2024
20.	Technical Communication for Engineers	IITR (NPTEL)	Jul-Aug 2024

21	Designing Learner-Centric E-Learning in STEM Disciplines	IITB (NPTEL)	Aug-Sep 2024
22	Simulation of Communication Systems Using MATLAB	IITG (NPTEL)	Jul-Oct 2024
23	Development Research Methods	IITG (NPTEL)	Aug-Oct 2024
24	Principles of Signals and Systems	IITK (NPTEL)	Jan-Apr 2025

25	Signal Processing Techniques And Its Applications	IITKH(NPTEL)	Jan-Apr 2025
26	Digital circuits	IITKH(NPTEL)	Jul-Oct 2025
27	System Design through Verilog	IITG (NPTEL)	Jul-Oct 2025

### Patent:

S.No.	Type	Title	Year
1	Application patent (published)	A Method and device for the deformation of the waste containers through the pneumatic operated.	2020
2	Application patent (published)	Smart Antenna for improved signal coverage with advanced Beamforming and Steering.	2024
3	Application patent (published)	Aqua smurf	2025