

Dr. SASIKALA V				
Designation:	Associate Professor.			
Qualification:	ME., PhD			
Area of specialization:	Optical Computing, Embedded Systems, Data science			
Experience : (As On Nov 2020)	Industrial Experience	Teaching Experience		
	-	20		
Number of workshop / FDP attended:	Number of Workshops	Number of FDPs		
	14	27		
Publications:	Conference		Journal	
	National	International	National	International
	5	31	3	32
Patents:	International : 01 India: 03			
Online Course	30			
Professional Body Membership:	<ul style="list-style-type: none"> ▪ Life Fellow Member (No. L.939) in OSI- Optical Society of India ▪ Life member in International Association of Engineers (Member No: 233758) ▪ Senior Member in IEEE; Membership number: 98059247 ▪ Professional society member in IEEE Photonics and IEEE computational Intelligence Society ▪ Reviewer of International conferences 			
Staff Achievements:	<ul style="list-style-type: none"> ▪ ATL SARTHY ▪ NPTEL mentor 			

- NPTEL STAR
- NPTEL Believer
- Best Atal Mentor
- NPTEL Translator

- Completed datascience domain in NPTEL
- Received Best contributions award for admissions
- Received the Best Paper Award for the title” Design of compact sierpinsky Gasket fractal multiband antenna for wireless applications” in Virtual International Conference on Futuristic Communication and Network Technologies (VICFCNT 2020) in Vellore Institute of Technology, Chennai during Nov 2020
- Remarkable ability to teach, inspire and develop young people
- Supervised undergraduate and postgraduate level projects
- Published over 10 articles in peer-reviewed journals
- Several publications to credit and presented research papers at National and International conferences organized by institutes like National Taiwan University of Science and Technology, Indian Institute of Technology, Vellore Institute of Technology, CAPE Institute of Technology, PITAM, etc.
- Resource person for Faculty Development Program and guest lecture to students
- Appreciated as the Best Teacher for the semester period Jan ’14 to May’14
- Gold Medalist in M.E- Embedded System Technologies, College of Engineering, Anna University, Chennai in 2011
- Received the Best Paper Award for the title “Reconfigurable Cryptographic RISC with Hybrid Algorithm ” in National Conference on Recent Advances in Communication, Electrical and Electronics and Information Technology held at Prathyusha Institute of Technology and Management, Thiruvallur and organized by Institution of Electronics and Telecommunication Engineers, Chennai Centre on 28th Feb 2011
- Received the most consistent and active mentor for the ATL Tinkerpreneur Bootcamp Program

Workshop Details:			
Sl.N o.	Title	Venue	Month/Year
1	Introduction to Intelligent Transportation	IEEE ITSS	Mar 2025
2	Teaching methodologies in Higher order knowledge level	IEEE Education society	Jun 2024
3	Examination reforms workshop	Online mode in Chitkara University , Punjab associated with AICTE	Jul 2021
4	SciLab: An effective open source tool for Computer vision and Machine Learning	Vidya Jyothi Institute of Technology	Nov 2020
5	Recent emerging Trends in Wireless communication using IoT	Vidya Jyothi Institute of Technology	Nov 2020
6	Creation of e-content	UTA	April 2020
7	Emerging Trends in Optical Technologies with Hands-on Training	VIT, Chennai	December 2018
8	Photonic Component Design	VIT, Chennai	March 2018
9	OptSim – A software for Optical Communication and Networks	VIT, Chennai	February 2018
10	Internet Of Things	IETE, Chennai Center	November 2017
11	Next Generation Networks and Data security	College of Engineering, Anna University, Chennai	January 2016
12	Frontiers in Photonics & Inauguration of IEEE Photonics Chapter-Chennai Section.	VIT, Chennai	April 2015
13	Institution Building – Creating an Institute of Excellence	VIT, Chennai	July 2014
14	Wireless Networks	Regional Telecom Training Centre	March 2011
15	Opportunities and Innovations in Mobile Broadband	SSN College of Engineering	December 2010
16	Embedded Systems	College of Engineering, Anna University, Chennai	February 2009

FDP Details:

Sl.No	Title	Venue	Month/Year
1	Technical Communication for Engineers	NPTEL	Aug 2025
2	Teaching and Learning in General Programs: TALG	NPTEL	Aug 2025
3	Linear programming and its applications to computer science	NPTEL	Apr 2025
4	Introduction to Machine Learning	NPTEL	Apr 2025
5	Data Analytics with Python	NPTEL	Apr 2025
6	Business Intelligence & Analytics	NPTEL	Apr 2025
7	Empowering Healthcare with AI and ML: Advances and Applications	KPR Institute of Engineering and Technology	Feb 2025
8	SMART COMMUNICATION IN IOT : SECURITY & FUTURE APPLICATIONS AND POSSIBILITIES	St.Joseph College of Engineering	Feb 2025
9	Exploring the frontiers of Artificial Intelligence: Theory, Application and Ethics	Prathyusha Engineering College	July 2024
10	Python for Data Science	NPTEL	Feb 2024
11	QUANTUM COMPUTING AND ITS FUTURE SCOPE	Sri Sairam Engineering College	Dec 2023
12	Deep Learning	NPTEL	Oct 2023
13	UHV 2	Sri Sairam Engineering College 25/7/2022 to 30/7/2022	July 2022
14	Cloud Computing	NPTEL	OCT 2021

15	AUGMENTED REALITY/VIRTUAL REALITY AND ITS APPLICATIONS	AICTE Training And Learning (ATAL) Academy & Sri Sairam Engineering College Chennai	Oct 2021
16	Capacity Building through Emotional Intelligence for Women	DR.SNSRAJALAKSHMI COLLEGE OF ARTS AND SCIENCE.	Aug 2021
17	Artificial Intelligence on Robotics	Sri Sairam Engineering College Chennai	Dec 2020
18	Internet of Things (IoT)	Sri Sairam Engineering College Chennai	Dec 2020
19	Implementation of Artificial Intelligence for solving digital signal and image processing problems	Vidya Jyothi Institute of Technology	Nov 2020
20	Design Thinking	AICTE Training and Learning Academy (ATAL)	Oct 2020
21	Machine Learning and Data Manipulation using R and SQL	Sri Sairam Engineering College Chennai	Nov 2019
22	Emerging trends in optical technologies with Hands on training	VIT, Chennai	December 2018
23	Engineering Teaching Pedagogy and Teaching Learning Process	Sri Sairam Engineering College Chennai	December 2018
24	Optical Communication and Networks	Sri Sairam Engineering College Chennai	June 2017
25	IOT using Raspberry Pi	Sri Sairam Engineering College Chennai	Nov 2016
26	Signals and Systems	Velammal Engineering College, Chennai.	June 2014
27	Hands on Training on Design Finishing for Chip tapeout	R.M.K. Engineering College, Chennai.	June 2013

Conference Details:			
Sl. No.	Title	Venue	Month/Year
1	IOT enabled Intelligent streetlight with adaptive brightness and 360 degree solar tracking	Technology and Management for sustainable development, Sri Sairam Engineering College	Feb 2026
2	Real-Time Hospital Recommendation System with Machine Learning for Traffic-Aware Routing, Patient Ratings, and Dynamic Resource Management	5th IEEE International Conference on Computing and Communication Technologies (ICCCT'25), Sri Sairam Engineering College	Apr 2025
3	AGRICULTURE PRODUCT SELLING SYSTEM	5th IEEE International Conference on Computing and Communication Technologies (ICCCT'25), Sri Sairam Engineering College	Apr 2025
4	On Field Third Eye	2024 International Conference on Communication, Computing and Internet of Things (IC3IoT), Sri Sairam Engineering College	Apr 2024
5	Performance Analysis of Projectile Motion Using IoT	2024 International Conference on Communication, Computing and Internet of Things (IC3IoT), Sri Sairam Engineering College	Apr 2024
6	Design of Microstrip Patch Antenna as Communication Relay for Disaster Management	2024 International Conference on Communication, Computing and Internet of Things (IC3IoT-2024), Sri Sairam Engineering College	Apr 2024
7	Transforming Healthcare with Deep Learning Cardiovascular Disease Prediction	International Conference on Ambient Intelligence, Knowledge Informatics and Industrial Electronics (AIKIIIE), Rao Bahadur Y. Mahabaleswarappa Engineering College Affiliated to VTU, Belgaum, Approved by AICTE, New Delhi, NAAC A+ Accredited	Feb 2023
8	Auto drive Assist system	National Conference on Communication and signal processing system	Oct 2021

9.	Deep learning based detection and categorization of infant brain MRI abnormalities	International conference on Technological innovations in control, communication	Aug 2022 Easwari engineering college
10.	Fake Profile Identification in Social Network using Machine learning and NLP	International Conference on Communication, Computing & Internet of Things IC3IOT- 2022	Mar 2022
11	Design of compact sierpinsky Gasket fractal multiband antenna for wireless applications	Virtual International Conference on Futuristic Communication and Network Technologies (VICFCNT 2020) in Vellore Institute of Technology, Chennai.	Nov 2020
12	Inverse Intermodulation based transition encoder for minimal power consumption	Virtual International Conference on Futuristic Communication and Network Technologies (VICFCNT 2020) in Vellore Institute of Technology, Chennai.	Nov 2020
13	Design of Novel compact Multiband Hexagonal slot antenna for wireless communication	International Conference on Communication, Computing & Internet of Things IC3IOT- 2020	Feb 2020
14	Smart Industrial Automation electrical Gripper	IETE Zonal Seminar- Chennai Centre	Sep 2019
15	Simulation Study on Performance Analysis of All Optical Comparator	IONS Exeter,OSA ConferenceAt: University of Exeter,Exeter,UK	May 2019
16	Performance analysis of all-optical reversible combinational circuits using SOA-MZI-A Simulation Study	IONS Exeter,OSA ConferenceAt: University of Exeter,Exeter,UK	May 2019
17	Performance analysis of Multi logic all optical structure based on non linear signal	International Conference on Recent trends in Electronics, computing and communication Engineering (ICRTECC-19)	April 2019

	processing in SOA		
18	Experimental setup for Quantum cryptography using single Polarized Photons	National Conference on Emerging fields in Engineering Science and Technology	March 2019
19	Effects of Cross Phase Modulation and Four Wave Mixing in DWDM Optical Systems using RZ and NRZ signal	International Conference on NextGen Electronic Technologies: Silicon to Software, VIT, Chennai	March 2017
20	Design of Efficient All Optical Switching Encoder Using XOR gate based on SOA Non Linearity	Proceedings of OPTIC 2016, National Taiwan University of Science and Technology, Taiwan Photonics Society	December 2016
21	Design of Efficient All Optical Switching Schemer Using XOR gate based on SOA Non Linearity	Photonics 2016, Indian Institute of Technology, Kanpur, India	December 2016
22	Adaptive Hybrid Transmission Mechanism for Free Space Optical Communication Network.	International Conference on Emerging Engineering Trends held at Magna College of Engineering, Chennai	June 2016
23	A Review on All Optical Circuits	ICBWT-2016, SriSairam Engineering College	27 th and 28 th Feb 2015
24	Reconfigurable Cryptographic RISC processors with various Algorithms- Success and Challenges	National Conference- Trenzine 2k14 conducted by Magna College of Engineering, Chennai	5 th Sep 2014
25	Reconfigurable Architecture by using AES-CM system	International Conference on Emerging trends in Information and Communication Engineering held at CAPE Institute of Technology, Leveingipuram	6 th April 2013
26	GPS Car Parking System	National Conference- Trenzine 2k13 conducted by Magna College of Engineering, Chennai	30 th Aug 2013

27	Reconfigurable Cryptographic RISC with Hybrid Algorithm	National Conference on Recent Advances in Communication, Electrical and Electronics and Information Technology held at PITAM and organized by IETE Chennai Centre	28 th Feb 2011
28	More Secured Reconfigurable cryptographic RISC processor	International Conference in Magna on Emerging Engineering Trends held at Magna College of Engineering, Chennai	11 th and 12 th Apr 2011

Online course Details:

Sl.No.	Title	Organization	Month/Year
1	Technical Communication for Engineers	NPTEL	Aug 2025
2	Teaching and Learning in General Programs: TALG	NPTEL	Aug 2025
3	Data Analytics with Python	NPTEL	April 2025
4	Introduction to Machine Learning	NPTEL	April 2025
5	Linear programming and its applications to computer science	NPTEL	April 2025
6	Deep Learning	NPTEL	Oct 2023
7	Python for Data Science	NPTEL	Apr 2024
8	Patent Drafting for Beginners	NPTEL	Mar 2022
9	Cloud computing	NPTEL	Oct 2021
10	Step into Robotic Process Automation	GUVI	June 2020
11	AI for Everyone	Coursera	May 2020
12	Neural networks and Deep Learning	Coursera	May 2020

13	Introduction to Big data	UCSanDiego (Coursera)	May 2020
14	Machine Learning for All	University of London Johns Hopkins University (Coursera)	May 2020
15	Data Science in real life	University of Colorado (Coursera)	May 2020
16	Classical Cryptosystems and core concepts	University of London(Coursera)	May 2020
	Understanding Research Methods	Johns Hopkins University (Coursera)	May 2020
17	R Programming Programing for Everybody (Getting started with Python)	University of Michigan (Coursera)	May 2020
18			
19	The future of skills- Education, Employment and Entrepreneurship	ICTACADEMY	May 2020
20	Write Professional Emails in English	Georgia Institute of Technology	May 2020
21	Introduction to IOT	Simplilearn	Apr 2020
22	Leading in a VUCA world	ICTACADEMY	Apr 2020
23	Deep Learning: Hands on Artificial Neural Networks	Udemy	Nov, 2019
24	Data science for Engineers	NPTEL	Sep 2019
25	Fiber Optics	NPTEL	March 2018
26	Programming, data structures and algorithms using Python	NPTEL	March 2018

Journal Details:			
Sl.N o.	Title	Journal Name	Volume / Date
1	Cutting-edge Facial Authentication System in Matlab (CFAS-M)	2024 International Conference on Communication, Computing and Internet of Things (IC3IoT)	Apr 2024
2	Deep Learning-Based Automated System for Multi-Classification of Plant Diseases in Real-Time Environments	2024 International Conference on Communication, Computing and Internet of Things (IC3IoT)	Apr 2024
3	Performance Analysis of Projectile Motion Using IoT	2024 International Conference on Communication, Computing and Internet of Things (IC3IoT)	Apr 2024
4	Integrating Active Contours and Decision Trees for Systematic Hemorrhage Detection	2023 Intelligent Computing and Control for Engineering and Business Systems (ICCEBS)	Dec 2023
5	Cancer Chemoradiation Powered by Nanotechnology: Realizing the Full Potential of Radiotherapy with Gold NP-BM	2023 Intelligent Computing and Control for Engineering and Business Systems (ICCEBS)	Dec 2023
6	Effect of CNG Induction on the Performance and Emission Characteristics of a DI Diesel Engine Fuelled with Biodiesel Ethanol Blends	Int. J. Vehicle Structures & Systems	15/2023
7	Transforming healthcare with deep learning cardiovascular disease prediction	2023 International Conference on Ambient Intelligence, Knowledge Informatics and Industrial Electronics (AIKIIE)	Nov 2023

8	Integrating digital twins with AI for real-time intrusion detection in smart infrastructure networks	International Conference on Intelligent Algorithms for Computational	2024
9	EEG based epileptic seizure detection methods	AIP Conference Proceedings	Sep 2022
10	Gesture - Controlled Contactless Switch With OLED Display	IEEE Digital Explorer	May 2022
11	Fake Profile Identification in Social Network using Machine Learning and NLP	IEEE Digital Explorer	May 2022
12	VIRTUAL REALITY BASED FOOD SUPPLY SYSTEM IN SMART RESTAURANT FOR MENU ORDERING SYSTEM	International Journal of Engineering Technology and Management Sciences	July – 2022
13	A Low Cost Effective Contrast Therapy Using Controlled Peltier Effect	Turkish Online Journal of Qualitative Inquiry (TOJQI)	Vol. 12 No. 7 (2021)
14	Inverse Intermodulation-Based Transition Encoder Scheme with Minimal Power Consumption	Lecture notes in Electrical Engineering	792/ Dec 2021
15	Design of Compact Sierpinski Gasket Fractal Multi-band Antenna for Wireless Applications	Lecture notes in Electrical Engineering	792/ Dec 2021
16	Evaluation and Troubleshooting of Tactile Sensors available in Robotic Arm	Robotics and automation book chapter	Feb 2021
17	Smart Greenhouse By Using Arduino Mega and IoT	Solid State Technology	Dec 2020
18.	Performance analysis and parameter optimization of all-optical encryption using the FWM effect in semiconductor optical amplifier	Journal of optical communications	Sep 2020

19	Emerging Trend in Inter-Train Communication System	Test Engineering and Management	Apr 2020
20	Performance analysis of multilogic all-optical structure based on nonlinear signal processing in SOA	Journal of Optics	May 2020
21	Smart Industrial automation Electrical Gripper	Journal of research in Instrumentation and Control engineering	May 2020
22	Exploration of indispensable properties of textile-grade glass fibers/white caustic treated banana fiber hybrid composite	Materialstoday: Proceedings	Mar 2020
23	All optical switching and associated technologies: a review.	Journal of Optics	(2018): 1-11
24	Effects of Cross-phase Modulation and Four-Wave Mixing in DWDM Optical Systems Using RZ and NRZ Signal.	Optical And Microwave Technologies. Springer, Singapore	2018. 53-63
25.	Adaptive Hybrid Transmission Mechanism for Free Space Optical Communication Network	International Journal of Innovative Research in Science, Engineering and Technology, IJRSET	Volume 4, Special Issue 2, Feb 2015
26.	Lightweight scheme to detect the New Identities of Sybil Attacks in MANETS	International Journal of Engineering Research and Technology, IJERT	Vol. 3, Issue. 03, March 2014

Patent Details:

Sl No	Patent Title	Faculty & Student Involved	Patent Application Number	Status
1	A Power generating kite system-Production of electricity from the wind.	Ms.G.Shanthakumari Dr.E.Priya Dr.J.Arunarasi Ms.V.Sasikala Ms.C.N.Savithri Ms.R.Chitra Ms.S.Josephin Ida Litrizia Ms.M.Shabana Parveen Ms.B.Rajalakshmi Ms.S.Saranya	202041004990 A 05/02/2020 & 14/02/2020	Published
2	On field third eye	Inventor(s): Sasikala V, Gershom Devaraj, Santana Krishnan, Dharshini, Kirupashini, Bhuvaneshwar, Tamil Amudhan, Assignee: Sri Sairam Engineering College	Application No.20224103765 4 A 20/10/2023	Published
3	Vehicle Detection	Inventor(s): Sasikala V, Gershom Devaraj, Jegadeesh, Jayasakthi, Mathumitha, Assignee: Sri Sairam Engineering College	202241024754 27/04/2022	Filed
4	Embedded Javelin throw Analytics	Inventor(s): Sasikala V, Jegadeesh, Jayasakthi, Mathumita, Assignee: Sri Sairam Engineering College	No.20224102476 5 A Publication Date: 09/06/2023	Published
5	Machine Learning-enabled wireless communication network	Dr. Annamalai S. K Dr. B. Vasudevan Dr. V. Sasikala Dr. M. Kumar Mr. B. Karthikeyan Dr. A. Sridevi	No.20254100161 8 A Publication Date: 10/01/2025	Published
6	A novel system and method for integration of	Dr. Anurag Vijay Dr. Thoram Saran Dr. V. Sasikala	No.20251100268 7 A	Published

	internet of things (iot) with 5g networks	Dr. T. V. V. Satyanarayana Ms. C. P. Jetlin Manjunathan Alagarsamy	Publication Date : 28/02/2025	
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Reviewer
<ol style="list-style-type: none"> 1. INTERNATIONAL CONFERENCE ON COMMUNICATION, COMPUTING & INTERNET OF THINGS (IC31oT-2022) 2. International conference on Distributed computing and optimization techniques (ICDCOT-2024) 3. International Conference on Applied Intelligence and sustainable computing (ICAISC 2023)

Startup	
Mice Berry India Private Ltd. Dr.V.Sasikala-Associate Professor/ECE	Performance Analysis of Projectile motion using IOT-Funded by EDII-Innovation Voucher Programme of Rs.200000