



**Dr. SASIKALA V**

<b>Designation:</b>	<b>Associate Professor</b>			
<b>Qualification:</b>	<b>ME., PhD</b>			
<b>Area of specialization:</b>	<b>Optical Computing, Embedded Systems</b>			
<b>Experience : (As On Nov 2022)</b>	<b>Industrial Experience</b>		<b>Teaching Experience</b>	
	<b>-</b>		<b>17</b>	
<b>Number of workshop / FDP attended:</b>	<b>Number of Workshops</b>		<b>Number of FDPs</b>	
	<b>14</b>		<b>15</b>	
<b>Publications:</b>	<b>Conference</b>		<b>Journal</b>	
	<b>National</b>	<b>International</b>	<b>National</b>	<b>International</b>
	<b>5</b>	<b>13</b>	<b>4</b>	<b>17</b>
<b>Patents:</b>	<b>International : 01 India: 03</b>			
<b>Online Course</b>	<b>19</b>			
<b>Professional Body Membership:</b>	<ul style="list-style-type: none"> <li>▪ Life Fellow Member (No. L.939) in OSI- Optical Society of India</li> <li>▪ Life member in International Association of Engineers (Member No: 233758)</li> <li>▪ Senior Member in IEEE; Membership number: 98059247</li> <li>▪ Professional society member in IEEE Photonics and IEEE computational Intelligence Society</li> <li>▪ Reviewer of IC3IoT International conference 2022</li> </ul>			
<b>Staff Achievements:</b>	<ul style="list-style-type: none"> <li>▪ Received Best contributions award for admissions 2022</li> <li>▪ 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</li> <li>▪ Remarkable ability to teach, inspire and develop young people</li> </ul>			

	<ul style="list-style-type: none"> <li>▪ Supervised undergraduate and postgraduate level projects</li> <li>▪ Published over 5 articles in peer-reviewed journals</li> <li>▪ 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.</li> <li>▪ Resource person for Faculty Development Program and guest lecture to students</li> <li>▪ Appreciated as the Best Teacher for the semester period Jan '14 to May'14</li> <li>▪ Gold Medalist in M.E- Embedded System Technologies, College of Engineering, Anna University, Chennai in 2011</li> <li>▪ 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 28<sup>th</sup> Feb 2011</li> <li>▪ Received the most consistent and active mentor for the ATL Tinkerpreneur Bootcamp Program</li> </ul>
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Workshop Details:	Sl.N o.	Title	Venue	Month/Year
	1.	Examination reforms workshop	Online mode in Chitkara University, Punjab associated with AICTE	Jul 2021
	2.	SciLab: An effective open source tool for Computer vision and Machine Learning	Vidya Jyothi Institute of Technology	Nov 2020
	3.	Recent emerging Trends in Wireless communication using IoT	Vidya Jyothi Institute of Technology	Nov 2020
	4.	Creation of e-content	UTA	April 2020
	5.	Emerging Trends in Optical Technologies with Hands-on Training	VIT, Chennai	December 2018

	<b>6.</b>	Photonic Component Design	VIT, Chennai	March 2018
	<b>7.</b>	OptSim – A software for Optical Communication and Networks	VIT, Chennai	February 2018
	<b>8.</b>	Internet Of Things	IETE, Chennai Center	November 2017
	<b>9.</b>	Next Generation Networks and Data security	College of Engineering, Anna University, Chennai	January 2016
	<b>10</b>	Frontiers in Photonics & Inauguration of IEEE Photonics Chapter-Chennai Section.	VIT, Chennai	April 2015
	<b>11</b>	Institution Building – Creating an Institute of Excellence	VIT, Chennai	July 2014
	<b>12</b>	Wireless Networks	Regional Telecom Training Centre	March 2011
	<b>13</b>	Opportunities and Innovations in Mobile Broadband	SSN College of Engineering	December 2010
	<b>14</b>	Embedded Systems	College of Engineering, Anna University, Chennai	February 2009
<b>FDP Details:</b>	<b>Sl.No.</b>	<b>Title</b>	<b>Venue</b>	<b>Month/Year</b>
	<b>1.</b>	UHV 2	Sri SairamEngineering College 25/7/2022 to 30/7/2022	July 2022
	<b>2.</b>	Cloud Computing	NPTEL	OCT 2021

	<b>3.</b>	AUGMENTED REALITY/VIRTUAL REALITY AND ITS APPLICATIONS	AICTE Training And Learning (ATAL) Academy& Sri Sairam Engineering College Chennai	Oct 2021
	<b>4</b>	Capacity Building through Emotional Intelligence for Women	DR.SNSRAJALAKS HMI COLLEGE OF ARTS AND SCIENCE.	Aug 2021
	<b>5.</b>	Artificial Intelligence on Robotics	Sri Sairam Engineering College Chennai	Dec 2020
	<b>6.</b>	Internet of Things (IoT)	Sri Sairam Engineering College Chennai	Dec 2020
	<b>7.</b>	Implementation of Artificial Intelligence for solving digital signal and image processing problems	Vidya Jyothi Institute of Technology	Nov 2020
	<b>8.</b>	Design Thinking	AICTE Training and Learning Academy (ATAL)	Oct 2020
	<b>9.</b>	Machine Learning and Data Manipulation using R and SQL	Sri Sairam Engineering College Chennai	Nov 2019
	<b>10</b>	Emerging trends in optical technologies with Hands on training	VIT, Chennai	December 2018
	<b>11</b>	Engineering Teaching Pedagogy and Teaching Learning Process	Sri Sairam Engineering College Chennai	December 2018
	<b>12</b>	Optical Communication and Networks	Sri Sairam Engineering College Chennai	June 2017
	<b>13</b>	IOT using Raspberry Pi	Sri Sairam Engineering College Chennai	Nov 2016

	<b>14</b>	Signals and Systems	Velammal Engineering College, Chennai.	June 2014
	<b>15</b>	Hands on Training on Design Finishing for Chip tapeout	R.M.K. Engineering College, Chennai.	June 2013
<b>Conference Details:</b>	<b>Sl. No.</b>	<b>Title</b>	<b>Venue</b>	<b>Month/Year</b>
	<b>1</b>	Auto drive Assist system	National Conference on Communication and signal processing system	Oct 2021
	<b>2</b>	Deep learning based detection and categorization of infant brain MRI abnormalities	International conference on Technological innovations in control, communication	Aug 2022 Easwari engineering college
	<b>3</b>	Fake Profile Identification in Social Network using Machine learning and NLP	International Conference on Communication, Computing & Internet of Things IC3IOT- 2022	Mar 2022
	<b>4.</b>	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
	<b>5</b>	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
	<b>6</b>	Design of Novel compact Multiband Hexagonal slot antenna for wireless communication	International Conference on Communication, Computing & Internet of Things IC3IOT- 2020	Feb 2020

	<b>7</b>	Smart Industrial Automation electrical Gripper	IETE Zonal Seminar- Chennai Centre	Sep 2019
	<b>8</b>	Simulation Study on Performance Analysis of All Optical Comparator	IONS Exeter,OSAConference At: University of Exeter,Exeter,UK	May 2019
	<b>9</b>	Performance analysis of all-optical reversible combinational circuits using SOA-MZI-A Simulation Study	IONS Exeter,OSAConference At: University of Exeter,Exeter,UK	May 2019
	<b>10</b>	Performance analysis of Multi logic all optical structure based on non linear signal processing in SOA	International Conference on Recent trends in Electronics, computing and communication Engineering ( ICRTECC-19)	April 2019
	<b>11</b>	Experimental setup for Quantum cryptography using single Polarized Photons	National Conference on Emerging fields in Engineering Science and Technology	March 2019
	<b>12</b>	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
	<b>13</b>	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
	<b>14</b>	Design of Efficient All Optical Switching Schemer Using XOR gate based on SOA Non	Photonics 2016, Indian Institute of Technology, Kanpur,India	December 2016

		Linearity		
	<b>15</b>	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
	<b>16</b>	A Review on All Optical Circuits	ICBWT-2016, SriSairam Engineering College	27 <sup>th</sup> and 28 <sup>th</sup> Feb 2015
	<b>17</b>	Reconfigurable Cryptographic RISC processors with various Algorithms- Success and Challenges	National Conference- Trenzine 2k14 conducted by Magna College of Engineering, Chennai	5 <sup>th</sup> Sep 2014
	<b>18</b>	Reconfigurable Architecture by using AES-CM system	International Conference on Emerging trends in Information and Communication Engineering held at CAPE Institute of Technology, Leveengipuram	6 <sup>th</sup> April 2013
	<b>19</b>	GPS Car Parking System	National Conference- Trenzine 2k13 conducted by Magna College of Engineering, Chennai	30 <sup>th</sup> Aug 2013
	<b>20</b>	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 <sup>th</sup> Feb 2011
	<b>21</b>	More Secured Reconfigurable cryptographic RISC processor	International Conference in Magna on Emerging Engineering Trends held at Magna College of Engineering, Chennai	11 <sup>th</sup> and 12 <sup>th</sup> Apr 2011

Online course Details:	Sl.No.	Title	Organization	Month/Year
	1	Patent Drafting for Beginners	NPTEL	Mar 2022
	2	Cloud computing	NPTEL	Oct 2021
	3.	Step into Robotic Process Automation	GUVI	June 2020
	4.	AI for Everyone	Coursera	May 2020
	5.	Neural networks and Deep Learning	Coursera	May 2020
	6.	Introduction to Big data	UCSanDiego (Coursera)	May 2020
	7.	Machine Learning for All	University of London Johns Hopkins University (Coursera)	May 2020
	8.	Data Science in real life	University of Colorado (Coursera)	May 2020
	9.	Classical Cryptosystems and core concepts	University of London(Coursera)	May 2020
	10.	Understanding Research Methods	Johns Hopkins University (Coursera)	May 2020
	11.	R Programming Programing for Everybody (Getting started with Python)	University of Michigan (Coursera)	May 2020
	12.	The future of skills-Education, Employment and Entrepreneurship	ICTACADEMY	May 2020
	13.	Write Professional Emails in English	Georgia Institute of Technology	May 2020
	14.	Introduction to IOT	Simplilearn	Apr 2020
	15.	Leading in a VUCA world	ICTACADEMY	Apr 2020
	16.	Deep Learning: Hands on Artificial Neural	Udemy	Nov, 2019



		Networks		
	17.	Data science for Engineers	NPTEL	Sep 2019
	18.	Fiber Optics	NPTEL	March 2018
	19.	Programming, data structures and algorithms using Python	NPTEL	March 2018

<b>Journal Details:</b>	<b>Sl.No.</b>	<b>Title</b>	<b>Journal Name</b>	<b>Volume/Date</b>
	1	EEG based epileptic seizure detection methods	AIP Conference Proceedings	Sep 2022
	2	Gesture - Controlled Contactless Switch With OLED Display	IEEE Digital Explorer	May 2022
	3	Fake Profile Identification in Social Network using Machine Learning and NLP	IEEE Digital Explorer	May 2022
	4	VIRTUAL REALITY BASED FOOD SUPPLY SYSTEM IN SMART RESTAURANT FOR MENU ORDERING SYSTEM	International Journal of Engineering Technology and Management Sciences	July – 2022
	5	A Low Cost Effective Contrast Therapy Using Controlled Peltier Effect	Turkish Online Journal of Qualitative Inquiry (TOJQI)	Vol. 12 No. 7 (2021)
	6	Inverse Intermodulation-Based Transition Encoder Scheme with Minimal Power Consumption	Lecture notes in Electrical Engineering	792/ Dec 2021
	7	Design of Compact Sierpinski Gasket Fractal Multi-band Antenna for Wireless Applications	Lecture notes in Electrical Engineering	792/ Dec 2021

	<b>8</b>	Evaluation and Troubleshooting of Tactile Sensors available in Robotic Arm	Robotics and automation book chapter	Feb 2021
	<b>9</b>	Smart Greenhouse By Using Arduino Mega and IoT	Solid State Technology	Dec 2020
	<b>10</b>	Performance analysis and parameter optimization of all-optical encryption using the FWM effect in semiconductor optical amplifier	Journal of optical communications	Sep 2020
	<b>11</b>	Emerging Trend in Inter-Train Communication System	Test Engineering and Management	Apr 2020
	<b>12</b>	Performance analysis of multilogic all-optical structure based on nonlinear signal processing in SOA	Journal of Optics	May 2020
	<b>13</b>	Smart Industrial automation Electrical Gripper	Journal of research in Instrumentation and Control engineering	May 2020
	<b>14</b>	Exploration of indispensable properties of textile-grade glass fibers/white caustic treated banana fiber hybrid composite	Materialstoday: Proceedings	Mar 2020
	<b>15</b>	All optical switching and associated technologies: a review.	Journal of Optics	(2018): 1-11
	<b>16</b>	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
	<b>17</b>	Adaptive Hybrid Transmission Mechanism for Free Space Optical Communication Network	International Journal of Innovative Research in Science,	Volume 4, Special Issue 2, Feb 2015

			Engineering and Technology, IJRSET	
	<b>18</b>	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
<b>Patent Details:</b>	<b>A POWER GENERATING KITE SYSTEM- PRODUCTION OF ELECTRICITY FROM THE WIND</b>  <b>Patent dateFiled Feb 14, 2020 Patent issuer and number in 202041004990</b>			