

Dr.ARTHY P S					
Designation:	Assistant Professor				
Qualification:	Ph.D				
Area of specialization:	VLSI WITH IMAGE PROCESSING				
Experience : (As On DEC 2021)	Industrial Experience		Teaching Experience		
	NIL		12 Years		
Number of workshop / FDP attended:	Number of Workshops		Number of FDPs		
	2		8		
Publications:	Conference		Journal		
	National	International	SCI	Scopus	Others
	5	1	2	3	3
Patents:	National		International		
	5				
Professional Body Membership:	IETE-The Institution of Electronics and Telecommunication Engineers - MEMBERSHIP ID:M-504150 IEEE Membership- MEMBERSHIP ID:98538846 IAENG Association of Engineering. - MEMBERSHIP ID: 316107 IAAC International Association of Academic Plus Corporate Membership:FRTJQC-CE001179				

Staff Achievements:	<p>1. Completed NPTEL DOMAIN SCHOLARS in two domain “Communication and Signal Processing” and “Advance Faculty Domain”.</p> <p>2. Received “Best Mentor” at Sri Sai Ram Institute of Technology in the year 2024.</p> <p>3. Received “Best Project Guided award” for the Year 2022 from IETE Chennai Centre.</p>			
Workshop Details:	Sl. No.	Title	Venue	Month/Year
	1.	Arduino based system design using Tinker CAD Free Simulator	National Institute of Technical Teachers Training and Research, Chandigarh	2024
	2.	Publish or Perish	Saveetha Engineering College	2018
FDP Details:	Sl. No.	Title	Venue	Month/Year
	1.	Exploring Wearable Tech and AI Innovations for personalized Healthcare	Rajalakshmi Engineering College	2024
	2	OBE & NEP 2020	VIT-AP University	2024
	3.	Emerging Trends in Artificial Intelligence and Deep Learning	Sri Sai Ram Institute of Technology	2023
	4.	Applications of Machine Learning and Deep Learning using MATLAB	Vel Tech Multi Tech Dr.Rangarajan Dr.Sakunthala Engineering College,	2022
	5.	Inculcating Universal Human Values in Technical Education	AICTE online	2022

	6.	Introduction to MATLAB with image processing toolbox	Photonics	2021
	7.	Industry 4.0 and AI Based Robotics for Smart Manufacturing Industries	Sree Sastha Engineering college	2020
	8.	Robotics Process Automation and its allied Machine Learning Techniques	VELS Institute of Science and Technology.	2020

Publication Details:

1. Santhakumar, D., Prasanna, R., Sivakumar, M., Aswath, S., **Arthy, P. S.**, & Kanna, R. R. (2025). Enhanced Early Brain Tumor Detection Crossing Blood– Brain Barrier through MRI Images Using Berkeley Wavelet-Transformation-Based Segmentation. *Critical Reviews™ in Therapeutic Drug Carrier Systems*, 42(4). <https://doi.org/10.1615/critrevtherdrugcarriersyst.2025055526> PMID:40460417 **Impact factor 3 (SCI)**.
2. **P. S. Arthy** and A. Kavitha, “Deep Capsule Residual Networks for Better Diagnosis Rate in Medical Noisy Images,” *Intell. Automat. Soft Comput.*, vol. 36, no. 3, pp. 2959–2971, 2023. <https://doi.org/10.32604/iasc.2023.032511> **Impact factor 3 (SCI)**.

International Journals (SCOPUS)

1. **P Vijayakumari**, Ribu Mathew, Dhinakaran Vijayalakshmi, R. Sivakumar, “Dual elliptical core based photonic crystal sensor for detection of ultralow level bioethanol concentration” *Journal of Optics*. Published: 04 February 2022, **Impact factor 2.077(Scopus)**.
2. **Vijayakumari P**, and Sumathi (2019) “Design and Parameter Analysis of Underwater Wireless Optical Communication with Different Water Samples”, 2019, *Journal of Optical Communications*. ISSN: 2191-6322. **(Scopus)**.
3. Rashed, A.N.Z., Tabbour, M.S.F., **Vijayakumari P**. “Numerical Analysis of Optical Properties Using Octagonal Shaped Photonic Crystal Fiber”, 2019, *Journal of Optical Communications*. ISSN: 2191-6322. **(Scopus)**.
4. **Vijayakumari P**, and Sumathi (2018), “Free space optical communication using SIM technique”, *Journal of Advanced Research in Dynamical & Control Systems*, ISSN:1943-023X, Vol. 10, 13- Special Issue, page.no:1174-1183, 2018. **(Scopus)**

International Conference(INDEXED IN SCOPUS)

1. **P.S. Arthy** and A. Kavitha ,“Brain image enhancement and segmentation using anatomically constrained neural networks”, International Journal of Medical Engineering and Informatics 2024, 537-546.
2. **Arthy P S**,Dr.S.Manjula,“Design and implementation of control system 6-UPS medical robot based on FPGA.” in Int. journal of pure and applied Mathematics pg:77-80 vol117, 2017, 1314-3395
3. Babisha John Babu,M.Ishwarya,R.Deepa, **P.S.Arthy** “Smart Control of Home Appliances Using Microwave Radar.” in Int. journal of pure and applied Mathematics, pg:861-867, Vol 119, 2018, 1314-3395
4. Nithya.P, **Arthy.P.S**,Prabhu Kumar.S “Cell-Free DNA Pattern Identification and its Classification using Convolution Neural Network.” in Int. Journal of Innovative Technology and Exploring Engineering (IJITEE), Volume-9, 2019, 2278-3075
5. **Arthy P S** Dr.A Kavitha, “Review and Analysis on Various Methods for Image Deblurring” AIP Conference Proceedings 2393, 020177 (2022), <https://doi.org/10.1063/5.0074143>.

International Conference

6. “Smart Control of Home Appliances using Microwave Radar”, ICSEMR 2018 organised by VEL TECH MULTI TECH Dr.RR Dr.SR Engineering College,Chennai.
7. “Review and Analysis On Various Methods For Image Deblurring”, ICRACIA 2021, organised by M.Kumarasamy College of Engineering on 31.03.2021 & 01.04.2021.
8. “V-I characterization and modelling of GaN HEMT” ICRACIA 2021, organised by M.Kumarasamy College of Engineering on 31.03.2021 & 01.04.2021.

National Conference

9. Presented a paper on “Green computing and conservation of energy “ in the national conference NCDC'2018 at RMKEC.
10. Presented a paper on “Solar powered ultra-cane using DGPS system” at National conference on NTBEECOM 2017 at Vel Tech Multitech Dr.RR Dr.SR Engineering College.

Online Courses details

Sl. No	Title	Certification Authority	Month/Year
1	Advanced Certification in Data Science and AI	iHUB DivyaSampark at Indian Institute of	Feb 2026

		Technology Roorkee	
2	Electronic Systems Design: Hands-on Circuits and PCB Design with CAD Software	NPTEL	Jul-Oct 2025
3.	Educational Leadership	NPTEL	Jul-Oct 2025
4.	Hardware Modeling using Verilog	NPTEL	Jul-Sep 2025
5	Education for Sustainable Development	NPTEL	Jan-Apr 2025
6	Ethics in Engineering Practice	NPTEL	Feb-Apr 2025
7	Signal Processing Techniques And Its Applications	NPTEL	Jan-Apr 2025
8	Enabling Technologies for 6G Communications Networks (Hindi)	NPTEL	Feb-Mar 2025
9	Effective Engineering Teaching In Practice	NPTEL	Jan-Feb 2025
10	Discrete Time Signal Processing	NPTEL	Jan-Mar 2025
11	Digital Image Processing	NPTEL	Jul-Oct 2024
12	Machine Learning and Deep Learning - Fundamentals and Applications	NPTEL	Jul-Oct 2024
13	Technical Communication for Engineers	NPTEL	Jul-Aug 2024
14	Teaching And Learning in General Programs: TALG	NPTEL	Jul-Aug 2024

15	Principles of Communication Systems – I	NPTEL	Jan-Apr 2024
16	Signals and Systems	NPTEL	Jan-Apr 2024
17	Accreditation And Outcome Based Learning	NPTEL	Aug-Oct 2023