




SETHU INSTITUTE OF TECHNOLOGY

(An Autonomous Institution| Accredited with 'A++' Grade by NAAC)

Pulloor, Kariapatti –Taluk. Virudhunagar Dist-626115.



Department of Electronics and Communication Engineering					
Name	Mr.P.Selvaprasanth				
Date of Birth	27.06.1992				
Unique ID	1-3362860716				
Educational Qualifications	ASSISTANT PROFESSOR				
Designation	M.E.(Applied Electronics)				
Email ID	selvaprasanthapece @sethu.ac.in				
Alternate Email ID	selvaprasanth9619@gmail.com				
Experience	Industry	Teaching	Others	Total	
		9 YEARS 1 MONTH		9 YEARS 1 MONTH	
Date of Joining the Institution	01.06.2016				
Area of Specialization	VLSI DESIGN				
Courses taught	DSP, TLW, ANALOG AND DIGITAL COMMUNCATION, ELECTRONIC DEVICES, MP&MC,,ARTIFICIAL INTELLIGENCE, DEVICE MODELING				
Research Focus	VLSI DESIGN				
Subject Competency	DSP, TLW, ANALOG AND DIGITAL COMMUNCATION, ELECTRONIC DEVICES,				
No. of papers published	National Journals		International Journals	Conferences	
			13	5	
PG Specialization	APPLIED ELECTRONICS				
Ph.D. Specialization	VLSI , SIGNAL PROCESSING				
Patents (Filed & Granted)	6				

Tel: 04566304600
Web: www.sethu.ac.in

Email: sit@sethu.ac.in

Academic Credentials

Level	Degree	Specialization	University	Year of Completion
UG	UG	B.E	ECE	Anna University
PG	PG	M.E	Applied Electronics	Anna University
Ph.D.	Pursuing			

Details of Journal Publication:

1. **P.Selvaprasanth**, A Manoj Prabakaran, “FPGA implementation of hybrid Namib beetle and battle royale optimization algorithm fostered linear phase finite impulse response filter design”, Analog Integrated Circuits and Signal Processing, Vol 123, Issue 2,March 2025.
2. **P.Selvaprasanth**, “Advanced Image-Based Railway Track Crack Detection using Hybrid Deep Learning”, IJIRCCE, Volume 14, Issue 5, May 2025.
3. **P.Selvaprasanth**, “Analysis of Alzheimer disease with K means algorithm and PSO segmentation”, 2022 IEEE 2nd Mysore Sub Section International Conference (MysuruCon)”, IEEE,OCT 2022.
4. **P Selvaprasanth**, G Swathika, “Design of spider web spaced antenna for medical applications”,AIP Conference Proceedings,Vol.2518(1),pp 060005,Sep 2022.
5. **P Selvaprasanth**, ‘Dual loop control for single phase PWM inverter for distributed generation, Materials Today: Proceedings, Jan 2021, Vol . 46 pp. 2216-2219. DOI:10.1016/j.matpr.2020.10.116.
6. **P Selvaprasanth**, “Adhaar: A Reliable Data Hiding Techniques With (Nnp2) Algorithmic Approach Using X-Ray Images”, 3C Tecnologia ,Nov 2021.
7. **P Selvaprasanth**, “A Geographical Review: Novel Coronavirus (COVID-19) Pandemic”, Asian Journal of Applied Science and Technology, Oct 2020.
8. **P Selvaprasanth**, “An Effective Usage of LP Buses by DATCOD Technique”, Mediterranean Journal of Basic and Applied Sciences”Feb 2021.
9. **P Selvaprasanth**, “A brief study on IoT applications”, Int J Trend Sci Res Dev (IJTSRD), Vol 4 Issue 2, Feb 2020.

10. **P Selvaprasanth**, “A Survey on 3-Tier Architecture of IOT-Challenges and Remedies”, Asian Journal of Applied Science and Technology, Volume 4, Issue 1, Pages 01-05, January-March 2020
11. **P Selvaprasanth**, “A Dumb-Bell Shaped Damper with Magnetic Absorber using Ferrofluids, International Journal of Recent Technology and Engineering (IJRTE), Volume-8, Issue-4S2, December 2019.
12. **P Selvaprasanth**, “Automated Health Monitoring System for Premature Fetus”, Asian Journal of Applied Science and Technology (AJAST) (Peer Reviewed Quarterly International Journal) Volume 3, Issue 3, Pages 17-23, July -September 2019.
13. **P Selvaprasanth**, “High Resolution Image Scaling Using Fuzzy Based FPGA Implementation”, Asian Journal of Applied Science and Technology (AJAST), Volume 3, Issue 1, Pages 215-221, Jan-March 2019

Details of Conference attended:

1. **Selvaprasanth .P** “A Novel Approach For Optimal Design Of Digital Fir Filter Using Grasshopper Optimization Algorithm” International Conference on Recent Trends in Information, Communication and Electrical Engineering (ICRTICE 2K24)”
2. **Selvaprasanth .P** “Low-Power Reconfigurable Fir Filter Design Based On Common Operation Sharing” International Conference on Recent Trends in Information, Communication and Electrical Engineering (ICRTICE 2K24)”
3. **Selvaprasanth .P**. **Hearing Aid Using Teeth Vibrations**”International Conference on Emerging Trends in Information Communication Technologies(ETICT-2023)
4. **Selvaprasanth .P**. **Data Collection Using Metaheuristic Imperialistic Algorithm In Wireless Sensor Network**”International Conference on Emerging Trends in Information & Communication Technologies(ETICT-2023)
5. **Selvaprasanth .P**. **Short Circuit Indicator**”International Conference on Emerging Trends in Information & Communication Technologies(ETICT-2023)

Details of Patents Filed and Granted:

Inventor	Level	Application No	Title of the Patent	Status
P.Selvaprasanth	National	202341084575	Automatic Electric Vehicle Driving Method Based On Artificial Intelligence	Published
P.Selvaprasanth	National	202241007597	MI based patient healthcare monitoring system	Published
P.Selvaprasanth	National	202141047296	Pop-out & Sink-in Holographic Augmented Reality	Published

			and Virtual Reality Device for use without 3D glasses for simultaneous viewing by multiple persons.	
P.Selvaprasanth	National	202141030825	Intelligent IOT and 5G based patient care system	Published
P.Selvaprasanth	International	202441091385	Machine learning models for predicting payroll fraud in financial and HR management systems	Published