

Ms.R TAMEZHENEAL



Designation:	Assistant Professor				
Qualification:	M.E				
Area of specialization:	COMMUNICATION SYSTEMS				
Experience :	Industrial Experience	Teaching Experience			
	1	3 YEARS			
Number of workshop / FDP attended:	Number of Workshops	Number of FDPs			
	2	10			
Publications:	Conference		Journal		
	National	International	SCI	Scopus	Others
	1	9	2	4	2
Patents:	National		International		
	4		-		

Professional Body Membership:	IEEE, IAENG			
Staff Achievements:	<ul style="list-style-type: none"> • Participated as Proctor for the IEEE Xtreme 17.0 event organized by IEEE in October 2023. • Participated as Proctor for the IEEE Xtreme 17.0 event organized by IEEE in October 2024. • Completed 8 modules in NITTTR conducted by AICTE 2023. • Completed NPTEL online certification course on Design Thinking on Jan - March 2024. • Recognized for Contributing 100% Admission in Admission Core Team on 5th September 2024. • Produced 100 % in Biomedical Signal and Image Processing Jan – April 2024. • Produced 100% in R Programming June – Dec 2025. • Produced 100% in Computer vision and image processing June– Dec 2026 • Produced 100% in Electronics Circuits – June – Dec 2026 • Completed NPTEL online certification course on Digital Image Processing. June – Dec 2026 			
Workshop Details:	SI NO	Title	Venue	Month/Year
	1.	AURDINO DEVELOPMENT	MIT-GUINDY	FEB 2014
	2.	Art of Writing	Sri Sairam Engineering College	20/11/2024
FDP Details:	SINO	Title	Venue	Month/Year
	1.	Leveraging Explainable AI to Enhance communication systems, signal and image processing	Sri Sairam Engineering College	17/11/2025 – 22/11/2025

	2.	PERSPECTIVE OF 6G TOWARDS NEXT-GEN COMMUNICATION	Sri Sairam Engineering College	07/04/2025 – 11/04/2025
	3.	AI POWERED EDGE COMPUTING FOR IOT APPLICATIONS	Sri Sairam Engineering College	23/06/2025 – 28/06/2025
	4.	Design Thinking - A Primer	NPTEL	Jan – Feb 2024
	5.	Digital Image Processing	AICTE-NPTEL	Jul – Oct 2024
	6.	Quantum Computing and its Future Scope." By AICTE ATAL	Sri Sairam Engineering College	18/12/2023 – 26/12/2023
	7.	FUTURE DETECTION IN IMAGE PROCESSING	SRM Institute of Science and Technology	30/10/2023 – 04/11/2023
	8.	Face-to-Face UHV-II FDP by AICTE	Sri Sairam Engineering College	23/01/2024 – 27/01/2024
	9.	“Inculcating Universal Human Values in Technical Education” by AICTE	Sri Sairam Engineering College	10/06/2023 - 12/06/2023

	10.	“Embracing Design Thinking for Success”	Sathyabama Institute of Science and Technology, ATAL,AICTE	November 2023.
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Publication Details:

JOURNAL:

1. Hybrid Osprey – LyreBird based secured Multipath Routing in IoT Edge computing – WSN: Optimized Multiple Objective – Improved Deep Reinforcement Learning for Node Energy Prediction (**SCI Submitted**)
2. T Mangayarkarasi, S Sumathi, K Sumathi, **R Tamezheneal**, B Panjavarnam; Exploring Machine Learning Techniques in Lung cancer detection via Absolute Integral Based Analysis, Journal International Development planning review, Vol 23, Issue 1, Pages 222-234

BOOK CHAPTER:

1. Sathiyaprasad B, Menaka D, Sreeji S, Tamezheneal R, Gopal R; An In-Depth Analysis of the Return on Investment in Software test Automation Scrivener Published 20.06.2025

International Conference Details:

1. **R. Tamezheneal**, Vivitha M G, Gopika R N, Senthurvelan S, Yaswanth A., Empowering Industrial Efficiency: AI, OR Codes, and Cloud Analytics for Seamless Monitoring, National Conference on "AI solutions for sustainable Electronics and wireless systems (AISSEWS 2026)" MIT campus, Anna University Jan 2026
2. **R. Tamezheneal**, B. Sathiyaprasad, M. Nithyasree, S. Krishnaja, A. Thenmozhi, D. Menaka., Integrating Vision- Based Statistical Measures for Traffic Sign Recognition and Accident Mitigation Using YOLOv5, 5th International Conference on Computing and Communications Technologies (ICCCT'25), 2025. IEEE. (**Scopus Indexed**).
3. **R. Tamezheneal**, B. Sathiyaprasad, M. G. Vivitha, R. N. Gopika, S. Senthur Velan, A. Yaswanth., A Hybrid Deep Learning and Statistical Framework for Cardiac Arrest Detection in Neonatal Intensive Care Units, 5th International Conference on Computing and Communications Technologies (ICCCT'25), 2025. IEEE. (**Scopus Indexed**).
4. D. Menaka; B. Sathiyaprasad; **R. Tamezheneal**; Sign Language Recognition Using Slowfast-Sign Architecture, International Conference on Advancement in Computational Intelligence for Knowledge Discovery & Diverse Applications (ICACIKDDA'2025) 13th – 14th June 2025.
5. D. Menaka; B. Sathiyaprasad; **R. Tamezheneal**; Faerm Assist: Leveraging Transfer Learning for Predictive Analysis of Select Plant Diseases in an Android Application, International Conference on Advancement in Computational Intelligence for Knowledge Discovery & Diverse Applications (ICACIKDDA'2025) 13th – 14th June 2025.
6. **R. Tamezheneal**; K. Kajendran; J.C. Vinitha; Hemalatha S; K.B. Aruna; V Samuthira Pandi, Design and Development of IoT Oriented Solar Powered Smart Home Controlling Mechanism, 15-17 November 2023, International Conference on Sustainable Communication Networks and Application (ICSCNA).

7. L.Manoharan; **R Tamezheneal**; S Velmurugan; Rajat kumar Diwedi; M Saravanapandian , Secure Data Transmission Using Steganography by AES AlgorithmTitle, 2024 International Conference on Advances in Data Engineering and Intelligent Computing Systems (ADICS) DOI: 10.1109/ADICS58448.2024 18-19 April 2024
8. T Mangayarkarasi, S Sumathi, K Sumathi, **R Tamezheneal**, B Panjavarnam; Exploring Machine Learning Techniques in Lung cancer detection via Absolute Integral Based Analysis,Journal International Development planning review, Vol 23, Issue 1, Pages 222-234
9. **R Tamezheneal**; S Sumathi; "Implementation of biometrie smart card using multibiometrics," 2017 International Conference on Trends in Electronics and Informatics (ICEI), Tirunelveli, India, 2017, pp. 777-782, doi: 10.1109/ICOEI.2017.8300810. (**Scopus Indexed**).
10. **R Tamezheneal**; S Sumathi; Multimodal Approach for Human Authentication Using Sclera and Ear "International Conference on NextGen Electronic Technologies Silicon to Software (ICNETS2), On 25thMarch 2017" VIT Chennai (**Scopus Indexed**).

BOOK CHAPTER:

B. Sathiyaprasad; D.Menaka;Sreeji S; **R. Tamezheneal**, Gopal R, An In-Depth Analysis of the Return on Investment in Software Test Automation, Scrivener Publishing 20.06.2025.

PATENTS:

SI NO	Title Of the Patent	Application No	Issue Date	Status
1.	IOT BASED WIRELESS SENSOR NETWORK NODE FOR ENVIRONMENT MONITORING	398684-001	28/10/2023	PUBLISHED
2.	SMART CITY TRANSPORTATION MANAGEMENT SYSTEM USING IOT & AI	398236-001	22/10/2023	PUBLISHED
3.	REMOTE-CONTROLLED WIRELESS SURVEILLANCE ROBOT WITH INTEGRATED CAMERA	202441102859	24/12/2024	PUBLISHED
4	NEURAL NETWORK BASED HANDWRITTEN CHARACTER RECOGNITION DEVICE	-	-	APPLIED

