ANNAMACHARYA UNIVERSITY

EXCELLENCE IN EDUCATION; SERVICE TO SOCIETY
(ESTD, UNDER AP PRIVATE UNIVERSITIES (ESTABLISHMENT AND REGULATION) ACT, 2016)
Rajampet, Annamayya District, A.P – 516126, INDIA

Faculty Profile

Basic Information:

NAME	:	**Mrs. L. SIVAYAMINI**
DESIGNATION	:	**Assistant Professor**
DEPARTMENT	:	**ECE**
DATE OF BIRTH	:	**12-07-1992**
DATE OF JOINING	:	**09-06-2016**
EMAIL ID	:	**sivayamini470@gmail.com**
		lsy@aitsrajampet.ac.in
EMPLOYEE ID	:	**1225**

Academic Profile:

Qualification	Name of the Board/University	YEAR
Ph. D	Annamacharya University, Rajampet	Pursuing
M.Tech	JNTU, Anantapur	2015
B. Tech	JNTU, Anantapur	2013

Research Details:

1. Areas of Specialization	:	Digital Image Processing, Embedded Systems, Communication Systems
2. No. of Publications	:	**52** Journals: **31** International Conferences: 17 National Conferences: **04**
3. Awards Received	:	**NIL**
4. Research Guidance		
No. of Ph.D Guided :	**NIL**	
No. of M.Tech. Guided :	**NIL**	
No. of B.Tech. Guided :	**12**	
5. Details of Professional Membership :	IFERP - 28693690	

6. Subjects Taught	:	Embedded System Concepts, Embedded Systems, Digital Signal Processing, Probability Theory & Stochastic Process, Random Variables and Random Process, Nano Electronics, Universal Human Values, Digital Image Processing, Satellite Communications, Cellular & Mobile Communication, Analog & Digital Communication, Digital Communication, Communication systems, Radar Engineering, Electronic Devices and circuits, Electronic circuits and analysis

Publication Details:

Title	Publisher	Published Year
Cardiac Diagnosis System for Heart Diseases Classification Based on Deep Learning and Optimization Strategies Using ECG Signals	IEEE	2025
An AI-Powered Diagnostic Model for Detection of Lung and Liver Cancer	Springer	2025
Development of IoT Multilingual Voice Controlled Home Automation System	Springer	2025
SOBOT: Design And Development of UV Sterilization Ostensible Doctor Robot for Clinical Purposes Based on IoT	IEEE	2024
A Dynamic Deep Learning Model for Detection and Stage Categorization of Diabetic Retinopathy on Retinal Images	IEEE	2024
An Artificial Intelligence Based Deep Learning Technique for Recognition of Multiple Brain Tumors on MRI Imager	IEEE	2024
Design of Wireless Sensor-Based Automation System for Laboratory Using Internet of Things	Springer	2024
Deep Learning and Patch Processing Based Lung Cancer Detection on CT Images	Springer	2024
A Hybrid Model for the Detection and Classification of Cardiovascular Diseases Based on Deep Learning and Optimization Techniques	Springer	2024
Design of Optimal Waste Management System Using IOT and Machine Learning Technique in Educational Institutions	Springer	2024
An Efficient Retinal Layer Segmentation Based on Deep learning Regression Technique for Early Diagnosis of Retinal Diseases in OCT and Fundus Images	Springer	2023
An Efficient Method for Leaf Diseases Detection Using Deep Learning Technique	IEEE	2023
A Neural Network and Optimization Based Lung Cancer Detection System in CT Images	Frontiers	2022

Design of Smart Classroom in Educational Institutes for Smart and a Sustainable Campus Based on Internet of Things	Springer	2022
An Efficient Method for Detection and Classification of Pulmonary Neoplasm based on Deep Learning Technique	BioAxis DNA Research Centre	2021
An Efficient Method for Detection and Classification of Neoplasm on Deep Learning Technique	IJARESM Publication	2021
Deep Learning Based Food Detection Method at Restaurants for Automatic Billing	Swets & Zeitlinger	2021
Segmentation Of Tumor from MR Brain Images Via Supervoxel Technique	Society for Experimental Mechanics	2020
Design of Voice Controlled Agri Robot Based on Arduino	Society for Experimental Mechanics	2020
A Dynamic Wireless Robot for Railway Track Scanning and Surveillance	Nitya Publications	2019
Bio- Metric Based High Security System for Vehicles	Nitya Publications	2019
Blood Vessel Segmentation of Retinal Images Using Contrast Limited Adaptive Histogram Equalization	Nitya Publications	2019
Blood Vessel Segmentation of Retinal Images Using Tyler Coye Algorithm	Nitya Publications	2019
Detection of Lung Cancer Using Efficient Optimization Technique	Nitya Publications	2019
An Optimized Image Fusion Technique for Neurosurgery	Nitya Publications	2019
Anti-Theft Protection for ATM Banking Using IoT	IJET Publications	2018
Design of Smart Bio-Metric Anti-Theft Protection System for Vehicles	IJET Publications	2018
Detection of Diverse Tumefactions in Medial images by Various Cumulation Methods	Fast Track Publications	2017
A Novel Optimization for Detection of Foot Ulcers on Infrared Images	IEEE	2017
A Survey of Various Optimization Methods for Detection of Cancer on Medical Images	IJATEST Publications	2016

Patent Details:

Title of Patent	Submitted/Published/Awarded
Computer Implemented Method and System for Processing Qualitative Imaging to Detect and Forecast Abnormalities	Published
Machine Learning-Based Automatic Prediction of Student Performance to Support Higher Education Systems	Published