**ANNAMACHARYA UNIVERSITY FACULTY DETAILS FOR WEBSITE**

**About Profile**



NAME: **Mrs.L.SIVAYAMINI**

DATE OF BIRTH: **12-07-1992**

DESIGNATION: **Assistant Professor**

DEPARTMENT: **ECE**

EMAIL ID: [sivayamini470@gmail.com](mailto:sivayamini470@gmail.com),

[lsy@aitsrajampet.ac.in](mailto:lsy@aitsrajampet.ac.in)

DATE OF JOINING: **09-06-2016**  EMPLOYEE ID: **AITS041032**

## 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

1. **List of Publications**: 52

Journals: 31, International Conferences: 17,

National Conferences: 04.

1. **Awards Received**: NIL
2. **Research Guidance:**
3. No. of Ph.D Guided: **NIL**
4. No. of M.Tech Guided: **NIL**
5. No. of B.Tech Guided: **12**
6. **Details of Professional Membership:**

IFERP - 28693690

1. **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

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No.** | **Title** | **Publisher** | **Published Year** |
|  | 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 Deeplearning 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 |

## Patent Details

| **S. No.** | **Title of Patent** | **Submitted/Published/Awarded** |
| --- | --- | --- |
|  | Machine Learning-Based Automatic Prediction of Student Performance to Support Higher Education Systems | Published |
|  | Computer Implemented Method and System for Processing Qualitative Imaging to Detect and Forecast Abnormalities | Published |