


**SriSaiRamEn
gineeringCollege**

DepartmentofCSE (Cyber security)

Name: Mr.M.Subramanian	
Designation:	Associate Professor
Qualification:	M.E.
Area ofSpecialization:	WirelessNetworks&CommunicationEngineering
Experience:	Teaching-14yrs
	Industry/Polytechnic:NA
NumberofWorkshops/Conferences/FDPAttended:	WORKSHOPS-5 FDP-18
Publication:	Journal: National: --1 International:07
	Conference: National:2 International:13

Experience:

S.No	NameoftheInstitution	Designation	Department	Period ofExperie nce
1.	Sri Sairam EngineeringCollege, WestTambaram, Chennai	Assistant ProfessorGr.III	Electronics andInstrumenta tionEngineering	(July2011-May 2025)
2.	Sri Sairam EngineeringCollege, WestTambaram, Chennai	Assistant ProfessorGr.III	CSE (Cyber security)	(May 2025- July 2025)
3.	Sri Sairam EngineeringCollege, WestTambaram, Chennai	Associate Professor	CSE (Cyber security)	(August 2025- Till date)

Theory Subjects Handled:

Discrete Time system & Signal Processing	Microprocessors and
Microcontrollers Linear Integrated Circuits	Electrical Measurements
Operating systems	Biomedical Instrumentation
Embedded Systems	Industrial Data Networks
Modern Electronic Instrumentation	Principles of Management
Digital Signal Processing	
Biomedical Signal and Image Processing	Analog Electronic Circuits B
Cyber security essentials	Computer Architecture
Product Development Lifecycle	Internet of Things

Book Chapter Publication:.

Contributed a book chapter publication entitled Ensemble Machine Learning Algorithms for Predication and Classification of Medical images for the book Artificial Intelligence for Smart Applications published on Dec 2022.

National Initiative for Technical Teachers Training (NITTT):

Successfully completed **all eight modules** of the **AICTE–sponsored National Initiative for Technical Teachers Training (NITTT)** and received the **AICTE Certification** in **February 2023**.

NPTEL Domain certification:

Successfully completed all academic and assessment requirements for the **SWAYAM–NPTEL Domain Certification in Data Science (Computer Science)** during **April 2025**.

Certificate in Rural Governance & Local Administration:

Successfully completed the **Certificate in Rural Governance & Local Administration** offered by the **Indian Institute of Skill Development Training**, focusing on governance and administrative frameworks of **Panchayat Raj Institutions**, completed in **Dec 2025**.

AICTE–QIP Postgraduate Certification Program:

Successfully completed **one-semester Hybrid AICTE–QIP Postgraduate Certification Program on “Intelligent IoT with 5G and Beyond Use Cases”** offered by the **Department of Electronics and Communication Engineering, National Institute of Technology, Warangal**, during the period **July–December 2025**.

UG projects Guided:

S.No	Title of the Project work	Period of Guidance
1.	Emergency alert and monitoring of heart rate and drowsiness for heart patient while driving	December 2012 to May 2013
2.	PLC based control protection and Interlocking of DSS Compressor	December 2013 to May 2014
3.	Microprocessor based wheel run out measurements system for commercial vehicles	December 2013 to May 2014
4.	Real time energy management algorithm for wireless charging of electric vehicle for charging parks	December 2014 to May 2015

5.	Centralized maintenance and monitoring of utilities corridor	December 2015 to May 2016
6	Smart Safeguard device for fisherman boats	December 2016 to May 2017
7	Security and Health Monitoring System of baby in the Incubator	December 2017 to May 2018
8	Chain snatching detection safety system	December 2018 to May 2019
9	Automatic closing of intravenous drip controller and altering system	December 2018 to May 2019
10	Detection and segmentation of Glaucoma using Retinal Fundus Image	December 2019 to May 2020
11	Digital Triplet of a Industrial Multistage Centrifugal Pump	December 2020 to May 2021
12	Soil Identification Using Image Processing	December 2021 to May 2022
13	Design and Development of an Autonomous pesticides spraying agricultural drone	December 2022 to May 2023
14	IoT-Enhanced Quality Bread Assurance System (IQBAS)	April 2021 - May 2024
15	AI BASED WAREHOUSE MANAGEMENT SYSTEM	April 2022 - May 2025

Workshops Attended:

- Attended two days National Workshop on “LabVIEW Based System Design for Multidisciplinary Research Application”, organized by KCG College of Technology, Karapakkam, Chennai, Tamilnadu during 19th & 20th June 2015.
- Attended three-day workshop on PLC, SCADA and DCS from 23.7.18 to 25.7.18 organized by Electronics and Instrumentation Engineering, Sri Sairam Engineering College, Chennai.
- Attended a Two-Day workshop on “Machine Learning techniques for building Intelligent systems” during 27th-28th September 2019 held at Dept of IT, SSN College of Engineering, Chennai.
- Completed Faculty Development Workshop on “Product Engineering for Real Life Problems” held at IIT Madras Research Park, Chennai from 28.9.2022 to 30.9.2022.
- Attended a workshop on Synthesis of Nano Materials using Electro chemical methods, Characterization and applications held on 26.7.2024

FDPs/SDPs Attended:

- Attended a National Level-Faculty Development programme on “Teaching Excellence in Engineering and Management curriculum” organized by Sri Sairam Institute of Management Studies, Sri Sairam Engineering College, Chennai held on 20th & 21st June, 2016.
- Attended Faculty Development Training programme on “EE6403-DISCRETE TIME SYSTEMS & SIGNAL PROCESSING”, organized by the Centre for Faculty Development, Anna University, Chennai at Velammal Engineering College from 18th to 24th December 2015.
- Attended ISO 9001:2015 Quality Management System and Audit Training during 8th June 2018.
- Attended Two-day Faculty development program on Teaching Techniques conducted by ICT Academy on 11th and 12th February 2019 at BS Abdur Rahman Institute of Science and Technology.
- Attended Five-day Faculty development program on Entrepreneurship Career Development Program held from 8th to 12th April 2019 held at Sri Sairam Institute of Management Studies, Chennai.

- Attended a One-week FDP on “Artificial Intelligence” during 5.12.2019 to 11.12.2019 held at Dept of EEE, Sri Sairam Engineering College, Chennai.
- Participated in the AICTE Recognized Faculty Development Programme on Neural Network and CNN Conducted by Curriculum Development Centre Department from 20/04/2020 to 24/04/2020 (One Week) at NITTTR, Chandigarh
- Participated in the AICTE Recognized Faculty Development Programme on Latest Wireless and Computing Technologies Conducted by Electronics and Communication Engineering Department from 14/04/2020 to 18/04/2020 (One Week) at NITTTR, Chandigarh
- Participated & completed successfully AICTE Training And Learning (ATAL) Academy Online FDP on "Artificial Intelligence" from 2020-11-23 to 2020-11-27 at Central Institute of Technology.
- Participated & completed successfully AICTE Training And Learning (ATAL) Academy Online FDP on "Design thinking" from 2020-12-14 to 2020-12-18 at Graduate School of Management Studies, GTU.
- Participated & completed successfully AICTE Training And Learning (ATAL) Academy Online FDP on "Electrical & Computer Engineering" from 2021-1-4 to 2021-1-8 at National Institute of Technology Raipur.
- Participated & completed successfully AICTE Training And Learning (ATAL) Academy Online FDP on "Internet of Things (IoT)" from 2020-11-2 to 2020-11-6 at SRI RAMAKRISHNA MISSION VIDYALAYA COLLEGE OF ARTS AND SCIENCE.
- Participated in ISTE Sponsored Five Days Virtual FDP conducted by Dept. of EIE, Sri Sairam Engineering College on the topic “Bio-inspired Learning” held from 20-12-2021 to 24-12-2021.
- Participated in Five Days Virtual FDP conducted by Dept. of ECE, R.M.K. College of Engineering on the topic “Recent Advances in Artificial intelligence and IoT” held from 02-01-2023 to 06-01-2023.
- Completed NPTEL-AICTE FDP on the course “Python for Data Science” held between Jan-Feb 2024
- Successfully completed the Faculty Orientation Programme for delivering the IGNITE Entrepreneurship Course, conducted by the Wadhvani Entrepreneur Network (NEN), Wadhvani Foundation, during the period 23 May 2024 to 05 July 2024.
- Participated in Five Days Virtual FDP conducted by Dept. of BME, Rajalakshmi Engineering College on the topic “Exploring wearable tech and AI innovations for personalized healthcare” held from 03-06-2024 to 07-06-2024.
- Participated in Professional Development Programme on “AI applications in Electrical and Electronics Engineering” conducted by National Institute of Technical Teachers Training and Research, Chennai held from 10-06-2024 to 14-06-2024.

Publications:

S. No	Paper Title	Journal / Conference Details	Publication Details (Year, DOI, Pages)
1	A User-Level Tool for Inferring Network Policy of ISP	National Conference on Emerging Trends in Computer Applications and Management	Conference Paper, 2011
2	QoS Scheduling in Wireless MAN	IJCA Journal	Article, 2012
3	Microcontroller Based Wheel Run Out Measurement System for Commercial Vehicles	Second National Conference on Intelligent Control and System Dynamics (NCICSD-2014)	Conference Paper, 2014
4	SMELLR – Food Freshness Detection Using Machine Learning	Journal of The Gujarat Research Society	Article, 2019
5	Cathartic Bot for Hospital Applications	International Journal of Recent Technology and	Article, 2019, DOI: 10.35940/ijrte.d5245.118419

S. No	Paper Title	Journal / Conference Details	Publication Details (Year, DOI, Pages)
		Engineering (IJRTE)	
6	Chain Snatching Detection Safety System	International Journal of Research in Engineering, IT and Social Science	Article, 2019
7	Security and Health Monitoring System of the Baby in Incubator	International Journal of Engineering and Advanced Technology (IJEAT)	Article, 2019, Vol. 8, pp. 3582–3585, DOI: 10.35940/ijeat.F9353.088619
8	Voltage Sag Compensation Using Dynamic Voltage Restorer	International Journal of Engineering and Advanced Technology (IJEAT)	Article, 2019, Vol. 8, pp. 3571–3574, DOI: 10.35940/ijeat.F9351.088619
9	Automatic Closing of Intravenous Drip Controller and Alerting System	9th International Conference on Science and Innovative Engineering	Conference Proceedings, 2019
10	Digital Triplet of an Industrial Multistage Centrifugal Pump	International Conference on Computing and Communications Technologies (ICCCT-2021)	Conference Paper, 2021, pp. 438–443, DOI: 10.1109/ICCCT53315.2021.9711888
11	Digital Triplet of an Industrial Multistage Centrifugal Pump	4th International Conference on Computing and Communications Technologies	Conference Paper, 2022
12	DC-DC Converters Based Integration of Grid Stability Estimation for PV Systems	International Conference on Sustainable Computing and Data Communication Systems (ICSCDS-2022)	Conference Paper, 2022, pp. 891–898, DOI: 10.1109/ICSCDS53736.2022.9760810
13	Deep Learning Techniques in Skin Cancer Detection: A Survey	International Conference on Computational Science and Technology (ICCST-2022)	Conference Paper, 2022, pp. 378–381, DOI: 10.1109/ICCST55948.2022.10040424
14	IoT-Enhanced Quality Bread Assurance System (IQBAS)	Intelligent Computing and Control for Engineering and Business Systems (ICCEBS-2023)	Conference Paper, 2023, DOI: 10.1109/ICCEBS58601.2023.10448554
15	AI Based Warehouse Management System	ICCEBS-2023	Conference Paper, 2023, DOI: 10.1109/ICCEBS58601.2023.10448946
16	Development of Interactive Boolean Algebra Lesson Using Unreal Engine 5	ICCEBS-2023	Conference Paper, 2023, DOI: 10.1109/ICCEBS58601.2023.10449239
17	Deploy Machine Learning Model for Effective Bank Telemarketing Campaign	IEEE ICDCECE-2023	Conference Paper, 2023, DOI: 10.1109/ICDCECE57866.2023.10150462
18	Melanoma Skin Cancer Detection Using CNN-RELM Model	ICEARS-2023	Conference Paper, 2023, pp. 1239–1245, DOI: 10.1109/ICEARS56392.2023.10085489
19	Fuzzy Logic-Based Cluster Formation and Optimised Routing for MANETs in Environment Protection	Journal of Environmental Protection and Ecology	Article, 2023, Vol. 24, pp. 1900–1909
20	Multi-Class Classification of Skin Cancer Using Hybrid Inception-Residual Network	International Journal of Intelligent Systems and Applications in Engineering	Article, 2024, Vol. 12, pp. 810–822
21	Smart Skin Cancer Diagnosis Using	International Conference	Conference Paper, 2024, DOI:

S. No	Paper Title	Journal / Conference Details	Publication Details (Year, DOI, Pages)
	SCA-RELM	for Innovation in Technology (INOCON-2024)	10.1109/INOCON60754.2024.10511420
22	Automatic Early Skin Cancer Detection Using MLBP and Regularized ELM	International Conference on Intelligent Computing and Knowledge Extraction (ICICKE-2025)	Conference Paper, 2025, DOI: 10.1109/ICICKE65317.2025.11136648
23	Automatic Early Skin Cancer Detection using MLBP and Regularized Extreme Learning	International Conference on Intelligent Computing and Knowledge Extraction (ICICKE 2025)	Conference Paper, 2025, DOI: 10.1109/ICICKE65317.2025.11136648

Patents:

S. No	Patent Title	Status	Filing Date	Publication Date
1	Mouse with Integrated Fingerprint Scanning Unit	Granted	10-08-2021	09-02-2023
2	Smart Driver Guidance System for Indian Roads	Published	02-07-2020	10-07-2020
3	Automated Safety System for Driver and Pillion Rider in Two-Wheeler	Published	03-10-2020	09-10-2020
4	Artificial Intelligence Based Approach to Predict the Impact of Breast Cancer Using WSN and Image Processing Techniques	Published	03-12-2022	30-12-2022
5	Intelligent Approach to Positioning of Wi-Fi Mesh Routers for Improved Quality of Service	Published	04-12-2023	05-01-2024
6	IoT-Enhanced Quality Bread Assurance System (IQBAS)	Published	23-08-2024	13-09-2024
7	Advancing Pedagogy Through Information and Communication Technology (ICT): The Potential of Mentoring and Mirrored Practice	Published	03-05-2024	10-05-2024
8	Artificial Intelligence and Machine Learning: A Model for Enhancing Faculty Performance Reliability	Published	03-05-2024	10-05-2024
9	AI BASED WAREHOUSE MANAGEMENT SYSTEM	Published	16/04/2025	02/05/2025
10	Thermoelectric Waste Heat Recovery in Spacecraft Nozzle	Published	28/05/2025	20/06/2025