Sri Sai Ram Engineering College

Department of Electronics and Instrumentation Engineering

Name: R.GAYATHIRI	
Designation:	Associate professor
Qualification:	M.E
Area of Specialization:	PROCESS CONTROL AND INSTRUMENTATION
Experience:	Teaching- 16 years
	Industry/Polytechnic: NA
Number of Workshops/ Conferences/ FDP Attended:	WORSHOPS-3 FDP-09

Publication:	Journal:
	     National: -
	     International: 1

	Conference:
	     National: --
	     International: 19

General:	College Guest Lecture Coordinator, College special class coordinator, Sttp Co-coordinator Year coordinator
Staff Achievement	Have won Cash awards for producing 100% results

Experience:

S. No	Name of the Institution	Designation	Department	Period of Experience
1.	Sri Sairam Engineering College, West Tambaram, Chennai	Asst.Professor	Electronics and Instrumentation Engg	(MAY 2013-Till date)
2.	Sri Sairam Engineering College, West Tambaram, Chennai	Asst Professor	Electronics and Instrumentation Engg	2010(JULY) - 2011(DEC)
3.	Dayananda Sagar Engg.college Bangalore	Lecturer	Instrumentation Technolgy	2007(JUNE)- 2010(JUNE)
4	Roever engg.college Perambalur	Lecturer	Electronics and Communication	2005(JUNE)- 2006(DEC)

Theory Subjects Handled:

- Measurements & Instrumentation
- Industrial Instrumentation- I
- Analytical Instrumentation
- Electronics Instrumentation
- Biomedical Instrumentation
- Optical and laser Instrumentation
- Electrical Measurements

- Power plant instrumentation
- Modern electronic Instrumentation
- Basic electronics
- Neural Network & Fuzzy Logic
- Industrial Instrumentation-II

UG projects Guided:

S. No	Title of the Project work	Period of Guidance
1	Brain Tumor Detection and classification using deep learning	Frebrauary 2023 to April 2023
2	IOT Based Real Time Water Consumption flow meter	Frebrauary 2022 to April 2022
3	Patient Health Monitoring System using IOT	Frebrauary 2021 to April 2021
4	Design of a smart alert system for epileptic seizure detection	Frebrauary 2020 to April 2020
5	Vehicle ignitionoveride system to avoid drunken drive	February 2019 to April 2019
6	Votometrics	February 2018 to April 2018
7	Edge collapse based dehazing algorithm for visibility restoration real world scenes	February 2018 to April 2018
8	Wearable Real Time Health and Security Monitoring Scheme For Sports Person	February 2017 to April 2017
9	Hand gesture based bore well rescue robot	February 2016to April 2016
10	Fault detection and analysis of high speed bearings in aircraft system	February 2015 to April 2015
11	Train borne automatic track condition monitoring using IMU	February 2015 to April 2015

Workshops Attended:

- Attended Two days National Workshop on "Research Oriented Approaches On Biomedical Image Processing using matlab at Cresent University,Chennai during April 2017

- Attended Two days Workshop on "Emerging Trends and Future Perspective In Image Processing and Computer vision " at SriSairam Engg College Chennai Tamilnadu during January 2017.

- Attended One day workshop on Instrumentation Detail Engineering at Sri Sairam Engg college Chennai Tamilnadu during June 2016.

FDPs/SDPs Attended:

*Attended FDP on Recent Innovation in Electrical Electronics,Instrumentation, Automation and teaching Pedagagy by Sri Sairam Engg college Chennai Tamilnadu during 18 th to 30 May 2020

*Attended national level Faculty Development Programme on "Machine Leaarning" Organized by Sri Sairam Engg college Chennai Tamilnadu during NOV 20019.

*Attended national level Faculty Development Programme on "Process control" Organized by Madras Institute of Technology Chennai Tamilnadu during December 2017.

∗ Attended national level Faculty Development programme on "Teaching Excellence In Engg and Management " Organized by Sri Sairam Engg college Chennai Tamilnadu during June 2016.

*Attended Faculty Development programme on " Lab View Programming" SCSVMV University during October 2013

ATAL FDP ATTENDED:
 *Bioprocessing using AI(7-2-2023-21-2-2023)
*Artificial Intelligence(December 7-11)-2020
*Augmented Reality /Virtual Reality (November 23-27)-2020
*Sensor Technology(September 21-25)-2020
*Robotics(May 25-29)-2020
*smart cities (Jan 5-9)-2021

PATENT FILLED:

SMART DRIVER GUIDANCE SYSTEM FOR INDIAN ROADS

BOOK CHAPTER :

Contributed Book Chapter in Management and Engineering Research Tome

NATIONAL CONFERENCE

S. No	Title of the paper	Conference Details	Month/Year of publication
1.	Hand gesture based bore well rescue robot	National Conference "NCRTE 2016", at PB college chennai.	March 2016

INTERNATIONAL CONFERENCE

S. No	Title of the paper	Conference Details	Month/Year o
1	Design of a smart alert system for epileptic seizure detection	International conference at Srisairam Engg college	Feb 2020
2	Vehicle ignition override system to avoid drunken drive	International conference at St.Joseph college of Engg	March 2019
3	Brain Controlled Car For Disabled Using Artificial Intelligence	International conference at St.Joseph college of Engg	December 2018
4	Votometrics	International conference atpanimalar institute of technology at chennai	March 2018
5	Edge collapse based dehazing algorithm for visibility restoration real world scenes	International conference at prince DR.K.Vasudevan college of engineering and technology at chennai	March 2018
6	Wearable Real Time Health and Security Monitoring Scheme For Sports Person	International Conference at Madha Engg College at Chennai	March 2017
7	Closed loop model for blood glucose regulation system	International conference at C.Abdul hakeem college of engg and technology at vellore	July 2016
8	Closed loop control for storage tanks in refinerings using IMC Controller tuned with PSO Tech	International conference at C.Abdul Hakeem College of Engg and Technology at Vellore	July 2016

JOURNAL DETAILS

S. No	Title of the paper	Journal Details	Month/Year of publication
1	Wearable Real Time Health and Security Monitoring Scheme For Sports Person	JRDCS ,ISSN 1943-023X	JULY/2017
2	Brain Controlled Car For Disabled Using Artificial Intelligence	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD) ISSN (P): 2249-6890;	DECEMBER 2018
3	Votometrics	International Journal of Pure and Applied Mathematics Volume 119 No. 15 2018, 511-517 ISSN: 1314-3395	NOV 2018
4	Edge collapse based dehazing algorithm for visibility restoration real world scenes	International Journal of Pure and Applied Mathematics Volume 118 No. 20 2018, 3643-3647 ISSN: 1314-3395	NOV 2018
5	Vehicle Ignition override system to avoid drunken drive	International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075,VOLUME-9 ISSUE	NOVEMBER 2019

6	Glimpse of self driving car	Journal of the Gujarat research society	DECEMBER 2019
7	Design of a smart alert system for epileptic seizure detection	Test Engineering Management ISSN 0193-4120 7769-7772	May-June 2020
8	Developing a model based on meal-detection in patients for type-1 diabetes using factorial switching Kalman filter	Materials Today: Proceedings Scopus, WOS	2020, 46, pp. 4190–4194
9	Hand gesture base bore well rescue robot	Materials Today: Proceedings Scopus, WOS	2020, 46, pp. 4203–4206
10	M-Health Technology Using IOT	IEEE Explore Digital Library	2021

11	An Investigation Report on Spoting and Diagnosing Diseases from the Images of Brain by Convolutional Neural Method Using Fusion Support Vector Machine	IEEE Explore Digital Library	2022
12	Automatic Optimized Voice Based Gender Identification for Speech Recognition	IEEE Explore Digital Library	2022
13	Optimal Energy Efficiency Techniques and Security Enhancement in Wireless Sensor Network Using Machine Learning	IEEE Explore Digital Library	2022
14	Brain Tumor Detection Using Soft Computing	IEEE Explore Digital Library	2022
15	Sanitization Using Autonomous Drone	IEEE Explore Digital Library	2022

16	Design of a Hybrid Model for Controlling Flow Rate Using Venturimeter	IEEE Explore Digital Library	2022
17	Detection of Parkinson's Disease Using Voice Changes and Hand-tremor	IEEE Explore Digital Library	2022
18	Vivoice - Reading Assistant for the Blind using OCR and TTS	IEEE Explore Digital Library	2022
19	Efficient Medical Image Compression Based on Wavelet Transform and Modified Gray Wolf Optimization	*Indonesian Journal of Electrical Engineering and Informatics,*	2023