


## Sri Sai Ram Engineering College

### Department of Electronics and Instrumentation Engineering

<b>Name:</b>	 <b>Dr. S.SUBHA</b>
<b>Designation:</b>	Associate Professor
<b>Qualification:</b>	M.Tech., Ph.D.,
<b>Area of Specialization:</b>	Information and Communication Engineering
<b>Experience:</b>	Teaching- 16 years Industry: 1 year
<b>Number of Workshops/ Conferences/ FDP Attended:</b>	WORKSHOPS-9 CONFERENCES-12 FDP-10
<b>Publication:</b>	<b>Journal:</b> National: Nil International: 6 with 140 citations <b>Conference:</b> National: 3 International: 5
<b>Research Guidance:</b>	Guided 12 UG projects till date

General :	<ul style="list-style-type: none"> <li>➤ Life Member of ISTE (LM 39405)</li> <li>➤ Senior Member IEEE (98061769)</li> <li>➤ Acted as Coordinator for Entrepreneurship Awareness camp and various department activities</li> <li>➤ Department level Coordinator for Timetable, ALUMNI and NAAC</li> <li>➤ Faculty Advisor of IEEE CSS SBC (60981G)</li> </ul>
Staff Achievement:	<ul style="list-style-type: none"> <li>➤ Have won Cash awards for producing 100% results 13 times</li> <li>➤ Published 2 books on “Electronic Instrumentation “ and Fiber Optics &amp; Laser Instruments”</li> <li>➤ University Rank holder – III in UG</li> <li>➤ Gold Medalist in PG</li> <li>➤ Has got a Project grant of Rs.1,00,000 for IEDC</li> <li>➤ Published a Patent</li> </ul>

### Research Interests:

Cloud Computing, Energy Management, Optimization Control Algorithms, Smart Grid.

### Experience:

S. No	Name of the Institution	Designation	Department	Period of Experience
1.	Sri Sairam Engineering College, West Tambaram, Chennai	Assistant Professor	Electronics and Instrumentation Engg	11 years and 11 months (Dec 2011-till date)
2.	Kamaraj College of Engg& Tech, Virudhunagar	Lecturer	Electronics and Communication Engineering	04 years and 5 Months (Dec 2003-April 2008)
3.	Roof & Façade Enterprises Private Limited	Trainee Engineer	Testing	1 year (September 2003-May2007)

### Theory Subjects Handled:

- Digital Signal Processing
- Fiber Optics & Laser Instruments
- Electronic devices and circuits
- Professional Ethics
- Analog Electronic Circuits
- Internet of things
- Embedded Systems
- Computer Networks
- Process Control & Instrumentation
- Industrial Data Networks
- Industrial Instrumentation – I & II
- Microprocessors and Microcontrollers
- Biomedical Instrumentation
- Introduction to Industry 4.0 & Industrial

**UG projects Guided :**

S. No	Title of the Project work	Period of Guidance
1.	IoT based Health Monitoring System	December 2022 to April 2023
2.	Design of Cost Efficient GPS Based Anti-Theft Detection System	December 2021 to April 2022
3.	Design and development of computational algorithm for real time synchronization of diesel generator with solar power plant	December 2020 to April 2021
4.	Automatic Trolley with remote access and path surveillance	December 2019 to April 2020
5.	Closed loop control of Insulin Regulatory system for Diabetes	December 2018 to April 2019
6.	Smart ID card & Library system using RFID	December 2017 to April 2018
7.	Range based Admonition system using RSSI	December 2017 to April 2018
8.	An Interleaved fly back micro inverter using SMC algorithm	December 2016 to April 2017
9.	Beta Real Time Interface for Deaf and Global Entity	December 2015 to April 2016
10.	Secret-fragment-visible Mosaic Images based Image	December 2014 to April 2015
11.	Design & development of SAAHAK- A Human Assistance	December 2014 to April 2015
12.	Unassailable Cellular Canister using NFC	December 2011 to April 2012

**Workshops/Seminars Attended:**

DATE	VENUE	TITLE	DURATION
20.07.2019	Sri Sairam Engineering College (Department of R & D)	Intellectual Property Rights & Innovation	1 day
15.12.2018-16.12.2018	SSN College of Engineering	Energy Storage & Conversion Technologies	2 days
23.07.2018-25.07.2018	Sri Sairam Engineering College	IoT for Instrumentation Applications	3 days

09.06.2016 - 10.06.2016	Easwari Engineering College	Recent Development of Biosensors in Environmenta l Biotechnolog y	2 days
28.02.2012- 29.02.2012	Sri Sairam Engineering College	PIC Micro Controller based Embedded system Design	2 days
19.01.2012	Sri Sairam Engineering College (Department of R & D)	Art of journal & thesis writing	1 day
04.01.2008	Velammal College of Engineering & Technology, Ma durai	Advanced Power Conversion Concept for motor drives	1 day
16.11.2006	Kamaraj College of Engineering & Technology	Instrumental methods for film analysis & testing	1 day
02.09.2005	Kamaraj College of Engineering & Technology	Embedded Systems	1 day

**FDPs Attended:**

DATE	VENUE	TITLE	DURATION
25.05.2020 - 29.05.2020	NIT, Jamshedpur (ATAL FDP)	Robotics	5 Days
11.05.2020 - 15.05.2020	National Institute of Technical Teachers Training & Research, Chandigarh	Neural Network & CNN	5 Days
08.05.2020 - 09.05.2020	Velammal Engineering College, Chennai	Effective Project Proposal Writing	2 Days
27.04.2020 -	National Institute of Technical Teachers	Teaching & Learning	5 Days

01.05.2020	Training & Research, Chandigarh	for Accreditation in Technical Education	
15.04.2020 – 19.04.2020	National Institute of Technical Teachers Training & Research, Chandigarh	Internet of things	5 Days
11.06.2019 – 15.06.2019	Sri Sairam Engineering College	Process Modelling & Control	5 Days
15.09.2017 – 29.09.2017	SSN College of Engineering, Chennai	Power Converters, Control and Grid integration of Renewable Energy Sources	2 weeks
20.06.2016 - 24.06.2016	Sri Sairam Engineering College	Grid, Cloud Computing & Data Mining	5 Days
30.11.2015 01.12.2015 & 06.12.2015 – 20.12.2015	Madras Institute of Technology	Embedded Systems	7 Days
May 2004	Anna University	Professional Ethics	7 Days

#### Events Organized Outside Campus:

- Had been a part of the organizing committee for the one day workshop on “Women Entrepreneurship” at CEG, Anna University on 20/03/2019.
- Had been a part of the organizing committee member for 2<sup>nd</sup> International Conference on Contemporary Engineering Technology & Management organized by Institute of engineering research & publication at Chennai on 04/10/2019 & 05/10/2019.

**Publications:****Journals:**

<b>S. No</b>	<b>Paper Title</b>	<b>Journal Details</b>	<b>Publication details (Volume/Edition/Year and month of publication)</b>
1.	Design of Cloud Computing-Based Control Algorithm for Hybrid Power System in Smart Grid Applications	IEEE Canadian Journal of Electrical and Computer Engineering	vol.44 (1), pp. 22–29, 2021
2.	Cloud enabled automatic energy meter reading system	Test Engineering & Management	vol. 83, Mar-Apr 2020
3.	Analysis of image features for efficient classification of thyroid diseases	Test Engineering & Management	vol. 81, Issue :1, Dec 2019
4.	Closed loop control of insulin regulatory system for diabetes	Test Engineering & Management	vol. 81, Issue :1, Dec 2019
5.	Analysis of range based admonition system using proteus	Journal of Advanced Research in Dynamical and Control Systems	Vol.10, Issue:10, 2018
6.	An interleaved high frequency fly back micro-inverter using sliding mode control algorithm	Pakistan Journal of Biotechnology	Vol.14, Issue:2, Jan 2017
7.	Tuning Algorithms for PID Controller Using Soft Computing Techniques	International Journal of Computer Science & Network Security	Vol.8, No.4, April 2008

**Conference proceedings:**

<b>S. No</b>	<b>Title of the paper</b>	<b>Conference Details</b>	<b>Month/Year of publication</b>
1.	Visual Object Detection in Extreme Dark Condition	Proceedings of 2023 3rd International Conference on Innovative Practices in Technology and Management, ICIPTM 2023,	2023, pp. 1-5
2.	A Remote Health Care Monitoring system using internet of medical things (IoMT)	Proceedings of 2023 3rd International Conference on Innovative Practices in Technology and Management, ICIPTM 2023,	2023, pp. 1-6
3.	Design of Cost Efficient GPS Based Anti-Theft Detection System	Proceedings of the 2021 4th International Conference on Computing and Communications Technologies, ICCCT	pp. 676–681
4.	Design and development of computational algorithm for real time synchronization of diesel generator with solar power plant	Proceedings of the 2021 4th International Conference on Computing and Communications Technologies, ICCCT	pp. 428–433
5.	Cloud enabled automatic energy meter reading system	International Conference on Innovation in Engineering Sciences, Management & Technology at S.B Jain Institute of Technology, Management & Research	December 2019 (12.12.2019 & 13.12 2019)
6.	Closed loop control of Insulin Regulatory system for Diabetes	National Conference on Smart Innovations in Communication and Computing (NCSICC'19)	March 2019
7.	Smart ID card & Library System using RFID	7 <sup>th</sup> International Conference on Informatics & Computing in Engineering Systems at S.A. Engineering College, Chennai.	March 2018 (21.03.2018 & 22.03.2018)

8.	Range based Admonition System using Received Signal Strength Indication (RSSI)	2 <sup>nd</sup> National Conference on Advanced Signal Processing, Communication & Networking at PSNA College of Engineering & Technology, Dindigul	March 2018 (02.03.2018)
9.	An Interleaved High Frequency Fly back Micro Inverter Using Sliding Mode Control Algorithm	4 <sup>th</sup> International Conference on Innovation in Information, Embedded & Communication Systems at Karpagam College of Engineering, Coimbatore	March 2017 (17.03.2017 & 18.03.2017)
10.	Secret Fragment Visible Mosaic Images based Image transmission	IEEE Sponsored 2 <sup>nd</sup> International Conference on Innovations in Information, Embedded & Communication Systems	March 2015
11.	Design & development of SAAHAK – A Multipurpose Human Assistance robot	IEEE Sponsored 2 <sup>nd</sup> International Conference on Innovations in Information, Embedded & Communication Systems	March 2015
12.	Design and Implementation of Real time Automated Industrial Testing Process Using Lab view	4 <sup>th</sup> National conference on VLSI, Embedded systems, Signal Processing and Communication Technologies at Aarupadaiveedu institute of technology, Chennai	April 2011 (07.04.2011 & 08.04.2011)

#### ONLINE CERTIFICATIONS / COURSES:

- ❖ Had Successfully completed four weeks course on “ Research Writing” during Jan –Jun 2018 with elite ranking
- ❖ Had Successfully completed four weeks course on “ Biomedical Nanotechnology” during Jul –Dec 2018 with elite ranking
- ❖ Had Successfully completed twelve weeks course on “ Introduction to Internet of Things” during Jul –Dec 2019 with elite ranking
- ❖ Acted as NPTEL Translator for the course “Tale 2 : Course design & Instruction of engineering Course “ ( Translator ID : 1263)