


Sri Sai Ram Engineering College

Department of Instrumentation and Control Engineering

Name: G.JAYANTHI	
Designation:	Assistant Professor
Qualification:	M.E. (PhD)
Area of Specialization:	Applied Electronics
Experience:	Teaching- 15 years 7 months
	Industry/Polytechnic: Nil
Number of Workshops/ Conferences/ FDP Attended:	WORKSHOP:10 FDP- 48 CONFERENCE-11
Publication:	JOURNAL: 10 NATIONAL: NIL INTERNATIONAL: 10
	CONFERENCE:09 NATIONAL: 01 INTERNATIONAL: 08
Research Guidance:	Guided more than 30 UG projects till date
General:	<ul style="list-style-type: none"> * Website coordinator of the department *Time-table co-ordinator of the department *NAAC-criteria-6 co-ordinator of the department * Department Creative Innovator * Life Member in ISTE *IEEE Professional society member and member of RAS society.
Staff Achievement	<ul style="list-style-type: none"> * Topper in "Digital Circuits" 12 weeks online course conducted by NPTEL (Jul-Oct 2019). * Topper in "Accreditation and Outcome Based Learning" 8 weeks online course conducted by NPTEL (Aug-Oct 2022). * Received NPTEL Beliver and Enthusiastic award from NPTEL

Experience:

S.no	Name of the institution	Designation	Department	Period of experience
1.	SRI KRISHNA ENGG COLLEGE	LECTURER	Electronics & Communication Engineering	11 months (18.6.2007 to 23.5.2008)
2.	SRI SAI RAM ENGINEERING COLLEGE	ASSISTANT PROFESSOR	Instrumentation & Control Engineering	14 yrs 8 months (2.7.2008 till date)

Workshops/ Conferences/ FDP Attended

Workshop Attended:

1. Completed Faculty development workshop on “**Product Engineering for Real-Life Problems**” at IIT Madras Research Park, Chennai from 28th Sep 2022 to 30th Sep 2022.
2. Kalam Program for **IP Literacy and Awareness** from 15th to 23rd Oct 2020 by Ministry of education Innovation Cell AICTE (Online).
3. Five weeks webinar series on “**Recent Trends in Sensors and Automation**” from 6th Jun to 4th July 2020 at SRI RAMAKRISHNA ENGINEERING COLLEGE (Online).
4. Webinar on **AI Applications in Electrical Power Industry** on 23rd Jun 2020 at R.M.D. Engg College (Online).
5. Participated in the IIC Online Sessions conducted by Institution's Innovation Council (IIC) of MHRD's Innovation Cell, New Delhi to promote **Innovation, IPR, Entrepreneurship, and Start-ups** among HEIs from 28th April to 22nd May 2020.
6. Attended online Webinar Skycampus **digital knowledge series** organized by ICT academy Apr-May 2020.
7. Training on **DCS & PLC Overview** by Yokogawa India Ltd from 18th to 22nd Jul 2016.
8. One day Technical seminar **SIEMENS PLC, SCADA and DCS**
9. Seminar on **Automobile electronics – Key enabler of efficiency and safety** organized by MIT Alumni association on 13th Feb 2013 at GRT grand, Chennai.
10. Workshop on **MEMS Technology and Applications** at Rajlakshmi Engineering College.

Conferences Attended:

1. Presented a paper titled **“Low Cost Mobile Inverted Pendulum Using Kalman Filter With Fuzzy Based PID Controller”**, in International Conference on Power, Energy, Control and Transmission Systems (ICPECTS), at Sri Sai Ram Engg. College Chennai, 8-9 Dec- 2022
2. Presented a paper titled **“GSM-Based Gas Efflux Monitoring using MQ- 2 Sensors”**, in International Conference on Power, Energy, Control and Transmission Systems (ICPECTS), at Sri Sai Ram Engg. College Chennai, 8-9 Dec- 2022
3. Presented a paper titled **“Smart Heart Health Monitoring System Using IoT”**, in the International Conference on Communication, Computing and IoT, at Sri Sairam Engineering College (online), 10-11th March 2022.
4. Presented a paper titled **“Wireless Powered Sensor Network Based COVID Dissemination Quantifier”**, in the International Conference on Communication, Computing and IoT, at Sri Sairam Engineering College (online), 10-11th March 2022.
5. Presented a paper titled **“Voice-O-Mata Using IOT”**, in the 1st International Conference on Circuits, Signals, Systems and Securities (ICSSS 2020), at Bannari Amman Institute of Technology (online), 11-12 Dec- 2020.
6. Presented a paper titled **“Smart Monitoring and Control of Water Filtration System Using IOT”**, in International Conference on Power, Energy, Control and Transmission Systems (ICPECTS), at Sri Sai Ram Engg. College Chennai (online), 9-10 Dec- 2020.
7. Presented a paper titled **“Automation using PLC and IIOT monitoring in jaggery preparation”** in the 2nd International Conference on Innovation and Advanced Multidisciplinary Research (ICIAMR- 2019) – Singapore, 12-13 Oct- 2019.
8. Presented a paper titled **“Comprehensive and Smart Evaluation of Pipeline Leakage detection using IIOT”** in the International Conference on Emerging trends in Computing, Electrical and Electronics (ETCEE'19) at Alpha Engineering College, 17th march 2019.
9. Presented a paper titled **“COST EFFECTIVE PROCESS AUTOMATION USING HMI”** in the International Conference on Power, Energy, Control and Transmission Systems-2018 at Sri Sai Ram Engg. College Chennai, 22-23 Feb 2018.
10. Presented a paper titled **“Automation in clay processing compact logic PLC and factory talkview studio SCADA”** in 4th International conference on Electrical, Electronics, Instrumentation and Computer Communication at Karpagam College of Engineering, 19- 20 Jan -2018.

11. Presented a paper titled “**2D MEDICAL IMAGE COMPRESSION USING INTEGER WAVELET TRANSFORM**” in National conference at Sri Sai Ram Engg. College Chennai, 2007.

FDP Attended:

1. Completed " **Module 1: Orientation towards technical education and curriculum aspects**" of NITTTR Febuary 2023 organized by AICTE.
2. Completed " **Module 6: Student assessment and evaluation**" of NITTTR Febuary 2023 organized by AICTE.
3. Completed " **Module 8: Institutional management and administrative procedures**" of NITTTR Febuary 2023 organized by AICTE.
4. FDP on “**Real Time Digital Signal Processing**” 12weeks online course conducted by NPTEL during Jul-Oct 2022.
5. FDP on “**Accreditation and Outcome Based Learning**” 8weeks online course conducted by NPTEL during Aug-Oct 2022.
6. Completed " **Module 3: Communication Skills, Modes and Knoweldege Dissemination**" of NITTTR during Apr-May 2022 organized by AICTE.
7. Completed " **Module 2: Professional Ethics and Sustainability**" of NITTTR during Apr-May 2022 organized by AICTE.
8. Completed " **Module 5: Technology Enabled Learning & Life Long**" of NITTTR during Apr-May 2022 organized by AICTE.
9. Completed " **Module 4: Instructional Planning and Delivery**" of NITTTR during Apr-May 2022 organized by AICTE.
10. FDP on “**Introduction to Industry 4.0 and Internet of things**” 12weeks online course conducted by NPTEL during Jan-Apr 2022.
11. FDP on “**Teaching and Learning in Engineering**” 4 weeks online course conducted by NPTEL during Jan-Feb 2022.
12. FDP on “**Effective Engineering in Teaching in Practice**” 4 weeks online course conducted by NPTEL during Jan-Feb 2022.
13. Orientation/Refresher Programme on "**Machine Learning in Biomedical Engineering**" from 1st to 7th Dec 2021 organized by R.M.K Engineering College, AICTE-ISTE.
14. FDP on “**Ethics in Engineering Practice**” 8 weeks online course conducted by NPTEL during Aug-Oct 2021.

15. FDP on **“Patent Drafting for beginners”** 4 weeks online course conducted by NPTEL during Jul-Aug 2021.
16. Completed **“Module 7: Creative Problem Solving, Innovation and Meaningful R&D”** of NITTTR during Aug-Sep 2021 organized by AICTE.
17. FDP on **“Inculcating Universal Human Values in Technical Education”** from 12th to 16th Jul 2021 organized by AICTE
18. FDP on **“Data Science in IOT”** from 21st to 25th Jun 2021 at Kalinga Institute of Industrial Technology. (Online) AICTE-ATAL
19. FDP on **“Online Teaching and Learning Technologies”** from 14th to 18th Jun 2021 at Motilal Nehru National Institute of Technology Allahabad. (Online) AICTE- ATAL
20. FDP on **“AI and IOT-Based Technology for Precision Farming and Smart Agriculture”** from 7th to 11th Jun 2021 at KGiSL Institute of Technology. (Online) AICTE-ATAL
21. FDP on **“Robotics Process Automation”** from 17th to 21st May 2021 at National Institute of Electronics and Information Technology. (Online) AICTE-ATAL
22. Two-week FDP on **“Machine Learning Techniques for imaging and Health Care with Python”** from 18th to 31st Mar-2021 at Sri Sairam Engg College (Online)
23. FDP on **“Modern Pedagogical Techniques for Effective Teaching & Learning”** from 8 to 12 Feb-2021 at NRI Institute of Technology(online) AICTE- ATAL.
24. FDP on **“Internet of Things”** from 21st to 25th Jan 2021 at Siksha O Anusandhan (online) AICTE- ATAL.
25. FDP on **“Emotional Intelligence”** 8 weeks online course conducted by NPTEL during Jan-Mar 2021.
26. STTP on **“Recent Trends in Computational Intelligence for Health Care Monitoring Systems-III”** from 14-19 Dec-2020 at Bannari Amman Institute of Technology (online)
27. FDP on **“Augmented Reality (AR)/ Virtual Reality (VR)”** from 23rd Nov to 27th Nov 2020 at Guru Nanak Dev Engineering College, Ludhiana(online) AICTE- ATAL
28. FDP on **“Internet of Things”** from 7th Sep to 11th Sep 2020 at ATAL, NITTTR, Chennai (Online).
29. FDP on **“Get ready for AI with MATLAB and SIMULINK”** from 18th Jun to 20th Jun 2020 at Sri Sairam Engg College (Online)
30. Two-week FDP- **“Recent Innovations in Electrical, Electronics, Instrumentation, Automation & Teaching Pedagogy”** from 18th to 30th May 2020 at Sri Sairam Engg College (Online).
31. FDP on **“e-Sim”** from 14th to 16th May 2020 at VIT Chennai (online).

32. FDP on **“Internet of Things”** from 10th Apr to 14 Apr 2020 at NITTTR, Chandigarh (Online).
33. FDP on **“Innovation in Teaching Pedagogy”** from 10th to 14th December 2019 at Sri Sairam Engineering college.
34. FDP on **“Accreditation and Outcome based Learning”** 8 weeks online course conducted by NPTEL during Aug-Oct 2019.
35. FDP on **“Process Modelling & Control”** from 11th to 15th June 2019 at Sri Sairam Engineering College.
36. Two days FDP on **“Outcome Based Education”** from 5th to 6th Apr 2019 Conducted by IQAC of Sri Sairam Engineering College.
37. FDP on **“Enhancing soft skills and personality”** 8 weeks online course conducted by NPTEL during Feb –Apr 2019.
38. FDP on **“Teaching Pedagogy”** from 3rd to 7th Dec 2018 at Sri Sairam Engineering College.
39. FDP on **“Introduction to Research”** 8 weeks online course conducted by NPTEL during Aug–Sep 2018.
40. FDTP on **“EE 8251 - Circuit theory”** from 27th Nov 2017 to 3rd Dec 2017 at Jerusalem College of Engineering.
41. FDP on **“Linear Integrated Circuits and Its Applications”** at KCG Engineering College.
42. FDP on **“EI 6602-Process Control”** from 16th to 23rd Dec 2016 at Sri Sairam Engineering College.
43. FDP on **“EC 6703-Embedded and Real Time Systems”** from 6th to 13th Jun 2016 at Sri Sairam Engineering College.
44. FDP on **“Embedded and Real Time System”** at MIT.
45. FDP on **“EC 2354-VLSI design”** from 9th to 15th Dec 2013 at MIT.
46. FDP on **“World Class Higher Learning Institutions and Faculties”** on 12th Dec 2012 at Sri Sairam Engineering College.
47. SDP on **“Mobile Networks”** at Sri Sairam Engineering College 2008.
48. FDP on **“CSIR-Smart Sensors for Industrial Applications – HoTP on MEMS Pro V0.6”** at Sri Sairam Engineering College 2008.

NPTEL Online Certification Course:

1. Online Certification Course on **Real Time Digital Signal Processing**
2. Online Certification Course on **Introduction to Industry 4.0 and Internet of things**
3. Online Certification Course on **Python for Data Science**
4. Online Certification Course on **Education for Sustainable Development(Gold)**
5. Online Certification Course on **Teaching And Learning in Engineering (TALE)**

6. Online Certification Course on **Effective Engineering Teaching In Practice**
7. Online Certification Course on **Ethics in Engineering Practice**
8. Online Certification Course on **Patent Drafting for Beginners**
9. Online Certification Course on **Emotional Intelligence**
10. Online Certification Course on **Accreditation and Outcome based Learning (Topper)**
11. Online Certification Course on **Digital Circuits (Topper)**
12. Online Certification Course on **Enhancing soft skills and personality**
13. Online Certification course on **Control System**
14. Online Certification Course on **Introduction to research**

Completed Online Courses:

1. Completed **Udemy 11 hours** course titled “Learn Python language fundamentals in simple way”, on 22.09.19.
2. Completed **Udemy 2 hours** course titled “Introduction to IOT using Raspberry Pi”, on 21.09.19.
3. Completed **Udemy 11.5 hours** course titled “IOT#4: IOT Automation with Raspberry Pi”, on 22.09.19.
4. Completed **Skillup Online- Future skills** course titled “Foundational Artificial Intelligence”, on 4.03.2020.
5. Completed **Simplilearn- Future skills** course titled “Introduction to Artificial Intelligence”, on 01.04.2020.
6. Completed **Coursera** course titled “Building Arduino Robots and Devices”, on 08.05.20.
7. Completed **Coursera** course titled “Internet of things: How did we get there?”, on 08.05.20.
8. Completed **Coursera** course titled “Introduction to programming with MATLAB”, on 21.05.20.
9. Completed **Coursera** course titled “The Arduino platform and C Programming”, on 20.05.20.
10. Completed **Udemy 23 hours** course titled “Deep learning A-Z hands on Artificial Neural Networks”, on 13.05.20.

Workshops Organized:

1. Conducted Hands on training “**Smart Instrumentation and Embedded Programming**” on 28th Dec 2022.
2. Conducted **Mini Project Exhibition- EXHIBITION-SAI I&C PROYECTO CREATIVO’22** in association with ISTE on 23rd May 2022 for third year students.

3. Conducted **Mini Project Exhibition** in association with ISTE on 15th May 2021 for Second year and third year students.
4. Organized (Coordinator) AICTE sponsored 2 weeks **FDP on “Machine Learning Techniques for Imaging and Healthcare with PYTHON”**, Slot I, in Online mode from 28/01/2021 to 10/02/2021.
5. Organised 2days Workshop On **“Recent Trends and Its Applications – Series-1, Sensor Interfacing in LabVIEW”** On 17-12-2020 & 18-12-2020
6. Conducted **Mini Project Exhibition** in association with ISTE on 27th February 2019 for third year students.
7. Organized (Event Coordinator) 18th **ISTE Tamilnadu section Engineering Students Convention** on 1st March 2019.
8. Conducted 2 days Value added training programme on **“Embedded systems-Arduino Programming”** in association with ISA student chapter SEC on 14.8.2018 and 16.8.2018
9. In association with IEDC organized 3 days **Entrepreneurship Awareness Camp (EAC)** Supported By EDII, NSTEDB, Govt Of India from 12th Feb to 14th 2018
10. Conducted **Mini Project Exhibition** in association with ISTE on 22.04.2016 for third year students.

Publication

- Profile URL: <https://vidwan.inflibnet.ac.in/profile/182303>**
- Scopus Author ID: 57204873105

Journal: 10

National: - nil

International: - 10

1. **“Social Distancing Detector And Indicator Using Arduino”**, Ilkogretim Online - Elementary Education Online, 2020; Vol 19 (Issue 3): pp. 4722-4732.
2. **“Computer Based Power Theft Detection And Automated Isolation Scheme”**, Studies in Indian Place Names (UGC Care Journal), Volume-40 Issue-3, Feb-2020.
3. **“Dual Detection of MASTIC Sealant”**, Journal of the Gujarat Research Society, Volume21, Issue-17, Dec-2019.
4. **“Automation using plc and iiot monitoring in jaggery preparation”**, International Journal of Innovative Technology and Exploring Engineering (IJITEE), ISSN: 2278-3075, Volume-9 Issue-1, Nov-2019.

5. **“Detection of Volatile Organic Compound using Electrochemical Sensor”**, International Journal of Recent Technology and Engineering (IJRTE), ISSN: 2277-3878, Volume-8 Issue-3, Sept-2019.
6. **“Process automation of demineralization plant using Delta PLC, wonderware intouch and Delta HMI”**, International Journal of Recent Technology and Engineering (IJRTE), ISSN: 2277-3878, Volume-8 Issue-3, Sept-2019.
7. **“Doctor Assistive System Using Augmented Reality for Critical analysis”**, International Journal of Engineering Research in Computer Science and Engineering (IJERCSE), Volume-6, pp 91-98, Jul-2019.
8. **“Automation in clay processing compact logic PLC and factory talkview studio SCADA”** International Journal Of Pure and Applied Mathematics, Volume 118 N0. 11, 187-193 ISSN: 1314-3395, 2018.
9. **“Methodical Privacy Preservation Proficiency on Medical Records”** International Journal for research in applied science & Engineering Technology (IJRASET), Vol-5, Issue-12, pp.2463-2467, December-2017.
10. **“Fault Tolerant design of a Quadcopter through Run time Transformation”** International Journal for research in applied science & Engineering Technology (IJRASET), Vol-5, Issue-11, pp.2621-2631, November-2017.

Conference Proceeding: 09

National: - 01

1. **“2D Medical Image Compression Using Integer Wavelet Transform”**, National conference at Sri Sai Ram Engg. College Chennai, 2007.

International: -08

1. **"Low Cost Mobile Inverted Pendulum Using Kalman Filter with Fuzzy Based PID Controller,"** 2022 International Conference on Power, Energy, Control and Transmission Systems (ICPECTS), Chennai, India, 2022, pp. 1-6, doi: 10.1109/ICPECTS56089.2022.10047593.
2. **"GSM-Based Gas Efflux Monitoring using MQ-2 Sensors,"** 2022 International Conference on Power, Energy, Control and Transmission Systems (ICPECTS), Chennai, India, 2022, pp. 1-3, doi: 10.1109/ICPECTS56089.2022.10046914.
3. **"Smart Heart Health Monitoring System Using IoT,"** 2022 International Conference on Communication, Computing and Internet of Things (IC3IoT), 2022, pp. 1-6, doi: 10.1109/IC3IOT53935.2022.9767940.

4. **"Wireless Powered Sensor Network Based Covid Dissemination Quantifier,"** 2022 International Conference on Communication, Computing and Internet of Things (IC3IoT), 2022, pp. 1-4, doi: 10.1109/IC3IOT53935.2022.9768025.
5. **"Role of sensor technology in liquid level measurement of molten metal"**, Materials Today: Proceedings, Volume 45, Part 2, 2021, Pages 2524-2527, ISSN 2214-7853, <https://doi.org/10.1016/j.matpr.2020.11.126>.
6. **"Voice-O-Mata Using IOT"**, IOP Conf. Series: Materials Science and Engineering, DOI:10.1088/1757-899X/1084/1/012124, 2021.
7. **"Smart Monitoring and Control of Water Filtration System Using IOT"**, 2020 International Conference on Power, Energy, Control and Transmission Systems (ICPECTS), 2020, pp. 1-5, doi: 10.1109/ICPECTS49113.2020.9336991.
8. **"Cost Effective Process Automation Using HMI"** in the International Conference on Power, Energy, Control and Transmission Systems-2018 during 22nd & 23rd Feb 2018 at Sri Sai Ram Engg. College Chennai.

Patents Registered/ Awarded:

1. "Wearable IOT enabled Health sensor framework system"

Application Number: 202141056936A

Date of Filing: 08.12.2021

Publication Date: 14.01.2022

Role: Applicant

2. "Frequency Based Insect Repellent System for Agricultural Field"

Application Number: 202041036488A

Date of Filing: 25.08.2020

Publication Date: 04.09.2020

Role: Applicant