

Sri Sai Ram Engineering College

Department of Instrumentation & Control Engineering

GOWRISWARI S



Designation :	Assoc Prof / ICE DEPT
	ME MEDICAL ELECTRONICS BE INSTRUMENTATION AND CONTROL
Area of Specialization :	Signal and Image Processing, Python, Machine Learning
Experience :	Teaching : UG: 21 Years 6 months
No. of workshop / Conferences / FDP attended :	Workshops :14 Conferences- : 9 FDP : 20 Training : 10
Publication :	Journal International : 6 Conference International : 9
Research Guidance :	Guided 42 UG projects till date
Professional Membership :	AMIE,ISTE, IEEE
Staff Achievements :	Won cash awards in 25 subjects till date for 100% results
Responsibilities :	Dept NAAC Co-Ordinator, Dept Guest lecture Organizer Dept IEI Co-Ordinator

Experience:(Details)							
S No	Name of the post	Employer	Perid of Employment				Teaching/Industrial
			From	To	Years	Months	
1	Assoc Prof	Sri Sairam Engineering College	Jun 2018	Till date	4	6	Teaching
2	AP Gr -I	Sri Sairam Engineering College	Aug 2013	Jun 2018	4	10	Teaching
3	AP Gr- II	Sri Sairam Engineering College	Aug 2007	Aug 2013	6	-	Teaching
4	Lecturer	Sri Sairam Engineering College	Oct 2005	Aug 2007	1	10	Teaching
5	Lecturer	Thangavelu Engineering College	June 2001	Oct 2005	4	4	Teaching

Project guidance/Funded Projects

- Guided In house projects for final year ICE student batches in the field of signal and image processing
- “BIO INSPIRED BEACH CLEANER” project –IEDC 2016 funded by an amount of Rs 1,00,000 (in progress – (2016-2017)).
- “Touch-less finger imaging biometric system based on ridge classification and LBP”Project – CSE 06 An amount of Rs 10,000 Funded by Tamil Nadu State Council for Science and Technology DOTE Campus, Chennai 600 025 under STUDENT PROJECTS SCHEME (2012-2013)

Awards

- Received Best Mentor Award for Batch 2021-2022 from Skill Development Club .
- Received Best Faculty Advisor Award 2021 from IEI on 3rd September 2021
- Received Mentor for student in ATL Tinkerpreneur 2021

NITTTR

- Successfully completed Module 2 Professional Ethics and Sustainability.
- Successfully completed Module 4 Communication Skills Modes and Knowledge Dissemination
- Successfully completed Module 6 Student Assessment and Evaluation.
- Successfully completed Module 7 Creative Problem Solving , Innovation and Meaningful R &D.

Expert member

- Nominated as evaluator for Smart India Hackathon 2022
- Nominated as an evaluator for the TOYCATHON 2021
- Nominated by AICTE as expert for preparing 1st Phase of the Question Bank for Student Learning Assessment (SLA) Project (2021) and to give the contribution in this National level initiative to understand Level and Gains of students studying in Technical Institutions of India.

Seminar /Training Attended

1. Successfully completed Bride Inspection Expert Level 1 online days training during 9th June to 11th June 2022.
2. Successfully undergone Faculty Industrial Training Program at Kasa Analgen India Private Ltd Thirumudivakkam during the period 1-6-2022 to 18-6-2022.
3. Successfully completed days National Workshop on “ Soft Computing Techniques using MATLAB for Engineering Solutions” sponsored by Gujarat Council of Science and Technology (GUJCOST) AND Paul University from 24th March 2022 to 26th March 2022 at Paul University Vadodara.
4. Attended the online training conducted by Faculty Training centre-Goverment college of technology-coimbatore on “Six sigma-An Overview and practical training on 10-07-2020.
5. Attended the AICTE sponsored Online National seminar on “Importance of Calibration” conducted by Vellore Institute of Technology - Vellore in association with Fluke Technologies on 10-07-2020
6. Attended the AICTE sponsored Online National seminar on "R & D Proposal writing for Faculties conducted by Sri Sairam Engineering College on 12-06-2020
7. Attended the online seminar to promote, Innovation, IPR, Entrepreneurship and Start ups among HEIs conducted by IIC of MHRDs Innovation Cell during the period 28-04-2020 to 25-05-2020.
8. Attended the AICTE sponsored National seminar on “Current trends and future role of renewable energy” at Sri Sai Ram engineering college from 8/10/13 to 9/10/13.
9. Attended the Lecture on “Safety Integrity a life cycle Approach” Conducted by ISA South India Section on 27/11/10
10. Attended the “National conference on Information and communication technology” at Sri Sai Ram Engineering College from 9/3/07 – 10/3/07.

Workshop Attended

1. Attended AICTE Sponsored Six days Only Short Term Training Programme on “Medical Image Analysis” Organized by V.S.B Engineering College from 2nd to 7th November 2020.
2. Attended AICTE Sponsored Online Six days Short Term Training Programme on “ Developing R&D Culture in Educational Institutes through Project based Learning” Organized by Poornima College of Engineering from 19th to 24th October 2020
3. Attended Amrita- Hebeon Online Webinar cum Workshop on “Data Science using python” during 17th to 25th June 2020 organized by Amirta College of Engineering and Technology, Nagercoil and Hebeon Technologies, Hyderabad

4. Successfully completed Instructor -led live online Two-Days National Workshop Series on AI for” COVID-19 outbreak prediction Forecasting, Data Analysis & Data Visualization on 16th &17th April 2020 Organized by EduxLabs (Esoir Business Solution)
5. Attended two days Value added training Programme titled “Embedded system- Arduino programming “conducted in Sri Sairam Engineering College in association with RETECH SOLUTIONS Pvt Ltd on 14th and 16th August 2018.
6. Attended the ISO 9001:2015 Quality Management system and Audit Training program conducted by Creative Management Consultants on 8/6/2018 and obtained Internal Auditor certificate
7. Attended the Workshop on “Emerging Trends and Future Perspective in Image Processing and Computer Vision” conducted by Sri Sai Ram Engineering College from 3/1/2018 to 5/1/2018.
8. Attended the Certificate training Course on “DCS & Field Instruments Overview” conducted by Technical School of Yokogawa India Ltd from 17.07.2017 to 21.07.2017 at Sri Sai Ram Engineering College from 17/7/2017 to 21/7/2017.
9. Attended the Workshop on “Emerging Trends and Future Perspective in Image Processing and Computer Vision” conducted by Sri Sai Ram Engineering College from 4/1/2017 to 6/1/2017.
10. Attended the Workshop on “Recent advances in Bio signal Processing and Hands on Training in Labview” conducted by GKM engineering Colege from 29/12/15- 30/12/15
11. Attended the workshop on “Medical Imaging Techniques and Telemedicine” conducted by Eswari Engineering college from 21/3/12 to 22/3/12.
12. Attended the Workshop on “Image Processing and supporting tools” conducted by Anna University from 9/3/12 to 11/3/12
13. Attended a Workshop on “Application of Matlab and Labview for Biomedical Applications” conducted by B.S. Abdur Rahman University from 14/12/11 to 15/12/11.
14. Attended the Workshop on Smart Sensors for industrial Applications at Sri Sai Ram Engineering College from 1/12/11 to 2/12/11.

FDP Attended

1. Attended online FDP on “Image Audio & Video Processing for pattern Recognition “ Organized by IEEE signal Processing Madras Chapter during the period 23rd to 28th June 2022
2. Attended online FDP on “Artificial Intelligence “from 25-01-2021 to 29-01-2021 at Birla Institute of Technology, Mesra,Ranchi conducted by AICTE Training And Learning (ATAL) Academy.
3. Attended online FDP on “Artificial Intelligence “from 04-01-2021 to 08-01-2021 at PSNA college of engineering and Technology conducted by AICTE Training And Learning (ATAL) Academy.
4. Attended online FDP on “Data Sciences“ from 05-10-2020 to 09-10-2020 at central University of Tamil Nadu conducted by AICTE Training And Learning (ATAL) Academy.
5. Attended online FDP on “Data Sciences” “from 16-11-2020 to 20-11-2020 at Indian Institute of Information Technology ,Design & Manufacturing Kancheepuram conducted by AICTE Training And Learning (ATAL) Academy.
6. Attended TEQIP-III Sponsored Two week online International FDP on “

Multidisciplinary Research Innovation in Engineering, Science and Technology for Sustainable Development “ from 26th October to 7th November 2020 by Bipin Tripathi Kumaon Institute of Technology Dearahat Almora

7. Attended online FDP on “Artificial Intelligence “from 03-06-2020 to 07-06-2020 at central University of Kerala conducted by AICTE Training And Learning (ATAL) Academy.
8. Attended AICTE sponsored 2 weeks FDP on Data Science and Exploratory Data Analysis with R and Python from 7/6/2019 to 20/6/2019 at Sri SaiRam Engineering College
9. Attended Faculty development program on “Engineering Teaching Pedagogy and Teaching Learning Process” held from 3/12/2018 to 7/12/2018 at Sri Sairam Engineering College.
10. Attended Anna University approved 7 days Faculty development Training Programme on “ GE8151-Problem solving and python Programming” conducted by Sri Sai Ram Engineering College from 11/6/2018 to 18/6/2018.
10. Attended Anna University approved 7 days Faculty development Training Programme on “Embedded system” at Saveetha Engineering College from 1/12/2017 to 8/12/2017.
11. Attended Anna University approved 7 days Faculty development Training Programme on “Process Control” at Easwari Engineering College from 1/12/2016 to 4/12/2016 and 9/12/2016 to 11/12/2016.
12. Attended the FDP on “Role of Academic Excellence in Developing World class Higher Learning Institutions and faculties” at Sri Sai Ram Engineering College on 12/12/2012
13. Attended the FDP on “Power flow Solution and demo on CYME Power Engineering Software” at Sri Sai Ram Engineering College on 27/1/11.
14. Attended SDP on Technology Advances in Biomedical Engineering at St Peter’s University from 6/1/11 to 7/1/11.
15. Attended the SDP on “Industrial Design and Delivery” at Sri Sai Ram Engineering College on 10/3/10.
16. Attended the FDP on “VHDL Programming” at Sri Sai Ram Engineering College on 6/3/10.
17. Attended the SDP on “Recent developments in Computing” at Sri Sai Ram Engineering College on 21/4/10.
18. Attended the FDP on “Control System” at Sri Sai Ram Engineering College on 13/2/09.
19. Attended the Lecture on “Relevance of Instrumentation and Automation in Today’s world” conducted by ISA South India Section on 10/1/08.
20. Attended the FDP “Mechatronics” conducted by Anna University from 11/6/07 to 23/6/07.

Conferences/Publication : (Details)

1. Presented a conference paper titled “Hyper parameters Optimization using Gridsearch Cross Validation Method for machine learning models in Predicting Diabetes Mellitus Risk” in the 2022 International Conference on Communication Computing & Internet of Things (IC3ICOT-2022) held on 10th and 11th March 2022
2. Presented paper Titled “Machine Monitoring and Automatic closure using IOT” in International Conference Research Advancements & Challenges in Engineering Sciences (ICRACE'20) at Velammal Institute of Technology, Panchetti, Chennai .

on 6th march 2020.

3. Presented paper Titled “Analysis of geometrical traits of wheat kernels using machine learning techniques” in IC3IOT 2020 2nd International Conference on Computing, Communication and Internet of Things at Sri Sairam Engineering College on 20-02-2020.
4. Presented paper Titled “Automatic Inventory Control” presented in International Conference on Engineering & Advancement in Technology at Krishna college of Engineering & Technology during 22nd & 23rd March 2018.
5. Presented paper titled “Machine Monitoring and Automatic Shutdown system for Air Blower” in National conference in NCRTECC-2017 at Sri Sairam Engineering College on 23/3/17.
6. Presented paper titled “ Cost Effective Infant incubator with integrated billipad and telemonitoring ” in National conference in NCRTECC-2016 at Sri Sairam Engineering College on 8/4/16
7. Presented paper titled “AUTOMATED SEWER LINE CLEANING AND MONITORING” in National conference in NCRTECC-2016 at Sri Sairam Engineering College on 8/4/16.
8. Paper titled “Analysis of detrending Techniques with application to ectopic beat reduction in HRV signal” presented in national conference on Advanced computing and Information technology organized by CSE, IT & MCA in collaboration with ICTACT on 3rd May 2013.
9. Paper Titled “ Sixth Sense Control of Electronic Gadgets” presented in National conference for Physically Disabled conducted by Federation of Physically challenged at Tamil Nadu wing, at Anna University during March 2012

Paper Published in Journal

1. Published “ Medical Image Learning By Integrating Gradient and Kernel Processing in to Feature Extraction ” AIP Conference Proceedings 2519,030012 (2022) . <https://doi.org/10.1063/5.0109761> Published Online 03 October 2022
2. Published paper “Hyper parameters Optimization using Gridsearch Cross Validation Method for Machine Learning Models in Predicting Diabetes Mellitus Risk “<https://doi.org/10.1109/IC3IOT53935.2022.9768005>- Date Added to IEEE Xplore: 12 May 2022, Publisher: IEEE
3. “Machine Health monitoring using IOT” Journal of Gujarat Research Society, Volume 21 Issue 17, December 2019, ISSN: 0374-8588
4. “IoT Based Residence Supervising and Alerting System” Journal of Emerging Technologies and Innovative Research June 2019, Volume 6, Issue 6 ISSN-2349-5162
5. “Automatic Inventory Control” Journal of Advanced Research and Control Systems ISSN Number 1943-023X, Vol 10, 05-Special Issue 2018 ,page No 288-294
6. “Cost Effective Infant Incubator with Integrated Billipad and Telemonitoring”, International Journal of Latest Trends in Engineering and Technology(IJLTET), Special Issue NCTRCC-2016,Page no 57-62 e-ISSN:2278- 621X,p-ISSN:2319-3778,June 2016.

Online Courses

1. Successfully completed CITI Program Course “ **Human Research**” (curriculum Group) **Data or Specimens Only Research** 1- Basic Course under requirements set by Massachusetts Institute of Technology Affiliates. Completion date 5-3-2022, Expiration Date 4-3-2025. Record ID 47800171.
2. Successfully Completed an online non-credit course “ Understanding and Visualizing Data with Python” authorized by University of Michigan ,offered through Coursera.
3. Successfully Completed an online non-credit course “Natural Gas” authorized by University of Bufflalo and the State University of New York and offered through Coursera
4. Successfully Completed an online non-credit course “ Air Pollution- a Global Threat to our Health” authorized by University of Copenhagen and offered through Coursera
5. Successfully Completed an online non-credit course “ Energy: The Enetrprise” authorized by University of Bufflalo and the State University of New York and offered through Coursera
6. Successfully Completed an online non-credit course “ Introduction to Indoor Air Quality” authorized by The Hong Kong University of Science and Technology and offered through Coursera
7. Successfully Completed an online non-credit course “ The Sustainable Development Goals- A global, transdisciplinary vision for the future” authorized by University of Copenhagen offered through Coursera
8. Successfully Completed an online non-credit course “Successful Presentation” authorized by University of Colorado Boulder offered through Coursera
9. Successfully Completed an online non-credit course “Academic Information Seeking” authorized by University of Copenhagen and Technical University of Denmark (DTU) offered through Coursera

Patent

1. A patent titled “An Intelligent Smart Street Light System with Safety Technology and Environment Monitoring” was published on dec 2020.

Result Award

1. Successfully completed NPTEL-AICTE FDP on “**Introduction To Industry 4.0 And Industrial Internet Of Things**” 12 weeks July to Oct 2022
2. Awarded “Elite” NPTEL ONLINE Certification (funded by the ministry of HRD, Govt of India) for completing the course “ Emotional Intelligence” during Jan-Mar 2021.
3. Awarded Statement of Accomplishment for successfully completing “ Statistical Thinking in Python on May 22,2020 by Data Camp
3. Awarded GOLD medal for successfully completing Theory and Practical Session of the Amrita- Hebeon Online Webinar cum Workshop on “Data Science using python” during 17th to 25th June 2020 organized by Amirta College of Engineering and Technology, Nagercoil and Hebeon Technologies, Hyderabad
4. Awarded “Elite” NPTEL ONLINE Certification (funded by the ministry of HRD,

Govt of India) for completing the course “ Python for Data Science” during Aug-Sep 2019.

5. Awarded “NPTEL-AICTE Faculty Development Programme” (funded by the ministry of HRD, Govt of India) for completing the course “Developing Soft Skills and personality” during Aug-Oct 2018.
6. Awarded “Elite” NPTEL ONLINE Certification (funded by the ministry of HRD, Govt of India) for completing the course “Developing Soft Skills and personality” during Aug-Oct 2018.
7. Awarded NPTEL ONLINE Certification (funded by the ministry of HRD, Govt of India) for completing the course “Basic Electrical Circuits” during Aug-Oct 2018.
8. Awarded NPTEL ONLINE Certification (funded by the ministry of HRD, Govt of India) for completing the course “Data Mining” during Feb-Mar 2018.
9. Awarded “Elite” NPTEL ONLINE Certification (funded by the ministry of HRD, Govt of India) for completing the course “Analog Circuits” during Feb-Mar 2018.