

## Sri Sairam Engineering College

### Department of Electrical and Electronics Engineering

1. Name : <b>Dr. Saswati kumari Behera</b>	
2. Designation:	Associate Professor
3. Qualification :	Ph.D
4. Area of Specialization :	Power system Engineering
5. Experience :	Teaching : <b>UG</b> : 21year PG :1 year Industry :Nil
6. Publication :	21
8. General :	<ul style="list-style-type: none"><li>• BIS STANDARDS CLUB MENTOR</li><li>• Nodal Cordinator - BIS</li><li>• ISO CO-ORDINATOR</li><li>• TALENT ENABLER</li><li>• NBA Cordinator(criteria-6)</li><li>• Convenor of National Level Technical Symposium"FUERZA'12"</li></ul>

**EXPERIENCE:**

Name of the Employer	Position Held	From	To
UCE Burla ,Odisha	Lecturer	2004 july	4 FEB 2006
Silicon Institute Of Technology, Bhubaneswar	Sr Lecturer	6 FEB 2006	31 <sup>st</sup> March 2010
Sri Sai Ram Engineering College, chennai	Sr Lecturer	1 JUNE 2010	10 <sup>th</sup> June 2018
Sri Sai Ram Engineering College, chennai	Associate Professor	11 <sup>th</sup> June 2018	Till Date

**RESEARCH PUBLICATIONS:****2025-2026**

1. GPS Vehicle Tracking System Integrated With IOT , Saswati Kumari Behera, Naveen kumar P S, Kabilan E , Sripriyan S , 2<sup>nd</sup> International Conference on Emerging Materials for Technological Applications (Integrating Artificial Intelligence and Data Science), held on 10-12 December 2025 at AITAM, Tekkali.
2. Assessing Solar-Wind Complementarity in green hydrogen production using physics- guided Explainable mechine learning , Saswati Kumari Behera , International conference on sustainable and efficient energy solutions ,ICSEES-2026

**2024-2025**

1. Fault detection of transmission line using IoT  
Saswati Kumari Behera, K Yuvaraj, P Sudharsankumar, N Sanjay , 2024 International Conference on Power, Energy, Control and Transmission Systems (ICPECTS)
2. Development of a Multi-Level Inverter with Fuzzy Logic Control for Grid-Connected Photovoltaic Systems, International Conference on Electronics, Computing, Communication and Control Technology (ICECCC), 2025

**2023-2024**

1. AI-Based Waste Classification in the Healthcare Industry  
Behera, S.K., Aouthithiye Barathwaj, S.R.Y., Vasundhara, L., Saisudha, G., Haariharan, N.C. *Artificial Intelligence and Machine Learning: An Intelligent Perspective of Emerging Technologies*, 2023, pp. 69–79
2. SmartWear An IoT-Based Integration of Home Automation and Healthcare Watch  
Behera, S.K., Saisudha, G., Vasundhara, L. *Artificial Intelligence and Machine Learning: An Intelligent Perspective of Emerging Technologies*, 2023, pp. 80–90

**2022-2023**

1. Saswati Kumari Behera, G. Prashanth, “**Autonomous Logistic Transportation System for Smart Healthcare System**” Application of Deep Learning Methods in Healthcare and Medical Science, 25 December 2022 Taylor & Francis Group.,<https://doi.org/10.1201/9781003303855>
2. Saswati Kumari Behera , Navin S.K , NEMO-SOS- A Future Trends in Smart Accident Alert Application, international conference on power, Energy, control and transmission system, 08-09 December 2022, Chennai ,<https://doi.org/10.1109/ICPECTS56089.2022.10047341>
3. **Saswati Kumari Behera** , Sai sudha G, Vasundhara L , “**Smart Wear - An Integrated Watch for Patients**” 08-09 December 2022, Chennai ,International Conference on Power, Energy, Control and Transmission Systems (ICPECTS) <http://dx.doi.org/10.1109/ICPECTS56089.2022.10047278>

### **2021-2022**

1. “Aqua BOT- IOT Based water bodies cleaning , and monitoring BOT” , International conference on Artificial intelligence and Smart system ICAIS 2022, JCT College of engineering and Technology , Coimbatore, India, 23-25th Feb 2022
2. Saswati kumrari behera “Automatic Traffic Light Management System For Pedestrian Crossing”, “National Conference on Advances in Electrical and Electronics Engineering” (NCAEEE-2022) organized by the Department of Electrical and Electronics Engineering, Sri Venkateswara College of Engineering, on 27th and 28th May 2022

### **2020-2021**

1. **Saswati Kumari Behera**, Porselvi T ,Sudharsanam V, Raj Kamal M, Venkatasubramani K, “A SMART & AUTONOMOUS WIRELESS MONITORING SYSTEM FOR METICULOUSNESS AGRICULTURE USING IOT”, PalArch’s journal of Archaeology of Egypt / Egyptology , PJAEE, 17 (6) (2020)
2. **Saswati kumari behera**, “AI BASED WASTE CLASSIFIER WITH THERMO-RAPID COMPOSTING “,*IEEE Xplore* , **SCOPUS** 09 February 2021 , <https://doi.org/10.1109/ICPECTS49113.2020.9337012>
3. **Dr. Saswati Kumari Behera**, Hariharan P , Harikrishnan M , Yathindra Kumar R, “REMOTE HEALTH MONITORING USING IOT” , **AICTE Sponsored**

**International E-conference** on Smart Technologies In electric vehicles and Power grids STEP-2021 ,27<sup>th</sup> to 29<sup>th</sup> January 2021

### **2019-2020**

1. **Saswati kumari behera**, Manish kumar gupta , “Implementation of IOT for energy management” , Test Engineering and Management,**SCOPUS** ,Dec-2019, November-December 2019 ISSN: 0193-4120 Page.4856 – 48605
2. **Saswati Kumari Behera**, Rajarathinam u and Jashwant a ,” Use Of INA219 Sensor For Locating Ground Fault, “ International Journal Of Research And Analytical Reviews (IJRAR)” **UGC approved** July-2019 Volume 6, Issue 3 , E-ISSN 2348-1269, P- ISSN 2349-5138
3. **Saswati Kumari Behera**, Suganya.S, S.Priyadarsini , “Intelligent Energy Management System Using IOT , “ **International Journal** of Recent Technology and Engineering (IJRTE) “ ISSN: 2277-3878, Volume-8 Issue-3S2, October 2019

### **2016-2017**

1. **Saswati kumari behera**, Nalin kant mohanty A FIS-GA combined approach for transmission congestion management in restructured power system Int. J. Mathematical Modelling and Numerical Optimisation, Vol. 7, Nos. 3/4, 2016, **SCOPUS**, pg 307-32
2. **Saswati kumari behera** , “Deaf Dumb voice analysis using vibration technology”- **International conference** on current trends in engineering research-new delhi-1-05-2016

### **2015-2016**

1. **Saswati Kumari Behera** , Nalin Kant Mohanty , “A FIS approach for transmission line congestion management in restructured power System -Second **International conference** on intelligent computing , communication & convergence ICCCC2016, Bhubaneswar, odisha, 24<sup>th</sup> , 25<sup>th</sup> January-2016

### **2006-2007**

1. Short circuit fault analysis of distribution transformer using ,  
STFT. (National conference of soft computing, 2006)

**Patents: (Published)**

- Title Of Invention: Intelligent Waste Classifying Bin For Eco-Friendly Bio Composting  
Application Number: 202141030061  
Date Of Filing : 05/07/2021  
Publication Date 16/07/2021
- Title Of Invention: An Intelligent Smart Street Light System With Safety Technology And Environment Monitoring  
Application Number- 202041047228  
Date Of Filing- 29/10/2020  
Publication Date (U/S 11a)- 06/11/2020
- THE IOT-ENABLED SMART HEALTH MONITORING SYSTEM IS REVOLUTIONIZING HEALTHCARE WITH CONNECTED DEVICES AND DATA ANALYSIS  
Application No.202441027587 A  
Date of filing of Application :03/04/2024  
Publication Date : 12/04/2024
- Adaptive IoT Sensor Network for Machine Learning-Based Predictive Equipment Maintenance”  
Application No.202541087667 A  
Publication Date : 17/10/2025
- IOT BASED 3-D PRINTER WITH AUDIO PLAYER (**GRANTED**)  
Design No. : 415307-001  
Date : 29/04/2024

**Faculty Development Program attended:**

- FDP on "Electric Vehicle Drive System" held from 27-02-2023 to 04-03-2023 at Jerusalem College Of Engineering, Chennai.
- Executive Leadership Training program on Building High Performance Team held from 14-12-2022 to 16-12-2022 at Sri Sairam Engineering College, Chennai
- FDP on "NO CODE AND LOW CODE MACHINE LEARNING TECHNIQUES" held from 19-12-2022 to 23-12-2022 at Sri Sairam Engineering College, Chennai.
- Quality Management System and Audit training ISO 19011:2018 ,17<sup>th</sup> October 2022 to 20<sup>th</sup> October 2022
- Quality Management System and Audit training ISO 21001:2018 , 17<sup>th</sup> October 2022 to 20<sup>th</sup> October 2022
- 5-day online FDP on the the theme “ Product Design Engineering using Fusion 360 conducted by **ICT Academy** on 01 Aug 2022 to 05 Aug 2022 at Sri Sairam Engineering College, Chennai
- 5-day online FDP on the theme “Inculcating Universal Human Values in Technical

Education” organized by **All India Council for Technical Education(AICTE)** from 12 July, 2021 to 16 July, 2021.

- FDP on "AI Solution for Optimum Utilization of Power and Energy" from 2021-7-5 to 2021-7-9 at NIT Srinagar, AICTE Training And Learning (**ATAL**) Academy
- 2 Weeks Faculty Development Program (FDP) sponsored by Department of Science and Technology (**DST**) conducted by IITM HTIC MedTech Incubator virtually from 08-03-2021 to 20-03-2021
- Energy Engineering" from 2020-9-17 to 2020-9-21 at VELAMMAL ENGINEERING COLLEGE. AICTE Training And Learning (**ATAL**) Academy Online FDP
- Ethics, Moral Values, Behavioral Science & Attitude" from 2020-10-12 to 2020-10-16 at College of Engineering Trivandrum. AICTE Training And Learning (**ATAL**) Academy Online FDP
- Modelling, simulation, control and applications of power electronics converters” from 25<sup>th</sup> to 29<sup>th</sup> November 2019 at QIS college of engineering and technology A.P
- Faculty development programme on Applications of FACTS in Power electronics & Power system conducted by Sri Sai ram Engineering college on 27<sup>th</sup> Feb-2013
- Faculty development programme on “**Mat lab application in Electrical Engineering**”- conducted by Sri Sai ram Engineering college March 7, 2012
- Faculty development programme on “**Power Flow solutions & Demo on CYME power engineering software**”- conducted by Sri Sai ram Engineering college 27<sup>th</sup> January 2011

### **NPTEL On line course**

- “Accreditation For Undergraduate Engineering Programmes”- NPTEL Online certification course- Three credit course- January to March 2021
- “Effective Engineering teaching in Practice”-NPTEL Online certification course –Feb-March 2018 (4 week course)

### **Coursera certification courses**

- Wind Energy
- Understanding Plants - Part I: What a Plant Knows
- Solar Energy Basics

- Driving business towards the Sustainable Development Goals
- Electric Power Systems
- Natural Gas
- Introduction to Google Docs
- Energy: The Enterprise
- AI For Everyone
- Energy, Environment, and Everyday Life

#### **Training Program attended**

- Six days of Faculty Industrial training program at I.P.L Product ,Sidco Industrial Estate, Thirumudivakkam, from 06/06/2022 to 11/06/2022
- Quality Management System and Audit training ISO 9001:2015 ,8<sup>th</sup> june 2018
- Quality Management System and Audit training ISO 9001:2008 ,11<sup>th</sup> & 12<sup>th</sup> October 2011

#### **Workshop Attended**

- International workshop on computational intelligence in engineering applications organised by department of EEE SRM University, Chennai .December 20.2013.
- Workshop on “ High Impact Presentation skill” conducted by Wipro at KIIT Bhubaneswar,2006

#### **Short term course attended:**

- Short term course on “**Modern Trend in Power Electronics and Drives**” from june19 to july-1 2006. conducted by University college of Engineering Burla”
- AICTE Sponsored Short Term Training Programme (STTP) on “**Electric Vehicle Evolu on - Impact on Power Grid**” Organised by Department of Electrical and Electronics Engineering, Sri Venkateswara College of Engineering during **March 22nd - 27th , 2021**
- AICTE Sponsored six days Short Term Training Programme (STTP) on “**Artificial Intelligence and deep learning techniques**” from 01-02-2021 to 6-02-2021 organised by B.S. Abdur Rahman crescent institute of science and technology,chennai

#### **Award & Achievements**

- Received **Best Senior Faculty award** from DK International Research Foundation (**DKIRF-2018**) on 27<sup>th</sup> May 2018 at DS hotel ,Perambalur.
- Received “**Adarsh Vidya Saraswati rashtriya Puraskar** “ April 2019
- Nominated as a member of “**Editorial board**” in “Glacier Journal Of Scientific Research”
- Appointed as the **reviewer** of “American Journal of Electrical Power and Energy Systems”.
- Received “**Best Teaching Faculty-2019**” From Dr Kalam Educational Trust on 15<sup>th</sup> October -2019 at M.A.M School Of Engineering ,Trichy On the occasion of 87<sup>th</sup> Birth Anniversary celebration of **Dr. A.P.J Abdul Kalam**

**Achievement**-Producing continuously 100% result in Anna University

- 2012- Protection and switchgear
- 2013-high voltage engineering
- 2015-power quality & power system operation and control
- 2016-power system operation and control
- 2017-high voltage engineering and power system operation and control
- 2018- power system operation and control
- 2022- protection and switchgear
- 2025- Energy Management and Auditing

**Additional Responsibility**

- ISO Coordinator
- Talent Enabler
- NBA Criteria 6 head (department)
- Implementer

**Appreciation Received**

- Best Write Up Award during World Standards Day 2025 for EV Charging and Infrastructure Standards: Ensuring Compatibility and Efficiency By Bureau of Indian Standards , New Delhi
- Resource Persons for State Govt. Training Programmes by By Bureau of Indian Standards , New Delhi
- Bureau of Indian Standards Students Chapter Mentor

- Nodal contact Point of Bureau of Indian Standards – Sri Sairam Engineering College
- Winner of Bureau of Indian Standards Meme -2024
- Lead Auditor- EOMS 21001:2018
- Winner of MANAK VEER Award – 2024 on World standards day 2024 By Bureau of Indian Standards Chennai Branch Office
- Evaluator INSPIRE Awards MANAK competition-2022,2023
- Evaluator in SMART INDIA HACKATHON - 2022
- Evaluator in Toycathon -2021
- Instructor- AICTE Cisco Internship
- Mentor-NITTTR Chennai
- Top Mentor- ATAL

### **Invited Talk**

- Siksha 'O' Anusandhan ,Bhubaneswar ,Odisha , India,10th September ,2022 on “ Congestion Management & Social Welfare maximization in Restructured power system”
- Sri Sairam Engineering College, AIDS DEPT ,”Awareness about ONLINE courses” , 15th September, 2022,