Faculty Profile

Basic Information:



NAME	:	**Dr. S. Sarada**
DESIGNATION	:	**Assistant Professor**
DEPARTMENT	:	**EEE**
DATE OF BIRTH	:	**01/03/1984**
DATE OF JOINING	:	**08/12/2007**
EMAIL ID	:	**saradasasi@gmail.com**
EMPLOYEE ID	:	**13**

Academic Profile:

Qualification	Name of the Board/University	YEAR
Ph. D.	J. N. T. University, Anantapur (Autonomous)	2024
M. Tech	S. K. D. University, Anantapur	2010
B. Tech	Vaagdevi Institute of Technology and Science, Proddatur.	2007

Research Details:

1. Areas of Specialization	:	Power Electronics & Drives
2. No. of Publications	:	46
3. Awards Received	:	1) Best Paper Award in 2025 IEEE International Conference in Advances in Power, Signal, and Information Technology (APSIT), at Siksha 'O' Anusandhan University, Bhubaneswar, Odisha. 2) Best Paper Award in 2020 International Conference on Computing, Communication, Electrical and Electronics Engineering (ICCCEEE).
4. Research Guidance		
	No. of PhD Guided:	01
	No. of M. Tech. Guided:	10
	No. of B. Tech. Guided:	30 Batches
5. Details of Professional Membership:		IEI, Associate Member

6. Subjects Taught	:	1. Fundamentals of Electrical & Electronic Engineering 2. Electronic Devices & Circuits 3. Electrical Machines-I 4. Electrical Machines-II 5. Electrical Machines-III 6. Generation of Electrical Power 7. Transmission of Electrical Power 8. Electrical Circuit Theory 9. Principles of Electrical Engineering 10. Linear Control Systems 11. Micro Processors & Micro Controllers 12. Basic Electrical Engineering 13. Reactive Power Control & Management (M. Tech) 14. Energy Conversion Systems (M. Tech)

Publication Details:

Title	Publisher	Published Year
1) An Enhanced Low Switching Frequency Modulation-Based Symmetric Multi-Level Inverter for Harmonic Mitigation.	IEEE	2025
2) FCS-MPC Based Grid-Tied Self-Balanced Switched Capacitor Reduced Switch Nine Level Inverter.	IEEE	2024
3) Single Phase Grid Connected Nine Level Quadruple Boost Inverter with Current Control and Active Damping Capability	IEEE	2024
4) Improving of Voltage Gain Ability by Using Seven Level and Nine Level Switched Capacitor Multilevel Inverters	IEEE	2024
5) Predictive Control of 1-Φ Grid Connected Reduced Switch 7-Level Triple Boost Inverter	International Journal of Innovations in Engineering and Science	2023
6) Comparative Switching and Conduction Loss Analysis of a SVPWM and DPWM based DTC of Open-End Winding Induction Motor Drive.	International Journal of Renewable Energy Research	2022
7) A Model Predictive Control of 1-Φ Grid Connected Reduced Switch 7-Level Inverter	International Journal of Food and Nutritional Sciences	2022
8) Reduction of Common Mode Voltage for 3-Level Inverter Fed DTC of open-end Winding Induction Motor Drive	Test Engineering and Management	2020
9) A Scalar Based SVPWM and DPWM Techniques for 3-Level Inverter fed DTC of Open-End Winding Induction Motor Drive.	Journal of Advanced Research in Dynamical & Control Systems	2019
10) Power quality improvement in PV flyback microinverter using adaptive fuzzy-PR controller	International Journal of Technical Innovation in Modern Engineering & Science	2018

11) Adaptive Fuzzy Proportional Resonant Controller for Photo Voltaic Flyback Micro Inverter with Hybrid Mode	International Journal of Research	2018
12) A RCC MPPT based open-end winding induction motor drive for pumping applications	International Journal of Current Science	2017
13) Brushless DC motor Drive for solar photovoltaic array fed water pumping system by using fuzzy logic controller	International journal of Electrical Engineering	2017
14) An improved efficiency of fuzzy logic control of BLDC motor for solar photo voltaic array fed water pumping system	International Journal of Electrical and Computer Engineering	2017
15) Solar PV array fed water pumping using BLDC motor drive with BOOST-BUCK converter	ICIOTSC-2017	2017
16) Brushless DC motor drive for solar photo voltaic array fed water pumping system by using fuzzy logic controller	ICIOTSC-2017	2017
17) Maximum power tracking Scheme For synchronous wind power Generators	International Journal of Current Science	2016
18) Simulation of Five Level Cascaded Inverter by Using Carrier Based Neutral Voltage Modulation Technique	International Journal of Control Theory and Applications	2016
19) Hybrid filter with CPPM for suppression of common mode voltage and differential mode harmonics in three phase PV inverter	International Journal of Electrical Engineering	2016
20) Suppression of common mode voltage and differential mode harmonics in three phase inverter using hybrid filter	NCRAIPES-2016	2016
21) Real time implementation of multilevel inverter for 3P4W Distribution network using ANFIS control	Indian Journal of Science and Technology	2015
22) Improvement of Power Quality Using Cascaded Voltage and Current Control for Inverter in Microgrids	International Journal of Electrical Engineering	2015
23) Implementation of Network Fault Tolerant VSC-HVDC Transmission System by Using Fuzzy Logic Controller	International Journal of Control Theory and Applications	2015
24) Multilevel Cascaded Inverters Under Unbalanced DC Source with a Carrier- Based Neutral Voltage Modulation Strategy	ICETER	2015
25) Implementation of Network Fault Tolerant VSC-HVDC Transmission System	ICETER	2015
26) Battery Energy Storage System in DFIG Based Wind Energy Conversion System	International Journal of Computer Science and Information Security	2014
27) Low Frequency Oscillation Damped by using D-FACTS Controller	International Journal of Computer Science and Information Security	2014
28) Fuzzy Logic Based Matrix Converter and Unified Power quality Conditioner for Frequency Regulation and Power Quality Improvement	International Journal of Applied Engineering Research	2014
29) Reduction of Voltage Imbalance in Two Feeder Distribution System using IUPQC	International Journal of Engineering Research and Development	2014

30) Damping of Power System Oscillations by using DPFC Controller" presented in International Conference on Innovative in Electrical & Electronics Engineering	ICIEEE	2014
31) Diminution of Voltage Imbalance in a Two-Feeder Distribution System using IUPQC	ICEECSIT	2014
32) Mitigation of Voltage Imbalance in a Two-Feeder Distribution System using IUPQC	ICAESA	2014
33) Grid power leveling of DFIG based Wind Energy Conversion system	NCES14	2014
34) Performance of Matrix Converter Based Unified Power Quality Conditioner using Fuzzy Logic	NCES14	2014
35) Modeling and Analysis of UPFC connected Single Machine System with PSS design using Sliding Mode Control Technique	International Journal of Recent Advance in Engineering and Technology	2013
36) Improving Power Quality by Simultaneous Compensation Voltage and Current in a Multi Bus Multi Feeder System using MC-UPQC	International Journal of Recent Advance in Engineering and Technology	2013
37) Reactive Power Compensation and harmonic elimination by Fuzzy Logic Controlled shunt active Power filter	International Journal of Recent Advance in Engineering and Technology	2013
38) Improving Power Quality by Simultaneous Compensation Voltage and Current in a Multi Bus Multi Feeder System using MC-UPQC	ICGEST	2013
39) Modeling and Analysis of UPFC connected Single Machine System with PSS design using Sliding Mode Control Technique	ICEEE2013	2013
40) Reactive Power Compensation and harmonic elimination by Fuzzy Logic Controlled shunt active Power filter	ICEEE2013	2013
41) Control Scheme of Multi Level Cascaded H-Bridge STATCOM	International Journal of Modern Engineering Research	2012
42) Power Flow Control by using DPFC	International Journal of Modern Engineering Research	2012
43) Grid Interconnection of Renewable Energy Sources at the Distribution Level using Fuzzy Logic Controller"	International Journal of Engineering Research & Technology	2012
44) Control Scheme of Multi level Cascaded H-Bridge STATCOM	NCES12	2012
45) Power Flow Control by using DPFC	NCES12	2012
46) Power-Quality Improvement Features at the Distribution Level with Grid Interconnection of Renewable Energy Sources	NCES12	2012

Patent Details:

Title of Patent	Submitted/Published/Awarded
PATSP-Electric Motor: Predict and Auto Control the Speed, Torque and Power of the Electric Motor	Published