Faculty Profile

Basic Information:



NAME	:	**BAYA REDDY LOMADA**
DESIGNATION	:	**Assistant Professor**
DEPARTMENT:		**EEE**
DATE OF BIRTH	:	**01-06-1986**
DATE OF JOINING	:	**23-06-2014**
EMAIL ID	:	**Reddy.baya@gmail.com**
EMPLOYEE ID:		**: 589**

Academic Profile:

Qualification	Name of the Board/University	YEAR
Ph.D.	JNTU Anantapur	Pursuing
M.Tech	NIT Kurukshetra	2013
B. Tech	JNTU Anantapur	2009

Research Details:

1. Areas of Specialization	:	Power Electronics and Drives
2. No. of Publications	:	12
3. Awards Received	:	
4. Research Guidance		
	No. of PhD Guided:	
	No. of MTech. Guided:	06
	No. of B.Tech. Guided:	15
5. Details of Professional Membership:		NIL
6. Subjects Taught	:	1. Network analysis and synthesis 2. Hybrid electric vehicle 3. Electromagnetic Field Theory 4. Power System Protection 5. Electrical Machines 6. Power Electronics 7. Power semiconductor drives 8. Soft computing Techniques

Publication Details:

Title	Publisher	Published Year
Development and Validation of a Multi-Source Bridge DC–DC Converter for EV Applications	JETIA – *Journal of Engineering and Technology for Industrial Applications*	2025
A Multi-Port Power Converter for Electric Vehicle Applications	IEEE xplore- Conference 13th International Conference on Smart Grid	2025
Design and Evaluation of Bidirectional Dual-Input DC-DC Converter for Integration with Electric Vehicles	IEEE xplore- Conference 2nd International Conference on Cyber Physical Systems, Power Electronics and Electric Vehicles	2024
Design and Implementation of a Hybrid AC-DC Micro Grid for Voltage and Frequency Stabilization by using Advanced Control Techniques	IEEE xplore- Conference 12th International Conference on Smart Grid (ICSmartGrid)	2024
integration of machine learning in batter management systems for lithium-ion cells	UGC Care Journal-Industrial Engineering	2024
IOT Based Blood Bank services for health care application.	UGC Care Journal - Education and Society	2023
Advance Metaheuristic Algorithms for Optimization of Multi objective optimization problem in power system.	UGC Care Journal - Education and Society	2023
Optimized Switch Count Pulse Width Modulated Multilevel inverter	International Journal of Research.	2018
Reduced Swith Count Low Frequency Modulated Multilevel inverter	Journal of Applied Science and Computations	2018
Voltage Control Strategy for Distribution System in a DC Grid Based Wind Energy System	International Journal of Current Science.	2017
Harmonic Resonance Suppression in Industrial Power Systems using Fuzzy Logic Controller	International Journal of current science.	2017
Real time implementation of multilevel inverter for 3P4W Distribution network using ANFIS control	Indian journal of science and technology	2015