Faculty Profile

Basic Information:



NAME	:	**Dr. N. C. Alluraiah**
DESIGNATION	:	**Assistant Professor**
DEPARTMENT:		**EEE**
DATE OF BIRTH	:	**01-06-1985**
DATE OF JOINING	:	**09-05-2023**
EMAIL ID	:	**alluraiah.207@gmail.com**
EMPLOYEE ID:		**:1703**

Academic Profile:

Qualification	Name of the Board/University	YEAR
PhD	VIT University, Vellore, Tamil Nadu.	2024
M.Tech	JNTUA CEA, Ananthapur	2011
B.Tech	AITS, Rajampet	2008

Research Details:

1. Areas of Specialization :		Electrical Engineering
2. No. of Publications :		15
3. Awards Received :		Nil
4. Research Guidance		
	No. of PhD Guided:	Nil
	No. of MTech. Guided:	2
	No. of B.Tech. Guided:	18
5. Details of Professional Membership:		ISTE
6. Subjects Taught :		Electrical Machines I and II Power Systems I and II Basic Electrical Engineering Power System Operation and Control Smart Grid Electrical Circuits

Publication Details:

Title	Publisher	Published Year
Optimal Design of a Hybrid Off-Grid Renewable Energy System Using Techno-Economic and Sensitivity Analysis for a Rural Remote Location	Sustainability	2022
Multi-Objective Optimization Algorithms for a Hybrid AC/DC Microgrid Using RES: A Comprehensive Review	Electronics	2023
Optimization, Design, and Feasibility Analysis of a Grid-Integrated Hybrid AC/DC Microgrid System for Rural Electrification	IEEE Access	2023
Optimization, Design, and Feasibility Analysis of a Grid-Integrated Hybrid AC/DC Microgrid System for Rural Electrification	International Journal of Modelling and Simulation (Taylor and Francis)	2024
Classification and Comparative Evaluation of Text and Emoji- Based Tweets with Deep Neural Network Models	Journal of Electrical and Computer Engineering (Wiley)	2024
Improving load frequency controller tuning with rat swarm optimization and proposing feature detection for enhanced power system stability	Scientific Reports	2024
Techno-economic optimization and sensitivity analysis of off-grid hybrid renewable energy systems: A case study for sustainable energy solutions in rural India	Results In Engineering (Elsevier)	2025
An Overview of Remaining Useful Life Prediction of Battery Using Deep Learning and Ensemble Learning Algorithms on Data-Dependent Models	International Transactions on Electrical Energy Systems (Wiley)	2025
Integrated thermal and battery management for electric vehicles: Experimental validation and simulation-based optimization of lithium-ion batteries	Energy Exploration and Exploitation (Sage)	2025
Comparison of SoC in Ni-MH and Lithium-Ion Battery for E-Vehicle	International Journal of Electrical and Electronics Research (IJEER)	2024
A Novel Breathing Rate Estimation Framework using 3 Distinct Types of Signals	I-PACT (IEEE Conference)	2023
Implementationofneuralnetworkcontrollerforgridconnectedwind-solarPVchargingstation	CSC Press (Taylor and Francis)	2025
OptimizingsolarsystemperformancewithIOTandpredictivemaintenancetechniques	CSC Press (Taylor and Francis)	2025

Techno-Economic Analysis and Optimization of an Off-Grid Hybrid Systems for Sustainable Energy Solutions	CSC Press (Taylor and Francis)	2025

Patent Details:

Title of Patent	Submitted/Published/Awarded
Afforestation through Tree Planting on Birthdays and Other Occasions with Online Geo-Tagged Tracking for Remote Plant Monitoring	Published