Faculty Profile

Basic Information:

NAME	:	**T. PENCHALAIAH**
DESIGNATION	:	**ASSISTANT PROFESSOR**
DEPARTMENT	:	**EEE**
DATE OF BIRTH	:	**02.06.1993**
DATE OF JOINING	:	**06.10.2023**
EMAIL ID	:	**PENCHALAIAH99@GMAIL.COM**
EMPLOYEE ID	:	**1735**

Academic Profile:

Qualification	Name of the Board/University	YEAR
Ph .D	Sri Venkateswara University, Tirupati	Pursuing (Joined in 2022)
M. Tech	Jawaharlal Nehru Technical University, Anantapuramu	2017
B. Tech	Vikrama Simhapuri University, Nellore	2014
Intermediate	Board of Intermediate Education, Andhra Pradesh	2010
SSC	Board of Secondary Education, Andhra Pradesh	2008

Research Details:

1. Areas of Specialization	:	Electrical Power Systems
2. No. of Publications	:	10
3. Awards Received	:	NA
4. Research Guidance		
	No. of PhD Guided:	NA
	No. of MTech. Guided:	NA
	No. of B.Tech. Guided:	8
5. Details of Professional Membership:		ISTE and IAENG

6. Subjects Taught	:	BEEE, ELECTRICAL MACHINES – I, ELECTRICAL CIRCUITS, DIGITAL ELECTRONICS, ELECTRICAL VEHICLES, MICRO PROCESSOR AND MICRO CONTROLLERS, FACTS, NETWOR ANALYSIS.

Publication Details:

Title	Publisher	Published Year
Modified Synchronous Reluctance Motor for Electric Vehicle Application	FOREX	2022
Breast Cancer Detection Using Ensemble Learning Model	SPRINGER	2022
IoT-Based Automatic Forest Fire Extinguisher	SPRINGER	2022
Reduced Switch Count Multilevel Inverters—A Review	SPRINGER	2022
Gas Level Monitoring and Automatic Gas Booking Using IOT-Based Technology for Commercial Applications	SPRINGER	2022
Performance Investigation of Five Level Cascaded Multilevel Inverter-Based Solar PV System with Charge Balance Control	SPRINGER	2022
Enhancing Harmonic Reduction of Grid Connected Wind-Solar PV Charging Station using Neural Network Controller	IEEE	2023
Radial Systems Including DGS Distribution Loss Allocation Using PSO Algorithm	IEEE	2024
Advanced control strategy for grid-connected DFIG systems using TSK-fuzzy controllers	Taylor and Francis group	2025
Dual Fuzzy-Sugeno Controlled Grid-Forming Voltage-Source Inverter for Hybrid Wind-Solar Systems in Weak Grid Integration	IEEE	2025

Patent Details: NA