Faculty Profile

Basic Information:



NAME	:	Dr.O.Hemakesavulu
DESIGNATION	:	Professor
DEPARTMENT	:	Electrical & Electronics Engineering
DATE OF BIRTH	:	06-09-1980
DATE OF JOINING	:	18-02-2005
EMAIL ID	:	ohk@aitsrajampet.ac.in
EMPLOYEE ID	:	15

Academic Profile:

Qualification	Name of the Board/University	YEAR
Ph.D	SRM Institute of Science & Technology, Chennai	2021
M.Tech	JNTU, Hyderabad	2006
B.Tech	JNTU,Hyderabad	2002

Research Details:

1. Areas of Specialization :		Power Electronics & Drives
2. No. of Publications :		51
3. Awards Received :		02
4. Research Guidance		
	No. of PhD Guided:	02 (Pursuing)
	No. of MTech. Guided:	15
	No. of B.Tech. Guided:	42
5. Details of Professional Membership:		Life Member-ISTE, Associate Member-IEI
6. Subjects Taught :		H.V.D.C Transmission, Utilization of Electrical Energy, Power semiconductor Drives, Fundamentals of HVDC & FACTS Devices, Power electronics, Electrical Technology, Power system analysis, Basic Electrical & Electronics Engineering, Industrial electronics, Embedded system Concepts, Embedded Software design

Publication Details:

Title	Publisher	Published Year
Pass-Transistor-Enabled Split Input Voltage Level Shifter for Ultra-Low-Power Applications	MDPI- Micro Machines	2025
An intelligent control approach for resonance damping in a grid-connected inverter system	Sage- The International Journal of Electrical Engineering & Education	2024
Implementation of the Internet of Things for early Floods in Agricultural Land using Dimensionality Reduction Technique and Ensemble ML	Ana Pub- Journal of Machine and Computing	2023
Internet of Things-based smart vehicles design of bio-inspired algorithms using artificial intelligence charging system	De Gruyter Brill- Nonlinear Engineering	2023
IoB: Sensors for Wearable Monitoring and Enhancing Health Care Systems	IEEE Instrumentation & Measurement Magazine	2022
A novel control approach for damping of resonance in a grid interfaced inverter system-fuzzy control approach	Taylor & Francis- International Journal of Ambient Energy	2021
Tumor Classification and Extraction from Mammogram Images Using Convolutional Neural Network	Journal of Advanced Research in Dynamical and Control Systems	2020
A Proportional Resonant Controller for Suppressing Resonance in Grid Tied Multilevel Inverter	MDPI-Energies	2018
Design and analysis of VSC's to weak grids using self-tuned fuzzy logic control	International Journal of Applied Engineering Research	2015

Patent Details:

Title of Patent	Submitted/Published/Awarded
Augmented Reality System for Virtual Workplace Integration	Published
Agriculture Drone for monitoring and spraying pesticide	Published
Method for simultaneous scheduling in multi-machine flexible manufacturing system to minimize make span	Published
Novel Battery Management System for Green Energy Storage	Published
Driver Performance Scoring Smart System and Safety Warning with Accident Proneness Filtering using Machine Learning	Published
Method for Analyzing the Weather Monitoring and Notification System	Published