Faculty Profile

Basic Information:



NAME : **Dr. Pasala Gopi**

DESIGNATION : **Associate Professor**

DEPARTMENT : **EEE**

DATEOFBIRTH : 05.08.1983

DATEOFJOINING : **21.05.2018**

EMAIL ID : **pasala.epe07@gmail.com**

EMPLOYEE ID : **1317**

Academic Profile:

Qualification	Name of the Board/University	YEAR
PG Certificate (AICTE_QIP)	Indian Institute of Information Technology, Design and Manufacturing, Kurnool	Dec-2024
PhD	K L Education Foundation (Deemed to be University)	Aug-2017
PG (M.Tech)	JNT University, Anantapur	2010
UG (B.Tech)	JNT University, Hyderabad	2006
Diploma (EEE)	SBTET, Hyderabad	2002

Research Details:

1.Areas of Specialization	:	Electrical Engineering
2.No.of Publications	:	48
3.Awards Received	:	01 (Best paper)
4.Research Guidance		
	No.of PhD Guided:	Nil
	No.of M.Tech. Guided:	12
	No.of B.Tech. Guided:	25 Batches
5.Details of Professional Membership:		MISTE, InSc,
6.Subjects Taught	:	Electrical Machines, Renewable Energy Systems, Electrical Measurements, Linear System Analysis, Solar and Wind Energy systems, Control systems, Electrical Technology, Basic Electrical and Electronics Engineering, Power systems, Power system Operation and Control.

Publication Details:

Title	Publisher	Published Year
A Probabilistic Temperature-Reliant Model for Optimally Sizing and Siting of Distributed Generators Coordinated with Distribution Network Switching Considering Weather Conditions	IEEE Transactions - IEEE Industry Applications Society (IAS)	2025
Integrated thermal and battery management for electric vehicles: Experimental validation and simulation-based optimization of lithium-ion batteries	Sage Publishers	2025
An Economic Loss Reduction Using Static VAR Compensator and Capacitor Placement in Reconfigurable and Expandable Distribution Grids With a Variable Electric Power Demand	IEEE Transactions - IEEE Industry Applications Society (IAS)	2025
Optimal distributed generator placement for loss reduction using fuzzy and adaptive grey wolf algorithm	Intelektual Pustaka Media Utama (IPMU)	2025
A multiport DC-DC converter with an intelligent controller for micro grid applications	CRC Press	2025
Improving load frequency controller tuning with rat swarm optimization and porpoising feature detection for enhanced power system stability	Nature Portfolio	2024
Performance and robustness analysis of V-Tiger PID controller for automatic voltage regulator	Nature Portfolio	2024
Hybrid Fuzzy PID control with HAEFA Optimization for simultaneous voltage and frequency stabilization in multi-area diverse source power system	Taylor & Francis Group	2024
Robustness and Stability Analysis of Automatic Voltage Regulator Using Disk-Based Stability Analysis	IEEE Power & Energy Society (PES)	2023
Importance of Radiality Constraints Formulation in Reconfiguration Problems	Institute of Electrical and Electronics Engineers (IEEE), USA	2023
Novel approach to stability analysis of DC drive with parameter uncertainty and perturbation in feedback system	Emerald Publishing Limited	2023
Dynamic behavior and Stability analysis of Automatic Voltage Regulator with parameter uncertainty	Wiley (or John Wiley & Sons Ltd.)	2023
Disk margin based robust stability analysis of a DC motor drive	Elsevier	2021
Performance improvement of closed loop optimal cascaded high level multi-level inverter fed Induction motor drive using ANFIS with low THD and effective speed-torque control		2022
Design of μ – controller for quarter electric vehicle with actuator uncertainties	Elsevier	2022
Design of PI Speed Controller for 3-Ph Converter fed DC motor drive using Symmetrical Optimization	Tamkang University Press	2021
A Constant Power Generation of Solar Photo Voltaic Systems using MPPT with Fuzzy Logic Controller	Blue Eyes Intelligence Engineering and Sciences Publication	2019

A PV Module Integrated Converter for Enhanced Performance in Standalone and DC Microgrid Applications	Blue Eyes Intelligence Engineering and Sciences Publication	2019
Application of modern heuristic algorithm to automatic generation control of hybrid electric power system with GRC	Science Publishing Corporation	2016
New Techniques for Tuning of PID Load Frequency Controller of Interconnected Electric Power System	Editura Politechnica	2016
Design of robust load frequency controller for multi-area interconnected power system using SDO software	Editura Politechnica	2016
Water Cycle Algorithm Tuned Cascade Controller for the Frequency Control of a Nonlinear Hydrothermal Power System with PEV Integration	EDP Sciences	2024
Fruit Fly Algorithm Optimized Degree of Freedom Controller for the Dynamical Stability of the Renewable Energy Penetrated Multi Area Power System	EDP Sciences	2024
Flexible Placement of Shunt Capacitors in Distribution Feeders According to Relationship Between Load Type and Its Components	IEEE	2023
A Capacitor Placement Programming Model for Distribution Systems with Voltage-Varying Loads	IEEE	2023
Effect of Environmental Temperature Rise on Optimal Places and Number of Distributed Generators	IEEE	2023
Simultaneous Feeder Reconfiguration and Placement of Shunt Capacitors Taking Into Account Voltage-Dependent Loads	IEEE	2023
A Loss Reduction Formulation for Capacitor Placement in Reconfigurable Distribution Grids with Variable Electricity Consumption	IEEE	2023
A Loss Reduction Formulation for Capacitor Placement in Reconfigurable Distribution Grids with Variable Electricity Consumption	IEEE	2023
Determining Relationship Between Load Type and Its Components in Distribution System Reconfiguration	IEEE	2023
Optimal Placement of DG and Minimization of Power Loss using Naked Mole Rat Algorithm	IEEE	2023
Delicate Remarks in Simultaneous Placement of Distributed Energy Generators and Reactive Power Compensators in Variable Loading Power Systems	IEEE	2023
A New Mathematical Formulation for Simultaneous DG Allocation and Capacitor Placement in Distribution Systems Under Variable Demand	IEEE	2023
Falcon Optimization Algorithm based Regulator for the Study of Automatic Load Frequency Control	IEEE	2022
Integral Double Derivative Plus Filter Controller for Frequency Regulation of Dual Area Power System with HVDC Line	IEEE	2023
Evaluation of Automatic Voltage Regulator's PID Controller coefficients using Python	IEEE	2021
Practical design of an Off-grid Solar PV system for Domestic application	IEEE	2021

Design and Analysis of Fuzzy-Based Hybrid PV-Wind Power Quality Improvement for Local Nonlinear Loads Using MLMS	springer	2022
A wind and solar based ac micro grid with optimized power quality for local non-linear loads	IEEE	2021
A Robust Decentralized Controller Design for Interconnected Power System with Random Load Perturbations using SDO Software	Elsevier	2015
A series fuzzy controller for first swing stability enhancement in multi-machine power system	IEEE	2013
A critical review on AGC strategies in interconnected power system	Institution of Engineering and Technology (IET)	2013
Modelling and optimization of renewable energy integration in buildings	Institution of Engineering and Technology (IET)	2011

Patent Details:

Title of Patent	Submitted/Published/Awarded
System and method to generate electric energy from kinetic energy of moving vehicle using discriminant analysis	Published
Agriculture Drone For Monitoring And Spraying Pesticides	Granted
Real Time Monitoring System in Electric Vehicle using IOT- based Technology	Published
A low cost portable earth detecting safety plug point.	Published