


Profile

Name of the Faculty	S Poorna Chander Rao	
Designation	Assistant Professor	
Department	Electrical And Electronics Engineering	
Area of Interest	Electrical Power Systems	
Subjects Taught	Electrical Machines, Basic Electrical Engineering, HVDC, VE, SGP, Electrical Machines -II, ED, IMT.	
JNTUH Registration Id	71150402-142931	
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Educational Qualifications:

S. No.	Degree	Specialization	University/College	Year
1	Ph. D	Power systems	JNTU Hyderabad	Pursuing
2	M.Tech	EPS	JNTU Hyderabad	2013
3	B.Tech	EEE	JNTU Hyderabad	2007
4	Inter	MPC	BIE	2003
5	SSC	SSC	BSE	2001

Paper Publications:

S. No.	Publication details
1	Next-Gen Safety: A Hybrid DNN-HMM Approach for Automatic Accident Detection, International conference on Data Science and Information systems ICDSIS 2025, MAY 16/17 2025 Published date 10/07/2025
2	An Intelligent Home Energy Management System Using IoT Based on BO-BiLSTM Approach, International conference on Intelligent computing and Knowledge Extraction ICICKE 2025, 6 AND 7 June 2025
3	GSM Based Prepaid Energy Meter, 7th International Conference on Inventive Material Science and Applications. 28-30 May 2025, at Muthayammal Engineering College, Namakkal, India
4	Enhancing Smart City Efficiency by Mitigating Electricity Theft in Smart Grids Using Lightweight DNN and SMO, 2025 3rd International Conference on Integrated Circuits and Communication Systems (ICICACS), 24 April 2025.
5	Protection System for High Voltage Electrical Appliances Against Over and Under Voltage Fluctuations 2024 International Conference on Sustainable Communication Networks and Application (ICSCNA), Published in IEEE : 10 February 2025
6	Hybrid Power Integration on Highways, INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH IN TECHNOLOGY (UGC) April 2024 Volume 10 Issue 11 ISSN: 2349-6002
7	Enhancing Smart City and IoT Solutions with Deep Residual Bi-LSTM model, International Conference on self sustainable Artificial Intelligence systems. IEEE ICSSAS 2023, DATE OF CONFERENCE: 18-20 October 2023
8	Performance Analysis of Artificial Intelligence Controller for PV and Battery Connected UPQC, International Journal of Renewable Energy Research (IJRER), Vol 13, No 1 (2023), March 2023
9	Energy System with Preventive Mechanism for Smart Grid, CR Subscription , Innovation in Electronic Designs, Volume 1 Issue 2;FEB 2023
10	An IoT-Based Sensor Technology for Improving Reliability and Power Quality in Smart Grid Systems, International Journal of Electrical and Electronic Engineering & Telecommunication, ISSN: 2319-2518, July 2023
11	Automatic Power Factor Correction Using Arduino, International Journal of Emerging Technologies and Innovative Research (UGC

	Approved), Vol. 7(6). June 2020
12	Smart Grid Operation Using Hybrid Renewable Sources, International Journal of Research in Electronics and Computer Engineering (UGC Approved), Vol., 7(2) April 2019.
13	Modeling and harmonics analysis of domestic loads and harmonics mitigations techniques, International Journal of Electronics, Electrical and Computational System, Vol., 6 (12), pp. 190-214, Dec., 2017
14	Fast dynamic control behavior of a capacitor supported dynamic voltage restorer, International conference on latest trends in electronics and communication, Jan 2017
15	Power systems protection coordination and associated reliability with smart grid security, International Conference on Computation Methodologies and communication (ICCMC-2017), sept. 2017

Books/Book Chapters Published:

S. No.	Book Publication details
1	Book: Electrical Machines, Lambert Academic Publishing (LAP), ISBN: 978-620-5-49372-4 Editor: czialor 2022
2	Book: The Technology of Electrical Vehicles, RK Publications, Feb 2023, 978-81-962133-7-4 ISBN no. 978-8196213374
3	Book: Solar Power System, RK Publications, Sep 2024, 978-93-48020-80-2
4	Book chapter: Adoption of Solar Powered cold storage and Renewable Energy Solutions in Post Harvest Management for Rurals, Rademics Research Institute. 07/06/2025

Patents Published:

S. No.	Patent Publication details
1	Document classification using Artificial Intelligence. Application No.202241052791 A, Journal no. 38/2022
2	Design and Analysis of Battery super capacitor Hybrid Electrical Energy Storage Systems for Regulation Service, Application 202211058240 A Journal no. 43/2022

3	Implementation of hybrid machine learning models for sensor fault detection and management of battery in electric vehicles, Application no. 202311045255 A Journal no. 31/2023
4	Things Based Anomaly Detection Approach For Accurate Fault Detection On Fire Alarm Systems, Application No.202341065475 A Journal no. 41/2023
5	An IOT and Machine Learning Enabled Smart Solar Powered Pesticide Sprayer for Precision Agriculture, Application No.202541026572 A Journal no. 15/2025

Experience:

Teaching	15 years
Industry	-
Research	-
Total Experience	15