


Profile

Name of the Faculty	PONAGANTI RAJENDAR	
Designation	Assistant Professor	
Department	EEE	
Area of Interest	Control Systems, Electrical Circuits	
Subjects Taught	1. Control Systems. 2. Electrical Circuits 3. Electrical Machines-I 4. Electrical Machines-II 5. Basic Electrical Engineering 6. Advanced Control Systems 7. Renewable Energy Sources 8. HVDC Transmission 9. High Voltage Engineering 11. Digital Signal Processing 12. Modern Control Theory 13. Power Electronic Converters 14. Power Electronic Converters-II 15. Digital Control Systems	
JNTUH Registration Id	16150405-165406	
College Staff Code	SC01776	
Official Mail	prajendar.eee@gcet.edu.in	

Educational Qualifications:

S. No.	Degree	Specialization	University/College	Year
1	M. Tech	Power Electronics	JNTU Hyderabad/ Vidya Vikas Institute of Technology	January 2013
2	B. Tech	Electrical and Electronics Engineering	Osmania University/ Chaitanya Bharathi Institute of Technology	2007
3	Intermediate	M.P.C	S R Junior College for Boys	2003
4	S.S.C	ALL Subjects	Carmel High School	2001

Paper Publications:

S. No.	Publication details
1	Published a paper on "SOLITARY-PHASE AC-DC-AC TROIKA-LEG CONVERTER WITH CONCEN" in The International journal of analytical and experimental modal analysis, Volume XIV, Issue III, March, 2022.
2	Published a paper on "A PV- BESS POWERED QUASI RESONANT CONVERTER WITH ADVANCED MPPT TECHNOLOGY" in The International journal of analytical and experimental modal analysis, Volume XIV, Issue III, March, 2022.
3	Published a paper on "VOLTAGE SAG MITIGATION IN ON-GRID HYBRID POWER SYSTEM USING BATTERY AND SMES BASED MULTI LEVEL DYNAMIC VOLTAGE RESTORER" in Journal of Engineering Sciences, VOLUME 13, ISSUE 3, March, 2022.
4	Published a paper on "CASCADED MULTILEVEL INVERTER BASED POWER AND SIGNAL MULTIPLEX TRANSMISSION FOR ELECTRIC VEHICLES" in Journal of Engineering Sciences, VOLUME 12, ISSUE 9, September, 2021.

5	Published a paper on "TWO STAGE GRID CONNECTED PHOTO VOLTAIC SYSTEM WITH UPQC APPLIED TO MICROGRID" in International Journal of Techo Engineering, VOLUME 12, ISSUE 9, September, 2021.
6	Published a paper on "BLDC Motor Fed by Ann Based MPPT Applied Solar PV Array for Water Pumping System Based On Luo Converter" in International Journal of Research in Electronics and Computer Engineering, VOLUME 9. ISSUE 1, March, 2021
7	Published a paper on "A Single-Phase Isolated Transformer based asymmetrical nine level inverter with reduced number of switches" in International Journal of Research in Electronics and Computer Engineering, VOLUME 9. ISSUE 1, March, 2021
8	Published a paper on "A low-cost monitoring system for maximum power point of a photovoltaic system" in Journal of Information and Computational Science, VOLUME 10. ISSUE 2, February, 2020
9	Published a paper on "A New Cascaded Three Port Converter Topology with Soft Switching and Small Inductor Currents" in International Journal & Magazine of Engineering, Technology, Management and Research, VOLUME 6. ISSUE 7, July, 2019
10	Published a paper on "A New three-port Interleaved Boost Full Bridge Converter Fed Induction Motor Drive" in International Journal of Research, VOLUME 5. ISSUE 23, December, 2018
11	Published a paper on "An Advanced Control for the 3- Phase NPC converter Fed Electric Vehicle Charging Station" in International Journal of Research, VOLUME 5. ISSUE 27, December, 2018
12	Published a paper on "A Simplified PMSM Drive fed MIMO Boost Converter for Electric Vehicles" in International Journal of Research, VOLUME 5. ISSUE 25, December, 2018
13	Published a paper on "A Novel Predictive control based Multi Input Multi Output Switched Capacitor Step-Up Converter" in International Journal of Research, VOLUME 5. ISSUE 24, December, 2018
14	Published a paper on "A Novel Hybrid Energy Source Based Unified Power Quality Conditioner with Effective Coordinate control" in International Journal of Research, VOLUME 5. ISSUE 26, August, 2018
15	Published a paper on "Transformer less PV Inverter Based on Interleaving High Frequency Legs Providing Bidirectional Capability with an Extended Supply of Wind Energy" in International Journal of Research, VOLUME 5. ISSUE 19, August, 2018

16	Published a paper on “A Novel RES Based Half Bridge Series Resonant Inverter with DC-Link NPC Cell” in International Journal of Electronics, Electrical and Computational System, VOLUME 6. ISSUE 12, October, 2017
17	Published a paper on “Fuzzy Based Full-Bridge Bidirectional DC-DC for Photo Voltaic System” in International Journal of Scientific Engineering and Technology Research, VOLUME 5. ISSUE 28, September, 2016
18	Published a paper on “PV with MPPT Based Quasi-Z-Source DCDC Converter with ZVS And ZCS Technique” in International Journal of Scientific Engineering and Technology Research, VOLUME 5. ISSUE 25, September, 2016
19	Published a paper on “A Hybrid PV and Wind Transformer Less Inverter Configuration for Grid Tide Operation with Common DC Bus and AC Bus” in International Journal of Scientific Engineering and Technology Research, VOLUME 5. ISSUE 25, September, 2016
20	Published a paper on “Introduction motor drive using seven level multi-level inverter for energy saving in variable torque load applications” in International Journal of Latest Trends in Engineering and Technology, VOLUME 2. ISSUE 1, January, 2013
21	Published a paper on “Advanced 5L-ANPC Converter Design for PV Applications” in 5 th International Conference on Sustainable Communication Networks and Application ICSCNA 2024

Experience:

Teaching	15 Years
Industry	-
Research	-
Total Experience	15 Years