



DHANEKULA INSTITUTE OF ENGINEERING & TECHNOLOGY

(Autonomous)

GANGURU :: VIJAYAWADA – 521 139.

(Approved by AICTE New Delhi, Permanently Affiliated to JNTU Kakinada)

ISO 9001:2015 Certified Institution, NAAC-A & Accredited by NBA for ECE & CSE.

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FACULTY PROFILE



Name of the Faculty: Mrs G.Jayalaxmi
Designation: Assistant Professor
Email & Phone no : jayalaxmigattem@diet.ac.in &
+91-9949155321

Department: Electrical and Electronics Engineering

Educational Background:

1. **Ph.D** pursuing from **Andhra University**, Visakhapatnam, AP, India
2. **M.TECH** (Power Electronics) from **JNTUK University**, India in the year 2013.
3. **B.TECH** (EEE) with **First Class** from **JNTUK University**, in the year 2010.

Research Areas: Power System, Power electronics application in power System

Teaching Experience: 13 Years

Sl. No	Institute/University	Designation	Period
1	ISTS Women's Engineering college ,RJY	Assistant Professor	2013-2015
2	Vikas college of Engineering and Technology	Assistant Professor	2015-2019
3	Usharama college of engineering and technology)	Assistant Professor	2019-2025
4	DhaneKula Institute of Engineering and Technology	Assistant Professor	2025-tillnow



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Research /Project Work Carried:

- 1. AN INTEGRATED ARTIFICIAL INTELLIGENCE FRAMEWORK FOR SOLAR POWER FORECASTING AND RELIABILITY-ORIENTED PERFORMANCE ASSESSMENT OF SI-SIC IGBT-BASED PHOTOVOLTAIC SYSTEMS** —Ph.D pursuing Project under the Guidance of K.Padma, associate professor IN EEE department, Andhra University.
- 2. MULTI SWITCHING TECHNIQUES OF Z-SOURCE INVERTER BASED PMSM DRIVE** --M.Tech Project under the Guidance of Dr. JVG Rama Rao, Professor, EEE department, BVCE.
- 3. ARDUINO-BASED DRIVERLESS CAR WITH OBSTACLE DETECTION AND AUTONOMOUS NAVIGATION**---B.Tech Project under the Guidance of Mr.G.Vasudha, Associate Professor, EEE department, CEC.

Publications (International Journals):

- 1. G. Jaya Laxmi and J. V. G. Rama Rao, “Multi Switching Techniques of Z-Source Inverter Based PMSM Drive,” International Journal of Engineering Research & Technology (IJERT), Vol. 2, Issue 11, November 2013, Paper ID: IJERTV2IS111032, DOI: 10.17577/IJERTV2IS111032.**
2. Published paper in institute of engineers india(IEI)
- 3. G. Jaya Laxmi and S. Vijaya Laxmi, “Voltage Disturbances Mitigation Using PSO Based DVR Controller in Simplified ‘ABC’ Frame in Distribution Systems,” International Journal of Mechanical and Production Engineering Research and Development (IJMPERD), Vol. 10, Issue 3, June 2020, pp. 3043–3052.**
- 4. G. Jayalaxmi and R. V. S. L. Kumari, “A Study of a Non-Isolated DC-DC Converter Based on High Voltage Gain,” [JoPEPS], Vol. 13, Issue 3, 2023, DOI: 10.37591/v13i3.7601.**
- 5. Jayalaxmi, G., Padma Kottala, and Lakshmi Kumari, R. V. S., “Reliability-oriented performance evaluation of a photovoltaic inverter considering an integrated Si-SiC IGBT,” Engineering Research Express, Vol. 8, Article 155325, 2026. DOI: 10.1088/2631-8695/ae88d8.**

Certification Courses Completed:

- Completed 12 WEEK course on Descriptive statistics with R-programming Completed
- NPTEL 4WEEK COURSE in PYTHON PROGRAMMING FOR DATA Science Completed
- DATASCIENCE Program with R,
- DATASCIENCE program with SAS,
- DATASCIENCE program with Python & TABLEAU programs and certified from Simplilearn Institute
- Ratified as Asst.Professor from JNTUK in the year 2023

Journal Reviewer: Journal of Solar Energy Research, Engineering research express