

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

About Department:

The **Electrical and Electronics Engineering (EEE)** is mother branch of all circuit branches like Electronics and communications, computer science Engineering, Instrumentation Engineering and Information Technology. The Electrical Engineering is one of the main core branches of Engineering, Which mainly covers Generation, Transmission and Distribution of Power. The course is useful to design, manufacturing and production of all Electrical Equipment, Electrical Appliances and it is also useful for the maintenance of Electrical systems in all Industries including steel, Pharmacy, oil & Gas, shipping, ports, cement, paper, Railways, coal mines, fertilizers etc. The Engineers also employable in the allied fields like Electronics based industries like Embedded Systems, VLSI etc, design and development of electrical equipment and study of various non-conventional energy resources. EE Engineers deal with the invention, design, development and commercial applications of electrical and electronics systems, components and devices.

Opportunities

Telecom industries, transportation network, IT industries, airplane & airspace manufacturing industries, and production and the distribution of power are some of the specific fields of career development. An electrical & electronics engineer can work with the industries deals in product development, control system, system management, product design, sales, consumer's electronics, transportation, wireless communication, manufacturing, chemical, automotive, defense and space research organizations.

Vision & Mission

Vision:

To become a Center of Excellence and source of cutting-edge technologies in Electrical and Electronics Engineering and allied fields

Mission:

M1: To enhance career and inculcate spirit of research attitude, foster entrepreneurship through emerging technologies and industry-institute interaction

M2: To impart high quality technical education with problem solving capabilities by innovative pedagogy in emerging technologies.

M3: To imbibe ethical values and leadership skills among student community.

POs, PEOs & PSOs

Program Outcomes :

PO1. ENGINEERING KNOWLEDGE: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2. PROBLEM ANALYSIS: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3. DESIGN/DEVELOPMENT OF SOLUTIONS: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO4. CONDUCT INVESTIGATIONS OF COMPLEX PROBLEMS: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5. MODERN TOOL USAGE: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO6. THE ENGINEER AND SOCIETY: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO7. ENVIRONMENT AND SUSTAINABILITY: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8. ETHICS: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9. INDIVIDUAL AND TEAM WORK: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10. COMMUNICATION: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO11. PROJECT MANAGEMENT AND FINANCE: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO12. LIFE-LONG LEARNING: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Program Educational Objectives :

PEO1: To pursue career in the field of Electrical Engineering and allied fields.

PEO2: To pursue higher education and demonstrate skills in research, and emerge as entrepreneur.

PEO3: Exhibit leadership qualities, social and ethical values in the profession.

Program Specific Outcomes :

PSO 1: Expertise in providing solutions for the problems of power systems and allied fields.

PSO 2: Demonstrate sound knowledge, in sustainable energy and smart grid systems.



Department Profile

Electrical & Electronics engineering arena stands tall at the front facet of the newest technology. Moving beyond wires and circuits, the discipline now is taking giant strides as it Expanding into cutting-edge technologies. Electrical & Electronics Engineering department was established in the year 2009 offering B.Tech. Program in Electrical and Electronics Engineering (EEE) with an intake of 60 in B.Tech.

Our department has the fine blend of dynamic and experienced faculty who provide quality education at UG levels. The department has dedicated faculties with a total of 19 teaching and non – teaching staffs. The faculty members are highly qualified and experienced in their areas of specialization. The department has well – qualified faculties who have publications in the reputed National and International Journals.

The department houses well equipped laboratories, while the short-term training programs, seminars, workshops, guest lectures by experts and student fests create better learning scope for students. The department also conducts career development programs, Seminars, Quiz, Industrial Visits, Paper Contests, Group Discussions, Guest Lectures, Career Guidance sessions and games to enhance interpersonal and intrapersonal skills of students.

Courses Offered

SNO	COURSE	DURATION	SPECIALIZATION
1	Diploma	3 years	Diploma in Electrical and Electronics Engineering
2	B.Tech	4 years	Electrical and Electronics Engineering
3.	M.Tech	2 years	Electrical Power Systems

About EEE HOD:

Dr RAKESH TEERDALA

Assoc.Prof & HOD







Dr. RAKESH TEERDALA is an Assoc.Professor and Head of the Electrical & Electronics Engineering Department. He obtained PhD in Power Systems from Jawaharlal Nehru Technological University-Hyderabad in 2018. He received M.Tech in Electrical Power Systems from Jawaharlal Nehru Technological University-Hyderabad in 2011, B.Tech degree in Electrical & Electronics Engineering from ADAMS Engineering College, Paloncha in 2003.

He has a teaching experience of 13 years. He started his career in Abdul Kalam Institute of Technological Sciences 2010 as Assistant Professor. He worked as Asst. Professor in Mallareddy Engineering College for Women, Medchel, worked as Teaching Assistant in JNTUH Hyderabad. Presently he is working as Assoc.Professor and Head in EEE Department at KLR CET.






His research includes FACTS controllers, power electronics applications to power systems, optimization techniques and power system operation & control. He has published 2 Indian Patent Publications, 2 Text Books, and 27 National/International Journals & Conferences. He has extensive experience in power systems. He supervised and mentored undergraduate and post graduate students.


LIST OF FACULTY EEE:

S.NO	Name of the Faculty	Designation	Qualification	Experience	
1	Dr Rakesh Teerdala	Assoc.Prof & HOD	Ph.D	14	
2	Dr P Rajendhar	Assoc.Prof	Ph.D	12	
3	K Gopala Krishna	Asst.Prof	M.Tech	17	
4	Y Heman	Asst.Prof	M.Tech	12	

5	V Naresh	Asst.Prof	M.Tech	12	
6	D V Rama Narsaiah	Asst.Prof	M.Tech	12	
7	M Pavan Kumar	Asst.Prof	M.Tech	06	
8	K Sindhura	Asst.Prof	M.Tech	03	

9	B Keerthi	Asst.Prof	M.Tech	08	
10	B Neelima	Asst.Prof	M.Tech	08	
11	P Akhila	Asst.Prof	M.Tech	08	
12	K Vijay Kumar	Asst.Prof	M.Tech	05	

13	K PREM KUMAR	Asst.Prof	M.Tech	05	
14	M SUMANTH	Asst.Prof	M.Tech	05	
15	M AMRUTH RAJ	Asst.Prof	M.Tech	05	
16	SK SAIDA PASHA	Asst.Prof	M.Tech	05	
17	CH UDAY	Asst.Prof	M.Tech	08	

18	N NARESH	Asst.Prof	M.Tech	05	
19	MD AYESH FIRDOUS	Asst.Prof	M.Tech	05	