

PROGRAM OUTCOME:

- **PO 1: ENGINEERING KNOWLEDGE:** Apply the knowledge of mathematics, science, engineering fundamentals, and an Engineering specialization to the solution of complex engineering problems.
- **PO 2: PROBLEM ANALYSIS:** Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- **PO 3: 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.
- **PO 4: 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.
- **PO 5: MODERN TOOL USAGE:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering Activities with an understanding of the limitations.
- **PO 6: 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.
- **PO 7: 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.
- **PO 8: ETHICS:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- **PO 9: INDIVIDUAL AND TEAMWORK:** Function effectively as an individual, and as a member or leader in diverse teams, and in multi-disciplinary settings.
- **PO 10: 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.
- **PO 11: 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 multi-disciplinary environments.
- **PO 12: 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.

PROGRAMME SPECIFIC OUTCOMES (PSO's) OF EE DEPARTMENT:

PSO 1: Foundation of Engineering:

Though the Program is designed for Electrical Technology but to become an excellent engineer Communication skill, Knowledge of mathematics, basic science and basic engineering is essentially needed. Hence the outcome is designed apply this basic engineering knowledge to design and conduct experiments, as well as to analyze and interpret data.

Ability to design and realize preliminary and basic electrical and other basic engineering components and systems to meet desired needs within realistic constraints such as economical, environmental, social, political, ethical, health and safety, manufacturability and sustainability.

.PSO 2: In depth understanding of fundamental electrical systems:

Students would be made to capable to understand the fundamentals, analyze, and develop with visionary zeal in the conventional electrical Engineering arena. The outcome is so designed that students shall have complete knowledge of Control, operations and design of Electrical Machines, Electrical Circuitry, analysis of Power System with generation, transmission and distribution of power, Switch gears and protection and control system for efficient development of electrical based systems of varying complexity.

PSO 3: Conception of recent trends:

Students are to be made proficient of understanding an assortment of advanced applications of electrical technology and control of electrical systems to make the energy efficient utilization of electrical energy. Not only limited to this but also have the sense of energy crisis to realize the need of harnessing of energy from alternative and renewable energy resources.

PSO 4: Invite innovation:

Adaptation shall be embedded among the students that one has the ability to employ modern electrical power equipments, environments, and hardware and software platforms in cultivating innovative ideas which leads to the pathway to be an entrepreneur, a professional and a zest for higher studies.