PEOs, PSOs and POs

Programme Educational Objectives (PEO)

Electrical Engineering graduates will be

PEO1: Able to utilize the acquired knowledge for analyzing and resolving practical Electrical Engineering problems.

PEO2: Imbibed with the aptitude for solving industry problems with the help of modern tools and design.

PEO3: Equipped to involve in research, higher studies and to become entrepreneur that caters to the need of industry and society.

PEO4: Acquire social and environmental ethics to work in an organisation.

Program Specific Outcomes (PSOs)

Electrical Engineering graduates will have the:

PSO1: Comprehensive knowledge of electrical systems, components and processes to address technical and engineering challenges in real life.

PSO2: Aptitude to provide technical solutions to complex electrical engineering problem with the application of modern and appropriate tools for sustainable development

PSO3: Acquire wisdom of social and environmental awareness along with ethical responsibility to have a successful career with passion and zeal for real-world applications using optimal resources as an Entrepreneur.

Program Outcomes (POs)

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 need for sustainable development.

PO8 **Ethics:** Apply ethical principles and commit to professional ethics, 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. Some of them are, 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 **Lifelong Learning:** Recognize the need for, and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change.