

## **Vision, Mission, PEO'S, PO's, PSO's**

### **Vision**

To prepare individuals to thrive in and contribute to an ever changing global society by uniting the skills of engineering, technology, research and design.

### **Mission**

- M1. To provide state of the art resources that contributes to achieve excellence in teaching-learning, research and development activities
- M2. To produce qualified, motivated and well-rounded graduates possessing fundamental knowledge of Electrical & Electronics Engineering who can provide solutions and services to the community at large
- M3. To create and sustain environment of learning in which students acquire knowledge and learn to apply it professionally with due consideration of ethical and economical issues
- M4. To promote research & innovation and to keep abreast of emerging technologies in Electrical & Electronics Engineering in order to serve the needs of industry, scientific community and society

### **Program Education Objectives (PEOs)**

- PEO1: To prepare students with good foundation in mathematics, science and engineering fundamentals required to comprehend, analyze, formulate solutions for real life engineering problems and facilitate them to pursue higher studies and /or to find entry level position in industries.
- PEO2: To inculcate effective communication skills, leadership, team work, multidisciplinary approach, and an ability to provide engineering solutions in a broader societal context.
- PEO3: To provide academic environment with an awareness of excellence, ethical codes and guidelines, and the life-long learning needed for a successful professional career.

### **Program Specific Outcomes**

- PSO-1: Apply appropriate techniques ,hardware and software tools to design ,analyze and test various systems in power electronics and power systems engineering adaptable to multi disciplinary environments.
- PSO-2:Identify the optimal solutions for industrial and societal electrical energy requirements by applying suitable design and control strategies.

## **Program Outcomes (POs)**

PO-1(Engineering Knowledge): Apply 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 specified needs with appropriate consideration for public health and safety, cultural, societal and environmental considerations.

PO-4(Conduct investigations of complex problems):Using research-based knowledge and research methods including design of experiments, analysis and interpretation of data and synthesis of 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 modeling to complex engineering activities with an understanding of the limitations.

PO-6(The Engineer and Society): Apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice.

PO-7(Environment and Sustainability): Understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate knowledge of and need for sustainable development.

PO-8(Ethics): Apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice.

PO-9(Individual and Team Work): 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 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.

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.