

Program Educational Objectives (PEOs)

PEO1: Our graduates will apply their knowledge and skills to succeed in an electronics and communication engineering career and/or obtain an advanced degree.

PEO2: Our graduates will apply basic principles and practices of computing grounded in mathematics and science to successfully complete hardware and/or software related engineering projects to meet customers' business objectives and/or productively engage in research.

PEO3: Our graduates will function ethically, responsively and will remain informed about all the developments of their profession.

PEO4: Our graduates will successfully function in multi-disciplinary teams.

PEO5: Our graduates will be able to perform competently in a diversified environment and individually, within a global, societal, and environmental context with ethical and moral behaviour.

Program Specific Outcomes (PSOs)

PSO1. Should be able to understand the concepts of Electronics & Communication Engineering and their semiconductor technology, consumer electronics, embedded system, communication/networking.

PSO2. Should have an ability to apply technical knowledge and usage of modern hardware & software tools related to communication engineering for solving real world problems.

PSO3. Should have the capability to analyse, comprehend, design & develop electronic subsystems / system applications and thus demonstrating professional ethics & concern for societal well-being.

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, review research literature, and analyse 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 modelling 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.