

**Program Outcome:**

**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 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 Specific Outcome:**

1. Advanced Skills Development: "Students will develop advanced technical skills through hands-on projects and practical experience in designing and managing communication systems."
2. Career Readiness: "Students will enhance their employability by gaining industry-relevant knowledge and skills, preparing them for successful placement in diverse communication technology roles."
3. Adaptability to Emerging Trends: "Students will cultivate the ability to stay current with emerging technologies, such as 5G and IoT, ensuring they can adapt and lead in the evolving landscape of communication technology."

**Program Educational Outcome:**

## PEO1

1. Foundation Building: "Students will build a strong foundation in advanced communication technologies through rigorous coursework and practical training, equipping them with essential skills and knowledge for professional growth."
2. Professional and Leadership Development: "Graduates will evolve into industry leaders and innovators by applying their expertise to real-world challenges, pursuing continuous learning, and demonstrating leadership in advanced communication technology fields."