Program Outcomes (POs)

The **Program Outcomes (POs)** of the Department are:

At the end of the program, the graduates of B.Tech in Electronics and Communication Engineering/ Electronics and Tele-Communication Engineering will be able to -

PO 1   **Engineering knowledge:** Apply knowledge of mathematics, science, and Electronics and Communications Engineering for solving engineering problems and modeling.

PO 2   **Problem analysis:** Design and conduct experiments as well as to analyze and interpret experimental or collected data, simulate and fabricate electronic circuits and systems and make own projects utilizing latest software tools and techniques. They also possess the ability to identify, formulate, research literature and analyze complex engineering problems to reach logical conclusions.

PO 3   **Design / development of solutions:** Design a system, component or process to meet the desired specifications, performance and capabilities; compatible with health, safety, legal, societal and environmental considerations.

PO 4   **Conduct investigations of complex problems:** Use research based knowledge and research methods including design of experiments in analyzing and interpreting data, and synthesizes the data to come to valid conclusion.

PO 5   **Modern tool usage:** Apply appropriate techniques, resources and modern attitudes, IT tools (linking hardware and software) including prediction and modeling to complex engineering activities and research.

PO 6   **Engineer and Society:** Understand the special duty they owe to protect the public's health, safety and welfare by virtue of their professional status as engineers in society.

PO 7   **Environment and sustainability:** Understand and correctly interpret the impact of engineering solutions in global, societal and environmental contexts and demonstrate the knowledge of a need for sustainable development.

PO 8   **Ethics:** Understand ethics of life and professions and abide by them.

PO 9   **Individual and Team-work:** Articulate teamwork principles, work with a multi-disciplinary team, and appreciate the role of a leader, leadership principles, and attitudes conducive to effective professional practice of Electronics and Communication Engineering.

PO 10   **Communication:** Communicate and present effectively both orally and in writing, 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 finance and management principles as a member and leader in a team to manage projects in multi-disciplinary environments.

PO 12   **Life-long learning:** Engage in life-long learning, demonstrate knowledge and understanding of contemporary and emerging issues relevant to their domain - demonstrate knowledge and understanding of business practices and principles of management and understand their limitations, develop awareness of legal consequences of engineering solution.