1.

**PROGRAM OUTCOMES** are Graduate Attributes

1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex electronics and communication engineering problems.
2. **Problem analysis:** Identify, formulate, research literature, and analyze complex electronics and communication engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. **Design/development of solutions:** Design solutions for complex electronics and communication 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.
4. **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.
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.
6. **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 electronics and communication engineering practice.
7. **Environment and sustainability:** Understand the impact of the professional electronics and communication engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the electronics and communication engineering practice.
9. **Individual and team work**: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **Communication**: Communicate effectively on complex electronics and communication 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.
11. **Project management and finance**: Demonstrate knowledge and understanding of the electronics and communication 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.
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.

**2.**

**Programme Educational Objectives (PEO’s)**

1. To provide students with the fundamentals of Engineering Sciences with more emphasis in electronics and communicationengineering by way of analyzing and exploiting engineering challenges.
2. To train students with good scientific and engineering knowledge so as to comprehend, analyze, design, and create novel products and solutions for the real life problems.
3. To inculcate professional and ethical attitude, effective communication skills, teamwork skills, multidisciplinary approach, entrepreneurial thinking and an ability to relate engineering issues with social issues.
4. To provide students with an academic environment aware of excellence, leadership, written ethical codes and guidelines, and the self motivated life-long learning needed for a successful professional career.
5. To prepare students to excel in Industry and Higher education by Educating Students along with High moral values and Knowledge

**3. VISION OF ELECTRONICS & COMMUNICATION DEPARTMENT**

*To contribute to the society through excellence in scientific and technical education, teaching and research aptitude in Electronics and Communication Engineering to meet the needs of Global Industry.*

**4. MISSION OF ELECTRONICS & COMMUNICATION DEPARTMENT**

***M1:*** *To equip the students with strong foundation of basic sciences and domain knowledge of ECE, so that they are able to creatively their knowledge to the solution of problems arising in their career path.*

***M2:*** *To induce the habit of lifelong learning to continuously enhance overall performance*.

***M3:*** *Students are able to communicate their ideas clearly and concisely so that they can work in team as well as an individual.*

***M4:*** *To make the students responsive towards the ethical, social, environmental and in economic context for the society.*

5. **About ECE Departments**

The Departments of Electronics & Communication Engineering and Electrical Engineering are the major departments involving number of laboratories with a diversified variety of equipment being the core branches and with laboratories focusing on fundamental aspects of Electronics & Communication Engineering. In order to cope up with the requirement of industries, the departments also have laboratories with latest technologies. Students have an open access in the laboratories, to understand as well as apply their knowledge to explore their engineering skills. The departments have team of highly motivated and dedicated faculty members to the cause of academics and striving to do the best in the interest of the college and the students. Most of the faculty members are actively involved in research work and regularly publishing their research papers in Journals and Conferences.

6. **Content for HOD Desk.**

The Department of Electronics and Communication Engineering came into existence at the Jaipur Engineering College & Research Center in 2000, by the approval of All India Council for Technical Education (AICTE), to meet the growing requirement of practical design engineers in the country and abroad. The greatest asset of the department is its highly motivated and learned faculty. The available diversity of expertise of the faculty with the support of the other technical staff prepares the students to work in the global multicultural environment. The department not only aims to make our students technically sound and knowledgeable but also to nurture their wisdom and make them a better and responsible human being. The graduates of the Electronics & Communication Stream have been selected by some of the world’s leading corporations & as well as by most of the leading Indian counterparts. We hope that we will continue to deliver our best to serve the society and mankind. It is also expected that our students will continue to pass on the skills which they have developed during their stay at this department to the whole of the world for a better society.