Electronics & Communication Engineering

JIS College of Engineering

Vision

To excel in Electronics & Communication Engineering in order to meet the challenges of modern Industrial society through quality technical education, research, innovation and teamwork

Mission

- To educate students from the foundations to the state of art knowledge in the development of electronic devices and communication systems with design optimizations and to carry out research through constant interaction with research organizations and industry.

- To nourish the mind of growing engineers through qualitative evaluations, internal assessments, corporate trainings, efficient technical communication skills and creative project assignments.

- To motivate the engineers of the future through competition in communication skill, seminar presentation, project, and group discussion.

- To encourage the intended engineers in kind, humble and moral behavior with ignition in mind to contribute for the welfare of society.

Programme Educational Objectives

01

Preparation: To prepare the students to excel in various educational programmes and to succeed in industry/ technical profession through further education/ training such as seminars, workshops, conferences etc;

02

Core Competence: To provide the students with a solid foundation in mathematical, scientific and Electronics and communication engineering fundamentals required to solve Electronics and communication engineering related problems;

03

Breadth: To train the students with a breadth of scientific and Electronics and communication engineering knowledge to comprehend, analyse, design & create novel products and solutions for real life problems;

04

Professionalism: To inculcate in the students professional/ ethical attitude, effective team work skills, multidisciplinary approach and to relate Electronics and communication engineering issues to a broader context;

05

Learning Environment: To provide the students with academic environment of excellence, leadership, ethical guidelines and to encourage with achievement awards for productive career.

Programme Outcomes

- **Engineering knowledge:** Effective application of knowledge of mathematics, science and technical subjects;

- **Problem analysis:** Identification, formulation and solving of problems using engineering knowledge or simulation;

- **Design / Development of solutions:** Design solution of engineering subsystems, systems and/or processes to meet specific needs;

- **Conduct Investigations of Complex Problems:** Planning, design, analysis and interpretation of scientific, technical and economic data collected;

- **Modern Tool Usage:** Use of techniques/tools including software in all disciplines, as may be required;

- **The Engineer and Society:** Fulfillment of professional, social and ethical responsibilities;

- **Environment and Sustainability:** Good perception of the impact of solutions provided for developmental issues in a global/societal context;

- **Ethics:** Good attitudes and skills in personnel management and maintenance of human relations, required in every ones working life;

- **Individual and Team Work:** Capacity to function in multi/inter-disciplinary teams with a spirit of tolerance, patience and understanding so necessary for team work;

- **Communication:** Effective communication skills and leadership/participation in team work;

- **Project Management and Finance:** Better understanding and acceptance of professional, social, moral and ethical responsibilities and good knowledge of contemporary issues;

- **Life-long Learning:** Planning, development and implementation of strategies for life-long learning.