

## **Vision of the institute:**

To become a globally recognized centre of excellence for science, technology & engineering education, committed to quality teaching, learning and research which will promote leadership, job creation, social commitment and service to nation building.

## **Mission of the institute**

- To create and disseminate knowledge in recent technologies and drive economic development.
- To provide world-class environment for faculty and students to prepare them for addressing the engineering challenges and opportunities.
- Aims to transform the learners into efficient engineers and facilitate socially responsive research, innovation and entrepreneurship.

**DEAN**

**PRINCIPAL**

## DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

### VISION OF THE DEPARTMENT

- To provide quality education, research and development with human values to mould globally competent and qualified computer science and engineering professionals with creative skills.

### MISSION OF THE DEPARTMENT

Mission No.	Mission Statements
M1	Provide the quality education through value added course, theory and practical session for developing creative and innovative problem solving skills.
M2	Promote learners in entrepreneurship activities, placement and higher studies.
M3	To inculcate ethical and professional values and encourage moral values of social commitment among students.

### 1.1 State the Program Educational Objectives(PEOs) (5)

PEO NO.	Program Educational Objective Statements
PEO1	To communicate effectively and function collaboratively in teams to become successful professionals in industry, government and academic research.
PEO2	To develop and ability to analyze the requirements of the software, understand the technical specifications, design and provide the solutions for a product design.
PEO3	To prepare the students for a successful career and work with values and social concern.

### PROGRAM SPECIFIC OUTCOMES

**PSO1:** To develop innovative, creative skills for the design and development of software product solutions using the advanced technologies like AI, DS, ML, Bigdata & Block chain that meet the requirements of the society.

**PSO2:** Gain knowledge in diverse area of Computer Science & Engineering and cultivate skills for successful career, entrepreneurship and higher studies.

## **PROGRAM OUTCOMES(POs)**

Engineering Graduates will be able to:

- 1. Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- 2. 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.
- 3. 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.
- 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 engineering practice.
- 7. 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.
- 8. Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the 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 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 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.

