

### PROGRAM EDUCATIONAL OBJECTIVES (PEO)

- PEO 01 The graduate of CSE will have a strong foundation in mathematical, scientific and engineering fundamentals necessary to formulate, solve and analyze engineering problem in their career.
- PEO 02 The graduate of CSE will have the ability to analyse the requirements, understand the technical specification and design the much engineering solutions by applying computer science theory and principles.
- PEO 03 The graduates of CSE will have exposure to work as teams on emerging cutting edge technologies with effective communication skills and leadership qualities.
- PEO 04 The graduates of CSE will have successful career by engaging in lifelong learning.
- PEO 05 The graduates of CSE will have skills to work collaboratively on multidisciplinary projects and exhibits high levels of professional and ethics values.

### PROGRAM OUTCOMES

- PO 01 **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex Computer Science & Engineering problems
- PO 02 **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..
- PO 03 **Design/development of solutions:** Design solutions for complex Computer Science & 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
- PO 04 **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
- PO 05 **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex Computer Science & Engineering activities with an understanding of the limitations.
- PO 06 **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.
- PO 07 **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.
- PO 08 **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- PO 09 **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- PO 10 **Communication:** Communicate effectively on complex Computer Science & 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.
- PO 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.
- PO 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 changes in the field of Computer Science.

### PROGRAM SPECIFIC OUTCOMES (PSO)

- PSO 01 Ability to exhibit analytical & logical skills and apply knowledge of Maths and Computer Science to design, develop, test and maintenance of software solutions
- PSO 02 Ability to identify, formulate and resolve real life/social problems by using current computer technology.