**PROGRAM OUTCOMES (POs)**

***Engineering Graduates will be able to:***

1. **Engineering Knowledge: -** Apply the knowledge of Mathematics, Science, Engineering Fundamentals and Engineering specialization for the solution of complex engineering problems.
2. **Problem Analysis:-** Identify, Formulates, review research literature, and analyze complex engineering problems, by reaching substantiated conclusions using first principles of Mathematics, Natural Sciences, and Engineering Sciences considerations.
3. **Design/ Development of Solutions :-** Design solutions for complex Engineering Problems and Design systems components or processes that meet the specified needs with appropriate consideration for the public health, safety, 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 usages:-** 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 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 to make effective presentation and give

and receive clear instructions.

1. **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.
2. **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.

PROGRAM SPECIFIC OUTCOMES (PSOs)

**PSO1:** Our graduates would be able to work in power plants and manufacturing industry in the sphere of operation and maintenance.

**PSO2:** Our graduates would be able to apply creative thinking to design mechanical equipment and processes including development of domain specific software tools.

**PSO3:** Our graduates would be able to apply the basic principles of engineering in various practical fields to engage themselves in many national level research projects.