

Program Outcomes

B. E Graduate should possess the following program outcomes.

- PO1:Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex Civil Engineering problems.
- PO2:Problem analysis:** Identify, formulate, review research literature and analyze complex civil engineering problems reaching substantiated conclusion using first principles of mathematics and engineering sciences.
- PO3:Design/development of solutions:** The ability to analyze complexities of various Civil Engineering elements and design similar such elements.
- PO4:Investigation of Problem:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data and synthesis of the information related to Civil Engineering problems to provide valid conclusions.
- PO5:Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex Civil Engineering activities with an understanding of the limitations.
- PO6:The engineer and society:** Apply reasoning based on the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the Civil Engineering professional practice.
- PO7:Environment and sustainability:** Understand the impact of the Civil Engineering solutions in societal and environmental contexts and demonstrate the knowledge of need for sustainable development.
- PO8:Ethics:** Apply ethical principles, commit to professional ethics, own up responsibilities and abide by the norms of the Civil Engineering practice.
- PO9:Individual and team work:** As a civil engineer function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10: Communication: Communicate effectively on complex Civil 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.

PO11: Project management and finance: Demonstrate knowledge and understanding of the Civil Engineering and management principles and apply these to one's work, as a member and leader in a team, to manage projects and in multidisciplinary environments as a civil engineer.

PO12: Lifelong learning: Recognize the need for, willingness to prepare for and to exhibit pro-activeness to engage in independent and lifelong learning in the broadest context of technological change with respect to Civil Engineering field.