

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

- **PEO1:** Our graduates will apply their knowledge and skills to succeed in a Civil engineering career and/or obtain an advanced degree.
- **PEO2:** Our graduates will apply basic principles of engineering in various practical fields to meet customer business objectives and/or productively engage in research.
- **PEO3:** Our students will be able to apply creative thinking to design Civil engineering equipment's and processes including interdisciplinary technologies.
- **PEO4:** Our graduates will function ethically and responsibly and will remain informed and involved fully in their profession and in society.
- **PEO5:** Our students will be able to communicate well with others to share the ideas and to cooperate, thus establishing the leadership to manage the organization effectively.

PROGRAM SPECIFIC OUTCOMES (PSOs)

PSO1. Professional Design & Construction Engineering Skill: Skill to apply the latest Design procedures for civil engineering structures by developing and applying the latest software. Construction being the heart of the infrastructural development, latest construction procedures is to be adopted using latest equipment and machineries.

PSO2. Innovative Skill: An ability to explore new ideas in the field of Civil Engineering with the help of Development of high-quality technical knowledge through application of software and field observed data.

PSO3. Civil Engineering Entrepreneurships: Scope of Civil and Construction Engineering Entrepreneurships are huge and attractive. Students of having right attitude of being entrepreneurs are encouraged and they can avail Institutional incubation cells and MSME inspiration.

Program Outcomes

PO1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems in Civil and Construction Engineering.

PO2. Problem analysis: Identify, formulate, review research literature, and analyze complex Structural engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3. Design/development of solutions: Design solutions for complex Civil and Structural Engineering problems and design of various structural components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO4. Conduct investigations of complex problems: Use research-based knowledge and research methods related to Civil Engineering including laboratory experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5. Engineering tool usage: Create, select, and apply appropriate techniques, resources, and modern Civil, Structural and construction Engineering and related IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

PO6. The engineer and World: 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

PO7. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO8. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO9. 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

PO10. 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.

PO11. 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.