

Civil Engineering

Programme Outcomes (Pos)

The graduates of Civil Engineering Programme will be able to:

PO1.Engineering knowledge: Apply knowledge of mathematics, science, engineering fundamentals and an engineering specialization in the field of Civil Engineering.

PO2.Problem analysis: Identify, formulate, analyze and solve complex problems in construction industries using principles of mathematics, natural sciences and engineering sciences.

PO3.Design/development of solutions: Design a solution for complex civil engineering problems and design system processes to meet specific needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations.

PO4.Conduct investigations of complex problems: Conduct investigations of complex problems including design of experiments, analysis and interpretation of data, and synthesis of information to provide valid conclusion.

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

PO6.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.

PO7.Environment and sustainability: Understanding the impact of engineering solutions in social environment and demonstrate the knowledge for sustainable expansion.

PO8.Ethics: Apply ethical principles and commit to professional ethics and the norms of engineering practices.

PO9.Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams and in multidisciplinary settings.

PO10.Communication: Communicate with engineers and society to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions related to civil engineering professionals.

PO11.Project management and finance: Demonstrate and apply the knowledge of engineering and management principles to one's own work, as a team leader or a member to manage project in multidisciplinary environments.

PO12.Life-long learning: Recognize the need for, and have the ability to engage in independent and life-long learning in the context of technological change.

Programme Specific Outcomes (PSOs)

PSO1.Design process: Design the fundamental elements of civil engineering systems, system components and processes considering safety, quality and cost consideration.

PSO2.Quality and standards: Able to plan and prepare design and construction documents such as specifications, contracts, engineering drawings and construction schedules

PO, PSO Attainment (Batch: 2014 – 2018)

