

PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Programme Outcome (PO) designation number	PO Type	Engineering graduates will be able to
CE/PO1	Engineering Knowledge	Apply knowledge of science, mathematics, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.
CE/PO2	Problem Analysis	Identify, formulate, research literature and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences
CE/PO3	Design and development of solutions	Design solutions for complex engineering problems and design system components or processes that meet specified needs and appropriate considerations for public health and safety, cultural, societal and environmental considerations.
CE/PO4	Conduct investigations of complex problems.	Use research based knowledge and research methods including design of experiments, analysis and interpretation of data and synthesis of information to provide valid conclusions.
CE/PO5	Modern tool usage	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.
CE/PO6	The Engineer and Society	Apply reasoning informed by contextual knowledge to assess, societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice.
CE/PO7	Environment and Sustainability	Understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate knowledge of and need for sustainable development.
CE/PO8	Ethics	Apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice.

CE/PO9	Individual and team work	Function effectively as an individual, and as a member or as a leader in diverse teams and in multi-disciplinary settings.
CE/PO10	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 documentations and make effective presentations, and give and receive clear instructions.
CE/PO11	Project Management and Finance.	Demonstrate knowledge and understanding of engineering and management principles and apply these to one's own work, as a member and a leader in a team, to manage projects and in multidisciplinary environment
CE/PO12	Life Long Learning	Recognize the need for and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change.

Programme Specific Outcomes

Programme Specific Outcome (PSO) designation number	PSO Type	Engineering graduates will be able to
PSO 01	Augmenting subject domain specific skill for field practice	Understand and apply the latest engineering solutions related to both design and analysis problems pertaining to any of the specializations in civil engineering like structural, geotechnical, transportation, environmental, surveying etc and also to incorporate interdisciplinary associations.
PSO 02	Orientation Towards Higher Learning / Research	Recognize aspiration and ability to set goals to pursue higher academic objectives identify newer domains of academic or industrial learning requirements/research and involve in the small investigations either individually or in group.
PSO 03	Promotion of Entrepreneurship	Apply knowledge and understanding of engineering principles to initiate entrepreneurship ventures/startup initiatives.