



SRI VENKATESWARA COLLEGE OF ENGINEERING & TECHNOLOGY

ISO 9001:2015 Certified

(Approved by AICTE, New Delhi, Affiliated to JNTUGV, Vizianagaram)

Office : +91 9705576693, email: principal_svcet@yahoo.com, website: www.svcet.info

Department of Civil Engineering B.TECH PROGRAM OUTCOMES

PO 1	ENGINEERING KNOWLEDGE: Apply the knowledge of mathematics, science, engineering fundamentals, and Civil Engineering principles to the solution of complex problems in Civil Engineering.
PO 2	PROBLEM ANALYSIS: Identify, formulate, research literature, and analyze complex Civil Engineering problems reaching substantiated conclusions using first principles of mathematics and engineering sciences.
PO 3	DESIGN/DEVELOPMENT OF SOLUTIONS: Design solutions for complex Civil Engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
PO 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 related to Civil Engineering problems.
PO 5	MODERN TOOL USAGE: Create, select, and apply appropriate techniques, resources, and modern engineering tools such as CAD, FEM and GIS including prediction and modelling to complex Civil Engineering activities with an understanding of the limitations.
PO 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 Civil Engineering practice.
PO 7	ENVIRONMENT AND SUSTAINABILITY: Understand the impact of the professional Civil Engineering solutions in societal and environmental contexts, demonstrate the knowledge of, and need for sustainable development.
PO 8	ETHICS: Apply ethical principles and commit to professional ethics and responsibilities; and norms of the Civil Engineering practice.
PO 9	INDIVIDUAL AND TEAM WORK: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO 10	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.
PO 11	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 Civil Engineering projects and in multidisciplinary environments.
PO 12	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.



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B.TECH PROGRAM SPECIFIC OUTCOMES

PSO 1	Communicate and present civil engineering projects effectively.
PSO 2	Use the techniques, Skills and modern engineering tools necessary for civil engineering practice and project management.
PSO 3	Provide sustainable solutions to civil engineering problems
PSO 4	Perform as design consultants in construction industry for the design of civil engineering structures.