



School of Engineering
Department of Civil Engineering
(M. Tech -Construction Engineering and Management)

Department Vision:

To emerge as a pioneering department for Civil Engineering education, research and innovation, fostering sustainable engineering practices and empowering students with advanced technical, digital and managerial competencies to serve the region, nation and world.

Department Mission:

Mission 1: To impart high-quality education through contemporary curricula, advanced technologies, experiential learning and interdisciplinary approaches, fostering critical thinking, professional competence and ethical leadership.

Mission 2: To promote research, innovation, consultancy and entrepreneurship for developing sustainable, resilient and technology-driven solutions to complex civil engineering, construction and infrastructure challenges.

Mission 3: To engage with industry and the regional community through inclusive education, knowledge sharing and responsible engineering practices, contributing to sustainable socio-economic, environmental and societal development.

Program Educational Objectives (PEOs):

PEO1: Graduates will apply advanced technical, digital and managerial competencies in construction engineering and management for the planning, execution, monitoring and optimisation of construction projects using sustainable practices and modern technologies.

PEO2: Graduates will demonstrate research capability, innovation, critical thinking and professional leadership to address complex challenges in construction materials, project delivery, quality, safety, digital construction and infrastructure development.

PEO3: Graduates will pursue lifelong learning, ethical professional practice and interdisciplinary collaboration, contributing to industry, academia, consultancy and entrepreneurship while supporting sustainable socio-economic and environmental development.

Program Outcomes (POs):

PO	Statement
PO1:	Research and Development: Demonstrate the ability to independently carry out research, investigation and development work to solve complex practical problems in construction engineering and management.
PO2:	Technical Documentation: Demonstrate the ability to prepare, write and present substantial technical reports, research documents and professional communications related to construction engineering and management.
PO3:	Advanced Specialization Knowledge: Demonstrate advanced knowledge and mastery in construction engineering and management beyond the level of an appropriate bachelor's programme and apply it to complex construction and infrastructure problems.
PO4:	Construction Management and Decision-Making: Apply advanced engineering and management principles to plan, schedule, execute, monitor and control construction projects, and make effective decisions considering cost, quality, safety, contracts and resource constraints.
PO5:	Advanced Engineering and Digital Tool Usage: Select and apply advanced engineering, digital and analytical tools, including BIM, Primavera, data analytics, modelling and simulation techniques, for effective construction planning, monitoring and project control.
PO6:	Professional Leadership, Entrepreneurship and Lifelong Learning: Demonstrate professional leadership, entrepreneurial capabilities, ethical responsibility, interdisciplinary collaboration and lifelong learning to address emerging construction challenges and contribute to sustainable societal development.

Programme Specific Outcomes (PSOs):

PSO1: Apply advanced principles of construction engineering and management involving materials, planning, scheduling, contracts, quality, safety and project control for effective planning, execution, monitoring and optimisation of construction projects.

PSO2: Utilise modern digital technologies and analytical tools such as BIM, AI, automation, robotics, data analytics, computing and statistical techniques for intelligent decision-making and smart construction management.

PSO3: Develop research-oriented, sustainable and innovative solutions to complex construction engineering problems through interdisciplinary knowledge, advanced management practices and emerging technologies.


Head of Department
Head of the Department
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