



DEPARTMENT OF CIVIL ENGINEERING

Year/Class/Semester:BE./CIVIL/VII

Course Code	Course Name	CO's
CEC801	Construction Management	<p><i>Student will be able to</i></p> <p>CO1: Explain & apply the knowledge of management functions like planning, scheduling, Executing & controlling the construction projects.</p> <p>CO2: Prepare feasible project schedule by using various scheduling techniques.</p> <p>CO3: Gain knowledge of managing various resources & recommend best method of allocating resources to the project</p> <p>CO4: Develop optimum relationship between time & cost for construction project</p> <p>CO5: Implement quality & safety measures on construction sites during execution of Civil Engineering projects.</p> <p>CO6: Describe the importance of labour acts.</p>
CEDLO8 012	Design of Hydraulic Structures	<p><i>Student will be able to</i></p> <p>CO1: Explain the Reservoir planning, storage capacity, Sedimentation & Reservoir losses.</p> <p>CO2: Carry out the stability analysis of Gravity & Earth Dam.</p> <p>CO3: Explain the causes of failure of various dams & their design criteria.</p> <p>CO4: Design an ogee spillway.</p> <p>CO5: Suggest suitable energy dissipation measures.</p> <p>CO6: Describe the various minor irrigation structures such as Weirs & barrages, Canal Regulators and Cross-drainage works.</p>
CEDLO8 013	Construction Safety	<p><i>Student will be able to</i></p> <p>CO1: Apply safety mechanisms and concepts for improving overall safety of construction sites</p> <p>CO2: Demonstrate the various safety requirements</p> <p>CO3: Explain the various techniques to prevent accidents.</p> <p>CO4: Examine construction safety management.</p> <p>CO5: Implement safety policies, methods and training on construction sites.</p>



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		CO6: Practice safety in construction operations.
CEDLO8 021	Repairs, Rehabilitation and Retrofitting of Structures	<i>Student will be able to</i> CO1: Describe the concept of repair and its need. CO2: Classify various causes of deterioration of concrete structure and Distresses monitoring techniques. CO3: Classify various materials of repairs and their properties. CO4: Explain various methods of repairs of concrete structure. CO5: Describe various methods of repairs of steel structure. CO6: Explain seismic retrofitting and maintenance of heritage structures.
CEDLO8 023	Transportation System Engineering	<i>Student will be able to</i> CO1: Compare different modes of transportation and describe National Urban Transport Policies. CO2: Plan and design different elements of Airports, movements of aircrafts and helicopters. CO3: Plan and design geometric elements of railway system and explain the elements of modern trains. CO4: Explain different components of water transport. CO5: Plan different public transport system, routing, scheduling and estimating transit capacity of the system. CO6: Explain different elements of bridge and analyse various hydrological elements of bridge.
CECILO C 8011	Project Management	<i>Student will be able to</i> CO1: Apply selection criteria and select an appropriate project from different options. CO2: Write work break down structure for a project and develop a schedule based on it. CO3: Identify opportunities and threats to the project and decide an approach to deal with them strategically. CO4: Use Earned value technique and determine & predict status of the project. CO5: Capture lessons learned during project phases and document them for future reference