

DEPARTMENT OF CIVIL ENGINEERING

Year/Class/Semester:B.E./CIVIL/VIII

Course Code	CourseName	COs
CEC701	Design and Drawing of Reinforced Concrete Structures	 Student will be ableto CO1.Design G+3 RCC framed building using IS code recommendations. CO2.Design different types of retaining walls with detailing of reinforcement CO3.Design different types of water tanks with detailing of reinforcement. CO4.Apply the basic concepts of structural dynamics CO5.Evaluate the response of structure during an earthquake and calculate design forces.
CEC702	Quantity Survey estimation and Valuation	 CO6.Explain principles of Pre-stressed Concrete and its losses. Student will be able to CO1.Apply the measurement systems to various civil engineering items of work CO2. Draft the specifications for various items of work & determine unit rates of items of works. CO3. Estimate approximate cost of the structures by using various methods &prepare detailed estimates of various civil engineering structures by referring drawings CO4.Assessthe quantities of earthwork &construct mass haul diagrams CO5.Draft tender notice & demonstrate the significance of the tender as well as contract process. CO6.Determine the present fair value of any constructed building at
CEDLO 70123	Applied Hydrology and Flood Control	 stated time Student will be able to CO1. Explain hydrologic cycle and various methods of Measurement of rainfall. CO 2. Calculate optimum number of rain gauge stations for average rainfall and missing rainfall over catchment CO 3. Describe various methods of measurement of stream flow and to calculate abstraction losses over the catchment CO 4. Develop rainfall runoff relationship and calculating runoff over catchment CO 5. Perform hydrologic and hydraulic routing



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		CO6. Calculate the discharge of well for confined and unconfined		
		aquifer		
		Student will be able to		
		CO1. Acquire the knowledge of functional elements of solid waste management.		
		CO 2. Illustrate solid waste collection system, route optimization		
		techniques, transfer station and processing of solid waste.		
	Solid and Hazardous Waste Management	CO 3. Develop the ability to plan waste minimization and processing		
		of solid waste.		
		CO 4. Explain approaches to treat the solid waste in the most effective		
CEDLO		manner for sustainable development.		
7022		CO 5. Discuss safe methods of handling, management and disposal of		
		hazardous waste.		
		CO 6. Summarize waste management techniques used for assorted		
		solid waste		
		Student will be able to		
	Appraisal & Implementation of Infrastructure Projects	CO1. Classify the projects and describe the phases involved in project formulation.		
		CO 2. Prepare a detailed project report on the basis of various		
		feasibility studies and SWOT analysis.		
		CO 3. Devise a project's development cycle and get acquainted with		
CEDLO70 13		the different appraisals in the process of deciding the worthiness		
		of a project.		
		CO 4. Exhibit and apply the managerial skills and knowledge of		
		financial aspects required during the implementation of projects.		
		CO 5. Identify various sources for project finance.		
		CO 6. Know the various agencies involved in project implementation		
		as well as select the method of project implementation which is best		
		suited for a particular project.		



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CEDLO70 21	Foundation	Student will be able to		
		CO1. Analyze vertical stress condition in soils.		
		CO 2. Design a suitable foundation system.		
		CO 3. Evaluate the safe allowable bearing capacity of shallow		
		foundation and load carrying capacity of pile foundation under		
		different soil conditions.		
		CO 4. Explain concept of floating foundation.		
		CO 5. Design different types of sheet piles.		
		CO 6. Explain basic principles of machines foundation.		
	Disaster Management and Mitigation Measures	Student will be able to		
		CO1.Get to know natural as well as manmade disaster and their extent		
		and possible effects on the economy.		
		CO 2. Plan of national importance structures based upon the previous		
		history		
CECIL OC7017		CO 3. Get acquainted with government policies, acts and various		
		organizational structure associated with an emergency.		
		CO 4.Get to know the simple do's and don'ts in such extreme events		
		and act accordingly.		
		CO5.Understand application of GIS in the field of disaster		
		management.		
		CO6.Understand the emergency government response structures		
		before, during and after disaster.		