







DEPARTMENT OF CIVIL ENGINEERING

COURSE OUTCOMES

II year I Sem NECR23

Subject Code	Subject	Course Outcomes	Blooms
			Level
23CE2001	Surveying	Apply the principle and methods of surveying and	BL-2
		measuring of horizontal and vertical- distances and angles	
		Identify the source of errors and rectification methods	BL-3
		Apply surveying principles to determine areas and	BL-2
		volumes	<i>DL 2</i>
		Setting out curves and using modern surveying	BL-3
		equipments	
		Apply the basics of Photogrammetry Surveying in field	BL-4
	Strength of Materials	Understand the basic materials behavior under the	BL-2
		influence of different external loading conditions and	
		the support conditions.	
		Draw the diagrams indicating the variation of the key	BL-3
		performance features like axial forces, bending moment	
		and shear forces in structural members.	
		Acquire knowledge of bending concepts and	BL-2
23CE2002		calculation of section modulus and for determination of	
		stresses developed in the beams	BL-3
		Analyze the deflections due to various loading	DL-3
		conditions.	
		Assess stresses across section of the thin, thick	BL-4
		cylinders and columns to arrive at optimum sections to	
		withstand the internal pressure using Lame's equation	
23CE2003	Fluid Mechanics	Understand the principles of fluid statics, kinematics	BL-2
		and dynamics	DI 2
		Apply the laws of fluid statics and concepts of	BL-3
		buoyancy Understand the fundamentals of fluid kinematics and	BL-2
		differentiate types of fluid flows.	DL-2
		Apply the Principle of conservation of energy for flow	BL-3
		measurement.	
		Analyze the losses in pipes and discharge through pipe	BL-4
		network.	
	Environmental Science	Identify various natural resources & its impact on life	BL-3
		of human beings	
		Understand about biodiversity & its conservation	BL-2
		Apply control measures of urban and industrial wastes	BL-3
		Identify the Prevention and Control measures of Pollution	BL-3
		Understand about Environment and human health	BL-2
		Charleting good Environment and namen neutil	









DEPARTMENT OF CIVIL ENGINEERING II year II Sem NECR23

Subject Code	Subject	Course Outcomes	Blooms Level
23CE2004	Engineering Geology	Understand the significance of geological agents on Earth surface and its significance in Civil Engineering.	BL-2
		Identify and understand the properties of Minerals and Rocks	BL-3
		Understand the concepts of Groundwater and its geophysical methods.	BL-2
		Classify and measure the Earthquake prone areas, Landslides and subsidence to practice the hazard zonation.	BL-2
		Investigate the project site for mega/mini civil engineering projects and site selection for mega engineering projects like Dams, Reservoirs and Tunnels.	BL-4
23CE2005	Concrete Technology	Familiarize the basic ingredients of concrete and their role in the production of concrete and its behavior in the field.	BL-2
		Test the fresh concrete properties and the hardened concrete properties. Understand the basic concepts of concrete. Design the concrete mix by BIS method.	BL-2
		Evaluate the ingredients of concrete through lab test results. realize the importance of quality of concrete	BL-5
		Understand the behavior of concrete in various environments.	BL-2
		Familiarize the basic concepts of special concrete and their production and applications.	BL-2
	Structural Analysis	Apply energy theorems to analyze trusses	BL-3
23CE2006		Analyze indeterminate structures by using Castigliano's–II theorem	BL-4
		Analyze of fixed and continuous beams	BL-4
		Analyze continuous beams and portal frames by using slope-deflection method	BL-4
		Analyze continuous beams and portal frames by using Moment–distribution method	BL-4
23CE2007	Hydraulics And Hydraulic Machinery	Understand the characteristics of laminar and turbulent flows.	BL-2
		Apply the knowledge of fluid mechanics to address the uniform flow problems in open channels.	BL-3
		Solve non-uniform flow problems and hydraulic jump phenomenon in open channel flows.	BL-3
		Evaluate the performance of impact of jets on plates and design Pelton wheel, Francis and Kaplan turbine.	BL-5
		Understand the principles, losses and its efficiencies of centrifugal pumps.	BL-2