



Civil Engineering

Course Outcomes

Course Name:-	Dams and Hydraulic Structure
Course Code:-	401007
At the end of course, students will be able to-	
CO1:-	explain information regarding dams as general.
CO2:-	analyse data ,design gravity and earthen dam and check its stability
CO3:-	Design hydraulic structure i.e spillway, gates , energy dissipater, canal, cross drainage work, diversion head work
CO4:-	understand hydropower engineering i.e. components and its function
CO5:-	Learn river training, methods and construction of guide bund
Course Name:-	Quantity Surveying, Contracts and Tenders
Course Code:-	401008
At the end of course, students will be able to-	
CO1:-	Able to describe types of estimates and importance of approximate estimate
CO2:-	Able prepare detailed estimate for Civil Engg Structures
CO3:-	Able to draft suitable specifications to meet expectations of client and prepare the rate analysis
CO4:-	Able to choose suitable method of valuation of property and implement it
CO5:-	Able to explain execution of works in PWD and tendering
CO6:-	Able to illustrate meaning, validity, the conditions and laws of contract
Course Name:-	Construction Management
Course Code:-	401010
At the end of course, students will be able to-	
CO1:-	Able to explain the basics construction management
CO2:-	Able to implement construction scheduling and illustrate work study and its measurement
CO3:-	Able to describe labour laws and financial aspects of construction projects
CO4:-	Able to identify and analyse the risks involved in projects and perform value analysis
CO5:-	Able to explain material and human resource management in construction
CO6:-	Able to explain basic terminologies and applications of artificial intelligence in civil engineering
Course Name:-	Air pollution and Control
Course Code:-	401 009
At the end of course, students will be able to-	
CO1:-	Able to understand metereological aspects of atmosphere also parameters for plume rise in atmosphere for as per CPCB norma
CO2:-	Able to analyse the air sample also can monitor ambient air quality as per CPCB & NAAQS standards
CO3:-	Able to expalin cause of indoor air pollution and different methods of controlling and measuring odour pollution
CO4:-	Able to explain working principle and design of different equipments used to control air pollution
CO5:-	Understands the different rules and legislations laid in Air pollution Act 1981, The Environment Act
CO6:-	Ability to understand Environmental impact assessment and management
Course Name:-	Project Work
Course Code:-	401006
At the end of course, students will be able to-	
CO1:-	Convert an open ended problem statement into a statement of proposed work

CO2:-	Decompose problem/task into subtasks and establish a methodology and process by which progress may be evaluated
CO3:-	Select and apply appropriate methods/models, or mathematical simulations of the real world and analyzes the data to provide information for decisions
CO4:-	Perform feasibility analysis and evaluates quality of solutions to select the best one
CO5:-	Produce usable documents of record regarding the design process
CO6:-	Collaborate with team members to achieve a common goal
CO7:-	Enhance awareness and critical self-examination of one's own values, and to appreciate the relevance of personal values in the business/workplace and develop skills which recognizes and resolves ethical issues while working

