Jayawant Shikshan Prasarak Mandal's
JSPM Narhe Technical Campus
Rajarshi Shahu School of Engineering and Research

Civil Engineering

Course Outcomes

Course Name:-	Architectural Planning and Design of Buildings
Course Code:-	**201005**
At the end of course, students will be able to-	
CO1:-	relate various amenities and services including safety and land use zoning with respect to town planning
CO2:-	describe the various legal aspects and documentation for township from commencement to completion of project
CO3:-	apply the principles of architectural planning and design considering features of green building
CO4:-	recognize safety aspects and components of earthquake resistant structure
CO5:-	describe different building services and applying knowledge to actual situation
CO6:-	draw the architectural drawings by applying building rules and byelaws
CO7:-	compile ideas and plan residential buildings
CO8:-	compile ideas and plan public buildings
Course Name:-	Structural Analysis I
Course Code:-	**201008**
At the end of course, students will be able to-	
CO1:-	Understand the basic concept of static and kinematic indeterminacy, slope and deflection of determinate and indeterminate beams for analysis of structures
CO2:-	Analyze indeterminate beams structures and frames
CO3:-	Evaluate determinate and indeterminate trusses and its application in the field
CO4:-	Apply influence line diagrams for the analysis of structures under moving load
CO5:-	Analyze two and three hinged arches and its application
CO6:-	Apply plastic analysis for indeterminate steel structures by limits state method
Course Name:-	Engineering Geology
Course Code:-	**207009**
At the end of course, students will be able to-	
CO1:-	identify the different types of minerals and rocks found on the earth's surface and their modes of formation
CO2:-	identify various structural features out in the field and explain the theories postulated behind the formation of folded mountains
CO3:-	explain the historical aspect of geology and the Way Rivers and oceans modify the geomorphology of an area
CO4:-	explain various types of surveys, role of remote sensing and GIS in civil engineering
CO5:-	judge the feasibility of a site as suitable for building dams, reservoirs and tunnels
CO6:-	explain the effects of various natural disasters such as volcanoes, earthquakes and landslides while working in the field as a civil engineer and judge the feasibility of a stone as a good building stone
Course Name:-	Concrete Technology
Course Code:-	**201007**
At the end of course, students will be able to-	
CO1:-	describe the general perspective ingredients of concrete
CO2:-	explain fresh and hardened properties of concrete
CO3:-	describe tests of hardened concrete and special types of concrete
CO4:-	explain special concreting techniques , equipment and application of Ferrocement in
CO5:-	design concrete mix of various concrete grades
CO6:-	describe the behavior and repair of concrete structures under adverse conditions
Course Name:-	Fluid Mechanics I

	Course Code:-	**201004**
At the end of course, students will be able to-		
CO1:-	describe properties of Fluids and perform the dimensional analysis	
CO2:-	interpret and solve fluid static problems	
CO3:-	understand and apply the knowledge of fluid kinematics	
CO4:-	identify, analyze and apply the principles of fluid dynamics	
CO5:-	illustrate formation of boundary layer	
CO6:-	analyze the pipe flow network using concept of pipe flow	
Course Name:-	Soft Skills	
	Course Code:-	**201010**
At the end of course, students will be able to-		
CO1:-	identify their own goals, strengths and weaknesses and thus their opportunities	
CO2:-	Speak confidently with the correct pronunciation and accurate language, listen to the speaker with utmost attention, write a structured report of the project at hand & write applications and effective resumes	
CO3:-	dress up professionally for any occasion to make a lasting impression	
CO4:-	demonstrate the art of speaking effectively and make others speak, get others involved, work together and reach the conclusion to the problem at hand faster	
CO5:-	work effectively as an associate and not a BOSS!	
CO6:-	be a professional even under stress	

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