SWARNANDHRA COLLEGE OF ENGINEERING & TECHNOLOGY AUTONOMOUS CIVIL ENGINEERING DEPARTMENT <u>VII SEM COURSE OUTCOMES (R16)</u>

SUBJECT	COURSE OUT COMES
NAME	
	CO1 . Plan layout of diversion head works.
Water Resources	CO2. Identify site selection for reservoirs and dams.
	CO3. Explain different forces acting on gravity dams.
Engineering - II	CO4 . Carryout stability analysis of earth dams.
	CO5 . Apply design principles of ogee spillways and energy dissipation works.
	CO6. Use design principles of canal structures like falls, regulators etc.
	CO1. Describe the basic principles of Remote Sensing and GIS techniques.
Remote Sensing	CO2. Identify familiar with ground, air and satellite based sensor platforms.
And Gis	CO3. Interpret the aerial photographs and satellite imageries.
	CO4 . List and create input spatial data for GIS application.
Applications	CO5 . Recognize the application of RS and GIS in Civil engineering.
	CO6 . Classify RS and GIS concepts in Geomorphology, Forest, water resources engineering, Flood zone delineation mapping.
	CO1 . Demonstrate the quantity calculations of different components of the buildings.
Estimation,	CO2 . Explain the rate analysis of different quantities of the buildings components.
Specifications &	CO3. Determine the quantities of different works of roads and canals.
	CO4. Discuss and Learn various specifications and conditions of contractors.
Contracts	CO5 . Compute and should be capable of finalizing the value of structures.
	CO6 . Estimate in a position to find the cost of various building components.
	CO1. Define the sewerage systems.
Environmental	CO2 . Determine characterization of Sewage.
	CO3 . Develop appropriate appurtenances in the sewerage systems.
Engineering	CO4. Design suitable treatment flow for sewage treatment.
	CO5 . identify the critical point of pollution in a river for a specific amount of pollutant disposal into the river.
	CO6. Observe Bio-solids (Sludge) management practices.

SWARNANDHRA COLLEGE OF ENGINEERING & TECHNOLOGY AUTONOMOUS CIVIL ENGINEERING DEPARTMENT

V SEM COURSE OUTCOMES (R19)

SUBJECT	COURSE OUT COMES
NAME	
	CO1 .Determine support reactions, normal thrust and radial shear for three hinged and two hinged arches.
Structural	CO2. Apply moment distribution method to continuous beams and portal frames.
Analysis-Ii	CO3.Solve continuous beams and portal frames using kani's method.
	CO4.Use lateral load analysis to building frames.
	CO5. Analyze cable structures and suspension bridges.
Design And	CO1.Work on different types of design philosophies
Drawing Of	CO2.Carryout analysis and design of flexural members and detailing
Reinforced	CO3.Design structures subjected to shear, bond and torsion, design for serviceability.
Concrete	CO4.Design different type of compression members and footings.
Structures	CO5.Design of different types of slabs and detailing.
	CO1 .Discuss the theories and principles governing the hydrologic processes.
Water Resources	CO2.Estimate flood magnitude and carry out flood routing.
Engineering	CO3.Describe the design of diversion head works.
	CO4 .Generalize planning of reservoirs and stability of the dams.
	CO5.Develop irrigation canals and canal network.
	CO1 .Develop different methods of index properties of the soils and classify the soils.
Geotechnical	CO2.Compute different engineering properties of the soil such as compaction, permeability, consolidation and shear
Geotechnical	strength and determine them in the laboratory.
Engineering	CO3.Relate stress distribution in soils in day-to-day civil engineering practice.
	CO4.Estimate compressibility of soils
	CO5.Develop stress-strain behavior of different sands.
	CO1 .Plan highway network for a given area.
Transportation	CO2. Determine Highway alignment and design highway geometrics.
Engineering	CO3. Illustrate Intersections and prepare traffic management plans.
	CO4. Judge suitability of pavement materials
	CO5 . Design of flexible and rigid pavements and their maintenance.

SWARNANDHRA COLLEGE OF ENGINEERING & TECHNOLOGY AUTONOMOUS CIVIL ENGINEERING DEPARTMENT <u>III SEM COURSE OUTCOMES (R20)</u>

SUBJECT	COURSE OUT COMES
NAME	COURSE OUT COMES
	CO1. Make use of the concepts of probability and their applications
	CO2. Apply discrete and continuous probability distributions
Statistical Methods	CO3. Use the components of a classical hypotheses test
	CO4. Examine significance tests based on small and large sampling test
	CO5. Use correlation methods and principle of least squares.
	CO1. Describe the importance of managerial economics and its utility in decision making.
	CO2.Generalize the meaning and usefulness of the production function and cost function in analyzing the firm's
Managerial	production activity.
Economics And	CO3. Comprehend the concept of Market structure, different types of Markets and pricing policies.
Financial Analysis	CO4. Identify different forms of business organization and analyze their merits and demerits.
	CO5. Evaluate the investment proposals through techniques of capital budgeting and financial performance of the
	company through Financial Statements.
	COLUNderstand the basic materials behaviour under the influence of different external loading conditions and the support
Strength Of	conditions.
	co2. Know bending concepts and calculation of section modulus and for determination of stresses developed in the beams
	and deflections due to various loading conditions. $CO3$ Agood strength or section of the thin and thick calinders
Materials	COA Calculate stresses in different engineering applications like shafts springs columns and struts subjected to different
	loading conditions
	CO5 Find Principal stresses developed in a member when it is subjected to stresses along different axes and design the
	sections.
	CO1. Understand the basic principles involved in linear and angular measurements.
	CO2 .Identify to use various surveying instruments for Measure distances and bearings.
	CO3.Understand the concepts of levelling and location of contour.
Surveying And	CO4. Measure horizontal and vertical angles using theodolite, Determine the distance and elevations of an object using
Geomatics	tacheometric principles.
	CO5.Compute various data required for various methods of surveying for setting out of curves, Understand modern surveying
	methods, Calculate the area and volume of required boundaries.
	CO1 .Understand and apply concepts of fluid statics, kinematics and dynamics for solving various fluid flow problems.
Fluid Mechanics &	CO2. Analyze various losses in pipe flow problems and understand the measurement of flow.
Hydraulic	CO3.Understand the concept of hydrodynamic force of jets on stationary and moving flat, inclined and curved vanes.
Machines	CO4 .Explain the working and performance of various types of pumps and their characteristics.
	CO5 .Know the working of various types of turbines and their characteristics.