DEPARTMENT OF CIVIL ENGINEERING

COURSE OUTCOMES

COURSE TITLE : STRUCTURAL ANALYSIS – II
COURSE CODE : 7CE01
At the end of the subject the students will be able –

	COURSE OUTCOMES
CO 1	To decide what is required to be analyzed depending upon type of structural element
CO 2	To know about degree of freedom, Condition of equilibrium and determinacy of element.
CO 3	To understand reason for failure and permissible limits for safety.
CO 4	To apply the knowledge of beam analysis for practical analysis and design purpose.
CO 5	To make application of various analysis methods for actual structural member analysis and design.

COURSE TITLE : GEOTECHNICAL ENGINEERING – II
COURSE CODE : 7CE02
At the end of the subject the students will be able –

	COURSE OUTCOMES
CO 1	To select the appropriate soil investigation method and get true sub soil parameters used for selection of type of foundation.
CO 2	To determine the bearing capacity of shallow foundation.
CO 3	To calculate the lateral earth pressure on retaining wall
CO 4	To find bearing capacity of well foundation and design of pile foundation.
CO 5	To evaluate the settlement of different types of foundation.

CO 6	To suggest the suitable method o ground improvement

COURSE TITLE : HYDRAULICS ENGINEERING
COURSE CODE : 7 CE03
Student shall be able to

	COURSE OUTCOMES
CO 1	Illustrate the flow pattern in the open channels, criteria for formation hydraulics jump.
CO 2	Identify different types of GVF profiles and methods.
CO 3	Compute of water hammer pressures in pipe.
CO 4	Design penstocks and surge tanks, understand causes of water hammer.

COURSE TITLE : ENVIRONMENTAL ENGINEERING – II
COURSE CODE: - 7CE04
Student shall be able to

	COURSE OUTCOMES
CO 1	Define and explain the significance of terms and parameters frequently used in wastewater Treatment.
CO 2	Evaluate the influence of the different parameter in design and treatment of wastewater treatment plant (wastewater characteristics).
CO 3	Basic methodology for wastewater treatment (screening, grit chambers, sedimentation, biological treatment and chemical treatment)
CO 4	Appreciate the advantages, disadvantages and limitations of the technologies and new developments.
CO 5	An ability to identify and interpret the criteria for the classification of a substance as a solid/hazardous wastes.
CO 6	Ability to identify air pollution problems and interpret criteria air quality data.

COURSE TITLE : ANALYSIS AND DESIGN OF STRUCTURES FOR EARTHQUAKE AND WIND

COURSE CODE :7CE05

At the end of the subject the students will be able to –

	COURSE OUTCOMES
CO 1	Identify type of earthquake, its properties
CO 2	Do earthquake resistance planning
CO 3	Apply knowledge of seismic bands in masonry structure construction.
CO 4	To analyze and design buildings to resist seismic and wind forces
CO 5	Solve engineering problems in the context of Earthquake Engineering.

COURSE TITLE : ENVIRONMENTAL IMPACT ASSESSMENT AND LIFE CYCLE

COURSE CODE: 7CE05

Student shall be able to

	COURSE OUTCOMES
CO 1	Understand the concept and basic process of environmental impact assessment.
CO 2	Have knowledge regarding Impact assessment methodologies and Components of EIA.
CO 3	Be able to perform environmental auditing.
CO 4	Have knowledge regarding Sustainable development & environmental management.

COURSE TITLE : PAVEMENT DESIGN
COURSE CODE: 7CE05
At the end of the subject the students will be able

	COURSE OUTCOMES
CO 1	To explain the basics of highway & airport pavement.
CO 2	To carry out analysis of flexible pavement by various methods.
CO 3	To carry out design of flexible pavement by various methods.
CO 4	To carry out analysis of rigid pavement by various methods.
CO 5	To carry out design of rigid pavement by various methods.
CO 6	To apply IRC design parameters in design ,maintenance ,repair & rehabilitation for different types of pavement.

COURSE TITLE : WATER POWER ENGINEERING
COURSE CODE: 7CE05
At the end of the subject the students will be able

	COURSE OUTCOMES
CO 1	Describe the various sources of energy ststems.
CO 2	Classify the different power plants.
CO 3	Identify the problems related to hydraulic pressure.