

IV Year I Semester

COURSE OUTCOMES – CIVIL ENGINEERING

Geo-Environmental Engineering

At the end of the course, the student will be able to:

- CO1** :Solve engineering problems using the concepts of wave and particle nature of radiant energy
- CO2** :Understand the use of lasers as light sources for low and high energy applications
- CO3** :Understand the nature and characterization of acoustic design, nuclear accelerators and new materials
- CO4**: Apply the concepts of light in optical fibers, light wave communication systems, and holography and for sensing physical parameters
- CO5** :Construct a quantum mechanical model to explain the behaviour of a system at microscopic level

Design and Drawing of Irrigation Structures

Course Outcomes: At the end of the course, the student will be able to:

- CO1** Solve linear system equation
- CO2** Determine the Eigen values and vectors of a matrix
- CO3** Determine the power series expansion of a function
- CO4** Estimate the maxima and minima of multivariable functions
- CO5** Solve any given first order ordinary differential equation
- CO6** Solve any higher order linear ordinary differential equation with constant coefficients

Solid Waste Management

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PRESTRESSED CONCRETE STRUCTURES

Course objectives: At the end of the course, the student will be able to:

CO 1. To learn the principles, materials, methods and systems of prestressing

CO 2. To know the different types of losses and deflection of prestressed members

CO 3. To learn the design of prestressed concrete beams for flexural, shear and tension and to calculate ultimate flexural strength of beam

CO 4. To learn the design of anchorage zones, composite beams, analysis and design of continuous beam

CO 5. To learn the design of water tanks