Course Number and Name
BCE401 - THEORY OF STRUCTURES
Credits and Contact Hours
4 & 60
Course Coordinator's Name
Mr.K.Sathish Kumar
Course Objective
• To know the method of finding slope and deflection of beams and trusses using energy theorems and to know the concept of analysing indeterminate beam. • To estimate the load carrying capacity of columns, stresses due to unsymmetrical bending and various theories for failure of material.

Prerequisites	Co-requisites
NIL	Basic Structural Design

required, elective, or selected elective (as per Table 5-1)

Course Outcomes (COs)

CO1	To find the deflection in beams and frames using Energy theorems.
CO2	To analyze indeterminate beams like continuous beams and fixed beams
CO3	To analyze the long and short columns and determine the design loads
CO4	To assess the state of stress in three dimensions
CO5	To solve problems involving unsymmetrical bending structural members

Student Outcomes (SOs) from Criterion 3 covered by this Course

COs/SOs	a	b	c	d	e	f	g	h	i	j	k
CO1	H		H	M							
CO2	M		H	M							
CO3	M		H	M							
CO4	H		H	M							
CO5	H		H	M							