SEMESTER - II

AC 205 STRUCTURES-II L=2,S=0,W=0) CREDITS = 02

INTERNAL ASSESSMENT(TERM WORK/QUIZ, TEST) = 50 CONTACT HRS/WK = 02
UNIVERSITY EXAMINATION = 50

Focus: Strength of Materials.

Contents: Architectural considerations in material selection for structural use. Concept of strength and elasticity of a material. Concept of stress-strain. Types of stress, its importance, elastic limit, yield point, permissible stress, ultimate stress and elongation .

Composite sections. Conditions under which composite sections are preferred. Bending moment and shear force. Study of variation of bending moment and shear force on a beam ; point of contraflexure ;
Types of supporting conditions Cantilever beam, simply supported beam & continuous beam, overhanging beams.

REFERENCES:

SR.NO.	TITLE	AUTHOR
01.	Mechanics of Structures – I	S.B.Jurnarkar & H.J.Shah
02.	Strength of Materials	R.S.Khurmi
03.	Mechanics of Materias	Beer & Johston
04.	Mechanics of Materials	E.Popov
05.	Experimental Mechanics of Solides	B.M.Rawal
06.	Understanding Concept of Structural Analysis Design	J.P.Parikh