

BACHELOR OF INTERIOR DESIGN
Veer Narmad South Gujarat University, Surat.

B.ID. I; Semester I:

BASIC STRUCTURE I

Sub 1	Cod e No. 2	Teaching Scheme (Contact Hours)			Examination Scheme (MARKS)						Grand Total / Min ^m Passi ng 9+10 35%
					Internal (50%=10%+20%+20%)				External (50%)		
		Lectu re 3	Studio 4	Total Credit 5	Internal / Attend (10%) 6	Conti . Eval. (20%) 7	Final Review (20%) 8 (Jury/Viva/ Test)	Total (50%) (6+7+8) 9	Total 10	Min. Pass 11	
Basic Structure I		2	-	2	10	20	20	50	50	50 / 35%	100 / 35%

EMPHASIS: Exposure to built forms through its behavior of materials and Basic Structure systems.

CONTENT: Glossary of technical words, natural structures and their intuitive behavior, their relationship with man structure.
 Functions of structures. Primary and secondary forces acting structure – gravitational force i.e. dead load, live load, and environment loads like wind, temperature variation, earthquake etc.

Basic elements of structure and their behavior.
 Characteristic requirements of structural design – strength, stiffness and stability
 Study of behavior of structures through models and testing them for given load.
 General loading conditions various type of loading and calculation
 Details of shear force and bending moments including direct compressive and tensile force has to be understood in light of loading of various kind
 Simple example of detailed load calculation for various types of elements.

☞ REFERENCES:

- 1) Bear & Johnston – Vector mechanics for engineers – static
- 2) Desai and Mistry – Engineering Mechanics, Static & Dynamics
- 3) Junarkar & H. J. Shah – Applied Mechanics
- 4) Jeffery Cook – Seeking Structures from Nature