

AR-205

CODE	SUBJECT	CREDITS
AR-205	STRUCTURE-II	02
FOCUS		
	Behavior of materials and basic structural systems.	
CONTENT		
	<ol style="list-style-type: none">1. Structural properties of basic materials like masonry, timber, concrete and steel.2. Introduction to basic structural systems such as post-beam, bearing wall system, trusses, rigid frames, and their structural behavior. Distribution of loads through the elements of the system. Case studies.3. Effect of simple geometric forms on the overall structural behavior.4. Forms to be studied include cuboidal and prismatic with symmetrical and asymmetrical footprint layouts. Aspect ratio and its effect on the overturn resistance.5. Working out structural systems and their layout for a small building.	
METHODOLOGY		
	Through class lectures, Presentations, site visits, case studies and making models & testing them.	
REFERENCES:		
	<ol style="list-style-type: none">1. Structure in Architecture - Mario Salvadori2. Building Structure Primer - James E Ambrose3. Structures - Schodeck4. Structural Concepts and Systems for Architecture & Engineers - T.Y.Lin.5. Elements of Structure – Morgan	