AR-603

CODE	SUBJECT	CREDITS	
AR-603	STRUCTURE-VI	02	
FOCUS			
	Study of various forms of surface structures and their structural behavior.		
CONTENT			
	 Types of surface structures, detailed classification of stressed skin surfaces, general types. General equations of regular surfaces. Introduction to various types of shell behavior of the shells. Case studies. Various types of folded plate structures. General behavior and design of a sinfolded plate roof. Introduction to membrane structures, its behavior in general. Simple form find Development of simple forms in the laboratory and preparing scaled models. Case. Introduction to tension structures. Introduction to grids, planar and curved types of grids. Their structural behavior, technique for a curved grid. Development of simple forms and construction of simple forms. 	s. Structural nple V type of nding method. se studies.	
1.57777.0	Case studies.		
METHODOLOGY			
Through class lectures, Presentations, site visits, case studies and making model s & testing them.			
REFERENCES:			
	1. Introduction to shell structure, the art and science of vaulting - Michele Melaragno.		
	2. Building structures from concepts of design - Malcolm Millais.		
	3. Theory of Plates & Shells - Timoshenko.		