

GANPAT UNIVERSITY									
FACULTY OF ARCHITECTURE DESIGN & PLANNING									
Programme		Bachelor of Architecture			Branch/Spec.		INSTITUTE OF ARCHITECTURE		
Semester		VII			Version		1.0.0.0		
Effective from Academic Year			2015-16		Effective for the batch Admitted in			June 2015	
Subject code		VIIA03ABC		Subject Name		Advance Building Construction			
Teaching scheme					Examination scheme (Marks)				
(Per week)	Lecture(DT)		Practical(Lab.)		Total		CE	SEE	Total
	L	TU	P	TW					
Credit	3	-	-	-	3	Theory	180	120	300
Hours	6	-	-	-	6	Practical	-	-	-
Pre-requisites:									
Building facades, Dry walls, special constructions, Glass Buildings & modern urban Architecture. To understand advanced Building Technology to accommodate Hi-tech & sustainable aspects.									
Learning Outcome:									
Theory syllabus									
Unit	Content								Hrs
1	Dry wall Technology in Building facades. Methods, types, specifications, materials, case studies. Glass Buildings. Case studies, /safely & privacy/, climatology, Elements of glass /Roof, wall, etc. Aesthetics & Reflective uses.								
2	High rise Buildings Tall structures, Materials, /service Ducts, Construction Techniques, Foundations, Wind & Load Design/ Seismic Loads, Elements of Design. Construction of energy efficient Buildings, Hi-tech Services, Use of solar & Wind energy, Use of Natural Light in Interior spaces, Techniques & Equipments. Smart Buildings / Intelligent Buildings, case studies.								
3	Value Engineering material Selection, New materials, Economics of material use, Cost v/s quality, Function v/s use. Aluminum Composite Panels (ACP), Construction Techniques, fixing & refection, Aesthetics & Use, element life.								
Practical content									
In class lectures, presentations, case studies, drawings, Audio-Video & submissions.									
Text Books									
1	NA								
Reference Books									
1									
2									
3									
4									
5									
6									
7									