

GANPAT UNIVERSITY									
FACULTY OF ARCHITECTURE DEISGN & PLANNING									
Programme		Bachelor of Architecture			Branch/Spec.		INSTITUTE OF ARCHITECTURE		
Semester		VI			Version		1.0.0.0		
Effective from Academic Year			2015-16		Effective for the batch Admitted in			June 2015	
Subject code		VIA01ADS		Subject Name		Architecture Design Studio- VI			
Teaching scheme					Examination scheme (Marks)				
(Per week)	Lecture(DT)		Practical(Lab.)		Total	CE	SEE	Total	
	L	TU	P	TW					
Credit	-	-	12	-	12	Theory	-	-	-
Hours	-	-	15	-	15	Practical	720	480	1200
Pre-requisites:									
Synchronizing the entire building construction process for realization a conceptual built environment with respect to material & technology with the help of architectural working drawings, Understanding each aspect and stages of building and construction system and requirement of drawings for execution of the same at different stages. Understanding magnitude and relevance of details in construction, Exploration of building materials and technology in construction.									
Learning Outcome:									
Theory syllabus									
Unit	Content								Hrs
1	Working Drawing of Load Bearing Wall Structure: STAGE I (1) Foundation Plan (2) Working Floor Plan (3) Necessary Section. STAGE II (1) Working Elevations (2) Working Details. Working Drawing of Frame Structure: 1) Foundation Plan. 2) Floor Plans. 3) Elevation and Sections as necessary. 4) 3 working details of interesting part of building.								
2	Toilet & kitchen details (with emphasis of integration of services within building) Door window details Site Development Plan								
Practical content									
Preparation of working drawings in studio.									
Text Books									
1									
Reference Books									
1	Working Drawing details								
2	Reference books for Building construction.								

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Effective from Academic Year			2015-16		Effective for the batch Admitted in			June 2015	
Subject code		VIA02BCD		Subject Name		Building Construction & Details- VI			
Teaching scheme					Examination scheme (Marks)				
(Per week)	Lecture(DT)		Practical(Lab.)		Total		CE	SEE	Total
	L	TU	P	TW					
Credit	-	-	4	-	4	Theory	-	-	-
Hours	-	-	6	-	6	Practical	240	160	400
Pre-requisites:									
Understanding of specialized construction system.									
Learning Outcome:									
Theory syllabus									
Unit	Content								Hrs
1	Modular unit system. Space frame system. Tensile structures. Shell structures.								
2									
Practical content									
Site Visits, Case Studies, Analysis, Drawings, Presentations, Movies, Debates & Discussions related to the above syllabus.									
Text Books									
1	NA								
Reference Books									
1	Beyond the Cube: The Architecture of Space Frames and Polyhedral - J. François Gabriel								
2	Tensile structures - Frei Otto								

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Subject code		VIA03STR		Subject Name		Structure-VI			
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	3	-	-	-	3	Practical	-	-	-
Pre-requisites:									
Introduction to steel as a Design element.									
Learning Outcome:									
Theory syllabus									
Unit	Content								Hrs
1	Introduction to IS code: Introduction to IS -800 for steel structure. Rolled steel sections: study of IS rolled steel sections & steel table. Design of a simple roof truss: steel trusses, its types, geometry, spans, pitches, spacing etc. Various loads on a roof truss. i.e. dead, imposed & live. Analysis & calculation of dead load, live load & wind load. Analysis of a truss under various loads and design of truss members.								
2	Members subjected to axial tensile load : Analysis and design of a regular & built up steel sections subjected to an axial tensile load. Members subjected to axial compressive load: Analysis and design of a regular & built up steel sections subjected to an axial compressive load. Members subjected to transverse load: Analysis and Design of steel regular & built up sections subjected to bending i.e. beams .including analysis and checks for deflection and shear. Design of footing: Analysis & Design & detailing of slab based footing. Study of behavior& detailing of Gusseted based footings.								
Practical content									
Theory and Tutorials based upon course contents.									
Text Books									
1	NA								
Reference Books									
1	Design Of Steel Structures, Arya & Ajmani								
2	Design Of Steel Structures, A.K.Jain								
3	Design Of Steel Structures, Duggal								
4	Code Of Practice For Structural Steel Design BIS, New Delhi								
5	Structural Sections & Properties, BIS, New Delhi								

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Subject code		VIA04HOA		Subject Name		History of Architecture - VI			
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	3	-	-	-	3	Practical	-	-	-
Pre-requisites:									
Garden history, types, evolution, Abstraction, concept development, Visual relationship, spatial definitions, Outdoor furniture: types, usage criteria. To understand urban design as an inter-dependence that unites all the built environment professions, including urban planning, landscape architecture, architecture, civil and municipal engineering.									
Learning Outcome:									
Theory syllabus									
Unit	Content								Hrs
1	<p>GARDEN LANDSCAPE & STREET FURNITURE HISTORY</p> <p>History of architecture, origin of gardens in history Case study of all garden styles. Landform, grading, contour, etc. Landscape planning and assessment, visual analysis ,Site analysis criteria</p> <p>Spatial definition and Space site volume understanding Urban parks and contemporary notion of recreational spaces Planting design, Circulation, Parking, Paving design, enclosures Etc. Street furniture and details in garden design.</p>								
2	<p>Landscape enrichment with tangible and intangible elements like water, lighting, sculpture, fountains, Living creatures, sounds, smells etc</p> <p>Psychological factors in landscape architecture: Environmental perception and behavior</p> <p>Guest lecture on practice in outdoor recreation spaces design.</p> <p>Understanding the term Urban: Definitions and Approaches, looking at how various theorists have defined / understood the “urban” or the “city” as an object of investigation.</p> <p>Urbanism & New Urbanism Understanding the term Urban Design and inter-relation of Architecture and Urban Design.</p> <p>'Urban Design' as a focus on physical improvement of the public environment.</p> <p>Public Realm, definition and understanding the design of Public realm City Scapes / Town Scapes, understanding and analysis Understanding of Terminologies viz; Tissue, Block, Grains, Porosity, Typology, District, Landmarks.</p>								
Practical content									
Theory, Case Study, Analysis & Design based upon the selected Elective									
Text Books									
1	NA								
Reference Books									
1	A History of Architecture – Sir Banister Fletcher								

2	Genius Loci: Towards a Phenomenology of Architecture, Christian Noberg Schultz
3	Towards a new architecture -Le Corbusier
4	Complexity and Contradiction in Architecture -Robert Venturi
5	Modern Architecture and Design: An alternative history – Bill Risebero
6	Architecture: 19th and 20th Centuries -William J.R. Curti
7	Architecture after Modernism -Thames and Hudson

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Subject code		VIA05ESS		Subject Name		Environment Science Services-IV			
Teaching scheme					Examination scheme (Marks)				
(Per week)	Lecture(DT)		Practical(Lab.)		Total	CE	SEE	Total	
	L	TU	P	TW					
Credit	2	-	-	-	2	Theory	120	80	200
Hours	3	-	-	-	3	Practical	-	-	-
Pre-requisites:									
Introduction to Building Automation services, Introduction to Building Security Systems									
Learning Outcome:									
Theory syllabus									
Unit	Content								Hrs
1	Building Security Systems Concept of Building security Systems; Design issues, Components, Integrated approach in design, maintenance and management, Current trend and innovation, Application.								
2									
Practical content									
Site Visits & Case Studies of above topics. Presentations, Movies, Debates & Discussions related to the above syllabus									
Text Books									
1									
Reference Books									
1	Heating cooling, lighting, Norbert Lechner								
2	Mechanical & Electrical Equipment for Building William J. McGuiness & others								
3	Operation & Maintenance of Electrical Equipment B.V.S.Rao								
4	Intelligent Buildings and Building Automation, By Shengwei Wang								
5	Understanding Building Automation Systems, Reinhold A. Carlson								

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Subject code		VIBWS/ELE	Subject Name		Workshop / Elective- VI				
Teaching scheme					Examination scheme (Marks)				
(Per week)	Lecture(DT)		Practical(Lab.)		Total	CE	SEE	Total	
	L	TU	P	TW					
Credit	-	-	2	-	2	Theory	-	-	-
Hours	-	-	6	-	6	Practical	120	80	200
Pre-requisites:									
Effect of Built spaces on human psyche; visual aspects, visual control, visual art appreciation. To bring out creativity, imagination, originality and innovations in design. Designing various products of day to day life, enhance its functional and aesthetic values.									
Learning Outcome:									
Theory syllabus									
Unit	Content								Hrs
1	INTERIOR DESIGN: Understanding the need of Interior design. The relationship between Interior design and Architecture. The effect of interior spaces: its quality, characters and classification. Historical background and international perspective. Various art movements and isms that have affected design.								
2	Understanding the client brief and formulating the program and requirements. Elements of Interior space. Colors in interiors; Lighting in interiors; Interior climate; orientation and location of activities, Interior landscaping; Plant species, Study of various types of interior design								
Practical content									
Case Study, Analysis & Design based upon the selected subject of choice									
Text Books									
1									
Reference Books									
1									

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Subject code	VIB07SP*	Subject Name	Summer Programme-III*				
Teaching scheme				Examination scheme (Marks)			
(Per week)	Lecture(DT)	Practical(Lab.)		Total	CE	SEE	Total
	L	TU	P	TW			
Credit	NA			Theory	NA		
Hours	1 Week Case Study			Practical	ATTENDANT/ NOT ATTENDANT		
Pre-requisites:							
Observation of form and order in built environment.							
Learning Outcome:							
Theory syllabus							
Unit	Content						Hrs
1	Documentation, Sketching, Photography, Measure Drawing						
Practical content							
This summer workshop aims at creating understanding of inherent form and order in the built environment by observing it and analyzing by sketching and measure drawing. Hand sketch also gives an opportunity to students for examining the systems, scale and architectural language of the built.							
Text Books							
1	NA						
Reference Books							
1	NA						
2	NA						

