

<b>GANPAT UNIVERSITY</b>									
<b>FACULTY OF ARCHITECTURE DEISGN &amp; PLANNING</b>									
Programme		Bachelor of Architecture			Branch/Spec.		INSTITUTE OF ARCHITECTURE		
Semester		I			Version		1.0.0.0		
Effective from Academic Year			2015-16		Effective for the batch Admitted in			June 2015	
Subject code		IA01ADS	Subject Name		Architectural Design Studio I				
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:									
Form and Space Making. Experiencing movement through space and time. Anthropometry and space.									
Learning Outcome:									
Theory syllabus									
Unit	Content								Hrs
1	Principles of design & Elements of design. Understanding form-space relationship. Scale and Proportion. Principles of abstraction.								
2	Space-making and sensory experiences within space. Focus on imagination. Study of Anthropometry of Male, Female and Child.								
Practical content									
2D – 3D – 4D compositions. Space making using elements of design. Mapping a space with human body as scale. Movement through space and time. Intervention within a space in response to sensory stimuli.									
Text Books									
1	NA								
Reference Books									
1	Form, Space & Order-Francis D.K. Ching.								
2	Lessons for Students in Architecture 1 & 2-Herman Hertzberger.								
3	Experiencing Architecture- Steen Eiler Rasmussen.								
4	Lateral Thinking- Edward de Bono.								
5	Pattern Language-Christopher Alexander.								
6	Architecture Scale & Proportion and architecturally speaking-Eugene Raskin.								
7	How Architecture Works-Douglas Gordon &Stephine Stubbs.								
8	Architecture: The Appreciation of Arts-Sinclair Gaudie.								

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Effective from Academic Year			2015-16		Effective for the batch Admitted in			June 2015	
Subject code		IA02BOD		Subject Name		Basics of Design-I			
Teaching scheme					Examination scheme (Marks)				
(Per week)	Lecture(DT)		Practical(Lab.)		Total	CE	SEE	Total	
	L	TU	P	TW					
Credit	-	-	6	-	6	Theory	-	-	-
Hours	-	-	6	-	6	Practical	360	240	600
Pre-requisites:									
Sketching and Model making Skill, building and visualization of 3D forms.									
Learning Outcome:									
Theory syllabus									
Unit	Content								Hrs
1	Intense sketching and model making for Skill Building as a primary focus: Drawing from Observations.								
2	Principles of 2D and 3D composition to teach them how to design. Focus on drawing, model making and visualization.								
Practical content									
Relevant exercises in sketching and model making. Medium of sketching and exploration through techniques. Thought process through surfaces, materiality and light. Skill based exercises inducing architecture of communication through sketching & documenting architecture.									
Text Books									
1	NA								
Reference Books									
1	Form, Space & Order - Francis D.K. Ching.								
2	Ways of Seeing - John Berger.								
3	Graphics in Architecture - Francis D.K. Ching.								
4	Architecture Scale & Proportion - Eugene Raskin.								
5	From Models to Drawings - FrascariMarw.								
6	Architectural Model Making - Eva pascualMiro.								
7	Art in Everyday Life - Harriet Goldstein.								

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Effective from Academic Year			2015-16		Effective for the batch Admitted in			June 2015	
Subject code		IA03TRD	Subject Name		Technical Representative Drawings - I				
Teaching scheme					Examination scheme (Marks)				
(Per week)	Lecture(DT)		Practical(Lab.)		Total	CE	SEE	Total	
	L	TU	P	TW					
Credit	-	-	3	-	3	Theory	-	-	-
Hours	-	-	6	-	6	Practical	180	120	300
Pre-requisites:									
Developing skills for representation of geometric forms and compositions as a tool of design.									
Learning Outcome:									
Theory syllabus									
Unit	Content								Hrs
1	Familiarization with drawing materials and equipment. Construction, use and composition of different types of lines in drawing preparation. Understanding of intensity of lines and types of lines for architectural representation. Lettering and architectural abbreviations. Basic principles of geometry and its construction.								
2	Introduction of Plan, Elevation & Section. Projection of Lines, Plane and solids. Development of Surfaces. Orthographic Projections.								
Practical content									
How to sharpen a pencil, Understanding of paper and other media, Exercises with lines in different directions, different intensities, hatches, Basic Understanding of coordinate systems. Composition of a drawing and its graphic appeal. Lettering and Calligraphy. Exercises in geometry. Development of Surfaces. Planes, Orthographic projections.									
Text Books									
1	NA								
Reference Books									
1	Engineering Drawing -N.D. Bhatt.								
2	Graphic Thinking for Architects and Designers - Paul Leaseua.								
3	Graphics in Architecture-Ching, Francis D. K.								
4	Visualization Techniques- Richard B.Leinbach.								

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Effective from Academic Year			2015-16		Effective for the batch Admitted in			June 2015	
Subject code		IA04BCD		Subject Name		Building Construction & Details - I			
Teaching scheme					Examination scheme (Marks)				
(Per week)	Lecture(DT)		Practical(Lab.)		Total	CE	SEE	Total	
	L	TU	P	TW					
Credit	-	-	3	-	3	Theory	-	-	-
Hours	-	-	4	-	4	Practical	180	120	300
Pre-requisites:									
Cob Adobe Systems, Brick and Stone Masonry									
Learning Outcome:									
Theory syllabus									
Unit	Content								Hrs
1	Building Elements – functions and Design a. Functional Requirement of Building. b. Important Building Components. c. Foundation, Plinth and Superstructure.								
2	Stone Masonry: a. Techniques with examples b. Case studies of buildings c. Landmark structures								
3	Brick Masonry: a. Techniques with examples b. Types of Brick masonry c. Case studies of Buildings with exposed brickwork d. Landmark structures								
4	Mud Construction: a. Cob and Adobe Systems.								
Practical content									
Lectures on basic construction of building. Studio exercises and case studies. Study of various contents of existing building through sketches & models. Site visit.									
Text Books									
1	NA								
Reference Books									
1	Construction of Building Vol.-I- R.Berry								
2	Building Construction Metric Vol.-I to IV- W.B.Mckay								
3	Construction Technology Vol.-I-Chudley								
4	Building Construction Illustrated-FransisD.K.Ching.								

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Effective from Academic Year			2015-16		Effective for the batch Admitted in			June 2015	
Subject code		IA05BM	Subject Name		Building Material - I				
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	2	-	-	-	2	Practical	-	-	-
Pre-requisites:									
Introduction of Basic Building Material.									
Learning Outcome:									
Theory syllabus									
Unit	Content								Hrs
1	Materials: Mud, Bricks, Stone, timber, lime, cement. Different types of timber, their seasoning quality etc.								
2	Their physical and behavioral properties, methods of application, criteria for selection of materials based on design.								
Practical content									
Theory in the class with given assignments and practice questions, sketching and drawing, in class - interactions, case studies & final exam and final submission of class works. Site Visits: Wooden Saw mill, Brick Kiln, Cement Plant Visit.									
Text Books									
1	Engineering Materials – S.C. Rangwala (course book)								
Reference Books									
1	Building Materials – B.C. Punamia (Additional Reference)								
2	Time Savers Standards – Building Materials and Systems – Donald Watson (Advanced)								

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Subject code		IA06HOA	Subject Name		History of Architecture - I				
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	2	-	-	-	2	Practical	-	-	-
Pre-requisites:									
History of Human Settlements, Civilizations and Cultures.									
Learning Outcome:									
Theory syllabus									
Unit	Content								Hrs
1	Elementary concept of civilization, society, settlements, culture and its articulation in Architecture and built form; Historical context of building forms.								
2	Study of society, its historical, socio–institutional developments, settlements, public and private spaces, symbols and meaning in built form and spatial structures.								
3	Study of social, political and religious orders; articulation in built forms, socio–cultural milieu, development of thought and philosophy; introduction to art movements.								
Practical content									
Lectures, Presentations, Movies, Discussions and Debates based upon the above syllabus									
Text Books									
1									
Reference Books									
1	A Handbook of Civilization - Prentice Hall Publications.								
2	Ascent of Man - J.Bronowski.								
3	History of world - Arnold Toynbee.								
4	History of Civilization - C.E.M. Joad.								
5	A History of Architecture – Sir Banister Fletcher								

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Subject code		IA07STR		Subject Name		Structure - I			
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	2	-	-	-	2	Practical	-	-	-
Pre-requisites:									
Forces - Force System - Equilibrium - Resultant									
Learning Outcome:									
Theory syllabus									
Unit	Content								Hrs
1	Introduction : Fundamental principles of Engineering Mechanics, Newton's laws of motion, aw of parallelogram of forces, principle of transmissibility, concept of rigid body, particle. Natural forms : Understanding Nature- a creative base for understanding structure, correlation between natural & manmade structure.								
2	Forces : Introduction to types of forces, Static loading, Time dependent loading, Impact loading, Cause & effect of various forces like Dead load, Imposed load, Wind load, Earthquake load, Hydrostatic load, erection force etc on building. Effect of physical form on load transfer i.e. Forces acting through point, distributed forces on line, & area.								
3	Force systems : Free body diagram, Resolution of forces into components, Types of force systems, concurrent, coplanar, non concurrent etc. forces in plane & space. Calculation of resultant for coplanar parallel & coplanar concurrent force system, calculation of moment.								
4	Equilibrium : Introduction to Equilibrium, Conditions of equilibrium for the coplanar parallel & coplanar concurrent force system, Types of supports, Determinacy, & Stability, Basic behavior of elements in load transfer i.e. bending, torsion, shear, tension, compression etc.								
5	Beam : Introduction as a flexural element, simply supported, overhanging & cantilever beams, determinacy, calculation of Reaction at supports for beam, Application. Truss : Introduction, Types of truss, Analysis of a plane truss. Use of graphical method. Introduction to space truss, Application.								
Practical content									
Tutorial based on course contents. Making of models based on- stability & load transfer concept. Creative exercise based on course content.									
Text Books									
1	NA								
Reference Books									
1	Engineering Mechanics - Statics and Dynamics, Desai & Mistry.								
2	Seeking Structure from Nature - Jeffrey Cook.								
3	Fundamentals of Structures -SalvaDorie.								
4	Applies Mechanics - S.B Jurnakar& H .J Shah.								

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Subject code		IA08CS		Subject Name		Communication Skills - I			
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	2	-	-	-	2	Practical	-	-	-
Pre-requisites:									
To have practical exposure to basic Language techniques in a Professional environment and develop skills of listening, reading, writing and speaking. To develop communication and employability skills of the students in the current competitive scenario.									
Learning Outcome:									
Theory syllabus									
Unit	Content								Hrs
1	Communication Skills, Grammar & Listening Skills, Interviews, Group Discussion & Job Application, Reading Skills, Paragraph Development & Letter Writing.								
2	Technical Reports & Effective Presentation, Technical descriptions and technical proposals.								
Practical content									
Lectures, Presentations, Movies, Discussions and Debates based upon the above syllabus.									
Text Books									
1	NA								
Reference Books									
1	Word Power Made Easy - Norman E. Lewis.								
2	Technical Communication-Principles and Practice - Meenakshi Raman&Sangeeta Sharma, Oxford University Press								



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Subject code		IB09WS/ELE	Subject Name		Workshop/Elective - I				
Teaching scheme					Examination scheme (Marks)				
(Per week)	Lecture(DT)		Practical(Lab.)		Total	CE	SEE		Total
	L	TU	P	TW					
Credit	-	-	2	-	2	Theory	-	-	-
Hours	-	-	2	-	2	Practical	120	80	200
Pre-requisites:									
Materials based workshops. Exploration of materials, presentation and model making techniques.									
Learning Outcome:									
Theory syllabus									
Unit	Content								Hrs
1	Sketching, Painting, Clay modeling, Photography, Model making, Paper Art								
Practical content									
Models from various above mentioned materials to explore and understand the basics of materials.									
Text Books									
1	NA								
Reference Books									
1	Architectural Renderings, Schillaci.								
2	Rendering with pen & Ink, Robert Gill.								

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Subject code	IB10RSP	Subject Name		Related Study Programme - I				
Teaching scheme				Examination scheme (Marks)				
(Per week)	Lecture(DT)		Practical(Lab.)		Total	CE	SEE	Total
	L	TU	P	TW				
Credit					Theory	ATTENDANT/ NOT ATTENDANT		
Hours	1 Week Case Study				Practical			
Pre-requisites:								
To understand the human habitat in different area of India. Their existences and important of spaces in today's.								
Learning Outcome:								
Theory syllabus								
Unit	Content						Hrs	
1	Documentation, Analysis of space, Measure Drawings.							
Practical content								
This RSP 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							

