

GANPAT UNIVERSITY									
FACULTY OF ARCHITECTURE DESIGN & PLANNING									
Programme	Bachelor of Design				Branch/Spec.	Bachelor of Interior Design			
Semester	III				Version	1.0.0.0			
Effective from Academic Year		2016-17			Effective for the batch Admitted in			June 2016	
Subject code	IIIA01DS		Subject Name		Design Studio- III				
Teaching scheme					Examination scheme (Marks)				
(Per week)	Lecture(DT)		Practical(Lab.)		Total		CE	SEE	Total
	L	TU	P	TW					
Credit	-	-	8	-	8	Theory	-	-	-
Hours	-	-	9	-	9	Practical	40	60	100
Objective:									
<ul style="list-style-type: none"> <input type="checkbox"/> Explores the relationship between spatial, architectural and interior elements and their impact on layouts and space planning relationships. <input type="checkbox"/> Focuses on spatial, architectural and interior elements. It helps understanding of spatial relationships between architectural/design principles, elements and their systems, scale, light and movement. <input type="checkbox"/> Developing visual perception of interior spaces through architectural elements (linear and planer). Space making in order to understand elements and organization. <input type="checkbox"/> A commercial project will be the basis of exploring the interrelationship between design discipline of Architecture and Interior design. <input type="checkbox"/> Design efficiency in terms of movement pattern, relationship between display, storage and sales; exploring customer-owner behavioural pattern, efficiency in function and activities. <input type="checkbox"/> To understand the designing of a commercial/public space/exhibition space of the dimensions 20 x 20 x 10 m along with an experimentation in terms of Space planning concepts, material and technical understanding. 									
Learning Outcome:									
<p>LO1: Exploring the Space planning concepts visualization through quick sketches and study models.</p> <p>LO2: Understanding spatial Relationship, design principles through space defining elements with the good understanding of scale, light quality and movement.</p> <p>LO3: Presentation skills with special emphasis on methods of display and its analysis, design of display and furniture units, its materials and colour and finishing items.</p> <p>LO4: Material exploration, colour, texture of finishing and furnishing materials.</p>									
CONTENT & TEACHING UNITS									
Unit	Content								Hrs
1	Understanding of elements of visual perception – line, form, space, colour, texture, pattern etc.								09
2	Analysis of visual impression of forms through line, plane and solids, and their integration, evolution of forms.								09
3	Space planning concepts.								12
4	Introduction of Design Studio brief								12
5	Basic case studies (Primary/Secondary)								12
6	Introduction to the Program								12
7	Site and the Context								12
8	understanding the co-relation between Program, site and context								12
9	Studying and analyzing based on activity mapping, bubble diagrams.								12
10	Design Process								12

11	Design Alternatives with Material exploration & In detail space making elements of design. Design Finalization with all sets of Drawings and final 3d model & Prototypes.	18
Practical content		
Students shall gain an in depth knowledge of the commercial/public spaces, where the user group is not fixed, but varies as per the usage. This will enable the students to understand and learn how the spaces work when it is not meant specifically for single users, but is based on the functional diversity and typology.		
Text Books		
1	-NA-	
Reference Books		
1	Ching, Frances D.K. - Form, space, order	
2	Wucius Wong- Principle of form and design	
3	Martin Pagler-Visual merchandising and display Julius Panero and Martin Zelnik	
4	Julius Panero and Martin Zelnik- Human dimension and Interior space: A source book of design reference standards	
5	Ahmed Kasu – Interior Design – an Introduction to Art, Craft Science, Technique and Profession of Interior Design	

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Semester	III				Version	1.0.0.0			
Effective from Academic Year	2016-17				Effective for the batch Admitted in	June 2016			
Subject code	IIIA02FD		Subject Name		Furniture Design- 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	40	60	100
Objective:									
<input type="checkbox"/> Analysing the function & form of furniture <input type="checkbox"/> Understanding Ergonomics as scientific base to develop comfort criteria for human activity specifically in furniture design. <input type="checkbox"/> Designing furniture by applying ergonomics, material technology and visual perception in a given space or function or activity. <input type="checkbox"/> To understand the interface between Space and the Envelope, by analysing the tools and mediums for the interaction of the spaces. Furniture design , aims at understanding of that tools and designing of the same through a design process .									
Learning Outcome:									
LO1: Ergonomics -its basic theory and relationship with human comfort criteria LO2: Understanding activity/ function/ use and identifying determinants to design furniture elements. LO3: Visual perception of furniture as single form and as a system in a given interior space. LO4: Understanding the viability and validity of each component used and designed . LO5: Learning by doing- Making of the furniture through Models/Prototypes .									
CONTENT & TEACHING UNITS									
Unit	Content								Hrs
1	Information about an assignment of the course.								06
2	Overview in Furniture design history of modern design of 19th and 20th century (Assignment).								12
3	Analysis of existing Residential/Sitting piece of furniture in its functional aspects, technical aspects , and skills required, materials, flexibility, comfort, ergonomic and aesthetic considerations, transportation and economic factors.								12
4	Re-design Measure Drawn Residential furniture under study – plan, elevation and detail drawing on full scale.								12
5	Furniture design in the given space - universal, working and relaxing sitting furniture/ terminology, typology, ergonomics and construction principles.								
5(a)	Conceptual Form finding analysis sketches functional aspects, technical aspects, and skills required, materials, flexibility, comfort, ergonomic and aesthetic considerations,								12
5(b)	Materials & Form Explorations.								12
5(c)	Design alternatives and comparative analysis								12
5(d)	Final Furniture constructions (incl. fittings and other components) Technical drawings preparation in 1:10 or 1:5 scale. Manufacture a model in scale 1:10 or 1:5 plus a prototype (optional) 1:1 scale.								18
Practical content									
History of furniture forms from early days to industrial revolution and now to neoclassicism. Understanding the critical issues of human anthropometrics, critical nature of each and every Dimension, details, material and aesthetics and the degree of comfort through models and prototypes.									

Text Books	
1	NA
Reference Books	
1	Ahmed Kasu – Interior Design – an Introduction to Art, Craft Science, Technique and Profession of Interior Design
2	Clive Edwards – Encyclopedia of furniture, Material, Trades and Techniques
3	Ed. Lydia Darbyshire – The Decorative Art Library, furniture, a visual celebration of World's great Furniture making tradition
4	Yates Simon – Encyclopedia of Furniture
5	Lesley Jackson – Contemporary Architecture and interior of 1950s
6	History of Furniture design
7	Wiley-Blackwell: Neufert – Architects Data
8	Joseph De Chira: Time Savers Standards for Interior Design and Space Planning

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Semester	III				Version	1.0.0.0			
Effective from Academic Year	2016-17				Effective for the batch Admitted in	June 2016			
Subject code	IIIA03GD		Subject Name		Graphic Design- 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	-	-	3	-	3	Practical	40	60	100
Objective:									
<input type="checkbox"/> Explore fundamentals of visual perception in graphics. <input type="checkbox"/> Understanding graphics as a tool for visual communication and expression. <input type="checkbox"/> Search for forms through: "Geometry-grid as base. <input type="checkbox"/> Communication of ideas/emotions through simplification and abstractions <input type="checkbox"/> Visual perception of forms and understanding tessellation.									
Learning Outcome:									
LO1: Understand the Visual perception of forms, patterns and design. LO2: Forms as entity, individuals, identity and beauty. LO3: Understanding of different compositions: LO4: Balanced/ Unbalanced, static/Dynamic, Symmetrical/ Asymmetrical. LO5: Visual balance and understanding of Figure & Ground relation through compositions. LO6: Tessellation as morphing of images is visually perceived and explored.									
CONTENT & TEACHING UNITS									
Unit	Content								Hrs
1	Subject Introduction and Information about an assignment of the course.								03
2	Search for forms through: "Geometry-grid as base developing variations in grid superimposing grids evolving new forms using grid as base or guideline. Search for grid/grids in nature and understanding natural forms.								12
3	Variations and repetitions in forms [Derived from geometrical grid/ natural form] to develop patterns.								12
4	Understanding tessellation through Escher's work where transforming and morphing of images Compositions: Exploring visual balance and understanding of Figure & Ground relationship.								12
5	Depicting in a 10 cm X 10 cm square, visually using basic forms like lines, circles, squares, triangles.								09
Practical content									
The emphasizes on graphic design as a space making tool through 2-d and 3-d tessellations; its application at the interior scale across functional types and communication systems, is subsequently explored.									
Text Books									
1	-NA-								
Reference Books									
1	Philip B. Meggs: A History of Graphic Design.								
2	Steven Heller & Teresa Fernandes: Becoming a graphic designer								
3	Ching, Frances D.K. - Form, space, order								
4	Wucius Wong : Principle of form and design by								

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Effective from Academic Year		2016-17			Effective for the batch Admitted in			June 2016	
Subject code	IIIA04IMT		Subject Name		Interior Material & Technology- II				
Teaching scheme					Examination scheme (Marks)				
(Per week)	Lecture(DT)		Practical(Lab.)		Total	CE	SEE	Total	
	L	TU	P	TW					
Credit	-	-	2	-	2	Theory	-	-	-
Hours	-	-	3	-	3	Practical	40	60	100
Objective:									
<input type="checkbox"/> Understanding of various building components , their place and composition within the systems , possibilities of different material use.									
<input type="checkbox"/> Understand the construction and execution process of Floor, Partitions, False Ceiling, Roof and Staircases.									
<input type="checkbox"/> To understand basic building materials and construction process .									
Learning Outcome:									
LO1: Understanding of Visual quality of all the materials in terms of texture, colour and patterns.									
LO2: Material's physical and behavioural properties , methods, tools of application, different construction techniques and criteria for selection of material based on design.									
LO3: Understanding principles & possibilities of various construction Technology & their applications.									
LO4: Understanding construction process of Interior Construction and material use .									
CONTENT & TEACHING UNITS									
Unit	Content								Hrs
1	Subject Introduction and Information about an assignment of the course.								03
2	Method of construction for typical Floors: Dry and wet floor construction Timber/Wooden floor construction Construction of Precast and RCC Floor Construction of Steel floor Flooring systems Metal decks								12
3	Types of Partitions Brick partitions Clay block partitions Concrete partitions Glass Partitions Timber partitions Metal partitions.								12
4	Suspended ceiling system, Plaster of Paris, cement sheet, gypsum board Ceiling, Mineral Fiber Board, Metal Etc. Roofs: Metal, PVC and Polycarbonate Roofing Systems.								12
5	Staircase: Types of stairs, Different construction material used to make Stair - Metal, Wood, Glass Etc.								09
Practical content									
Case Studies, Site Visits, Trade Literature Collection ,Studio exercises.									
Text Books									
1	NA								
Reference Books									

1	Mackey W.L -Building Construction, Vol –I,II,III & IV
2	Arora S.P. & Bindra S.P. -Building Construction
3	Barry .R - The Construction of Building, Vol-I,II,III & IV
4	Building Construction Illustrated- F.D.K. Ching
5	Sushil Kumar – Building Construction
6	Rob Thallon - Graphic Guide to Interior Details: For Builders and Designers
7	Corky Binggeli - Building Systems for Interior Designers
8	W. Otie Kilmer - Construction Drawing and Details for Interiors
9	Edward Allen, Joseph Iano - Fundamentals of Building Construction: Materials and Methods
10	J. Rosemary Riggs - Materials and Components of Interior Architecture

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Effective from Academic Year		2016-17			Effective for the batch Admitted in			June 2016	
Subject code	IIIA05GT		Subject Name		Graphical Techniques- III				
Teaching scheme					Examination scheme (Marks)				
(Per week)	Lecture(DT)		Practical(Lab.)		Total	CE	SEE	Total	
	L	TU	P	TW					
Credit	2	-	-	-	2	Theory	40	60	100
Hours	2	-	-	-	2	Practical	-	-	-
Objective:									
<input type="checkbox"/> Understanding graphics as space making element. <input type="checkbox"/> Understanding graphics as an image maker as well as a visual communicator. <input type="checkbox"/> Creation of hand sketches & computer-base presentations and simulations to communicate information <input type="checkbox"/> Appreciate the nature and scope of graphics in industry and the relationships between graphics technology, the individual, society and the environment.									
Learning Outcome:									
LO1: Space transformation through graphics – use of linear patterns, planer patterns or solid forms. LO2: Graphics and its application on architectural / interior elements - on hard surfaces and soft surfaces. Colour, texture and material application. LO3: Art/craft forms of various cultures, religions and traditions in graphic design and Its reflection in interior spaces. LO4: Graphics for varied functional spaces– commercial, institutional, restaurants, hotels, etc. Graphics in space organizing elements as a link of coordinating various design elements. LO5: evaluates the impact of graphics on society industry and the environment.									
CONTENT & TEACHING UNITS									
Unit	Content								Hrs.
1	Exploring graphics in interior spaces through existing/functional elements that make an interior space . Analysis of existing photographs of interiors as well as on-site photography to understand nature of spaces and their elements . To understand its intention, relevance and execution.								4
2	Introducing one color-graphic exercise in interiors where appropriate use of color is paramount to the final visual outcome.								4
3	Exploring graphics in exterior spaces . Introduction to street graphics and visual study and Photography .								6
4	Analysis of few existing mega graphics. E.g.: Advertising boards in terms of size, color, composition and intended message (other than product advertising).								4
5	Communicative/non-communicative elements in the surrounding environment.								6
6	Role of Graphics in exteriors like designing graphics for domestic & public spaces or domain.								4
7	Signage Design: Signage in urban context . - Community/directional/indicative Architectural signage (retail/institutional) to explore exterior architectural space. Communicative signage's in interiors.								4
Practical content									
Case Studies, Site Visits, Trade Literature Collection ,Class room exercises.									
Text Books									

1	NA
Reference Books	
1	Karen Lewis: Graphic design for Architects.
2	Ellen Lupton: Graphic design thinking.
3	Adrian Shaughnessy: Graphic design : A user's Manual.

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Effective from Academic Year		2016-17			Effective for the batch Admitted in			June 2016	
Subject code	IIIA06SPD		Subject Name		Space Perception & Display & Behavioural Sciences				
Teaching scheme					Examination scheme (Marks)				
(Per week)	Lecture(DT)		Practical(Lab.)		Total	CE	SEE	Total	
	L	TU	P	TW					
Credit	2	-	-	-	2	Theory	40	60	100
Hours	2	-	-	-	2	Practical	-	-	-
Objective:									
<input type="checkbox"/> Understands the Psychology of Space and behaviour. <input type="checkbox"/> Exploring environmental qualities like sound & light in space. <input type="checkbox"/> Developing an awareness towards the psychological responses created due to particular type of environment. <input type="checkbox"/> Introduction to Behavioural Science. <input type="checkbox"/> Exercising abstract concepts & ideas in design.									
Learning Outcome:									
LO1: Exploration of principles of Design and Psychology of Space.									
LO2: Understand of the Spatial behavior and environmental qualities like sound & light in space.									
LO3: Developing an awareness about how social dimensions play an important role in interior design.									
LO4: Understanding society and its elements, Culture & its understanding.									
CONTENT & TEACHING UNITS:									
Unit	Content								Hrs
1	Analysis of principles & composition used in a manmade environment using abstraction in 2 D & 3 D dimensions (Space perception).								4
2	The design process & role of abstract concepts & ideas as an ordering mechanism. Symbolism & communication, identity, character & image ability.								4
3	Exploring environmental qualities like sound & light in space.								4
4	Essential elements of Society - Bio-socio-cultural societies. Characteristics of human society. Social Norms, their origin and classification, Status and role, ascribed and achieved statuses,								4
5	Primary groups and Secondary groups, Family and its problems.								4
6	Characteristics of Urban Social life, Process of Urbanization in India, Urbanization and industrialization, Social problems of Urban life.								4
7	Definition and scope of environmental psychology, unit of built environment-factors affecting it. Color and human behavior, size and shape of room, ambient environment.								4
8	Personal space and territoriality., Furnishing and Furniture. Single Family Housing and Multiple Family Housing, Institutions – Hospitals, Commercial Environment, Offices - behavior in work places.								4
Practical content									
Explore visual space in any solid mass, Explore through Case Studies, Class room exercises.									
Text Books									
1	NA								
Reference Books									
1	Environmental Psychology- Norman Heimstra								
2	Designing for Human Behavior- Jon Lang								
3	Creating an Architectural Theory -Jon Lang								
4	The Poetics of Space- Gaston Bachelard								

5	The Eyes of the Skin: Architecture and the senses- JuhaniPallasma
6	Spaces Speak, are you listening?- Barry Blesser
7	The Experience of Architecture- Henry Plummer

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Effective from Academic Year		2016-17			Effective for the batch Admitted in			June 2016	
Subject code	IIIA07HOID		Subject Name		History of Interior Designing- I				
Teaching scheme					Examination scheme (Marks)				
(Per week)	Lecture(DT)		Practical(Lab.)		Total	CE	SEE	Total	
	L	TU	P	TW					
Credit	2	-	-	-	2	Theory	40	60	100
Hours	2	-	-	-	2	Practical	-	-	-
Objective:									
<input type="checkbox"/> History of Modern movement in Design and Architecture. <input type="checkbox"/> To provide the students knowledge of the Interior Design trends of the later part of 20 th century and of Traditional Indian Style. <input type="checkbox"/> Exploring a broad range of design styles and movements of the later of 20 th century.									
Learning Outcome:									
LO1: Traditions such as Non European, Scandinavian and Indian Tradition in detail and also learn about influence of art and culture in all the art movements. LO2: Evaluation of Interiors LO3: Developments of Modern movements –various fields of design affecting Interior ambiance directly –International modernism, regionalism and concerns with vernacular etc. cultural identity and its expression.									
CONTENT & TEACHING UNITS									
Unit	Content								Hrs.
1	Subject Introduction and Information about an assignment of the course.								2
2	Understanding of Modernism design movement.								4
3	Study of non European traditional such as China, Japan and Islamic World, Influences of American art and cultural influence in interior design.								10
4	Scandinavian Traditions style in Interior Design.								06
5	Traditional style of design and decorations of home and accessories across the states in India including Rajasthan, Gujarat, Andhra, Tamil Nadu, Madhya Pradesh etc.								10
Practical content									
Time line of Interior Designing map. (past, present, future), Case Studies, Trade Literature Collection ,Class room exercises.									
Text Books									
1	NA								
Reference Books									
1	Interior Design Illustrated- Francis D. K. Ching								
2	Global history of architecture - Francis D. K. Ching								
3	History Of Architecture, Sir Banister Fletcher, CBS Publisher & Distributors, New Delhi.								
4	Ahmed Kasu – Interior Design – an Introduction to Art, Craft Science, Technique and Profession of Interior Design.								
5	Clive Edwards – Encyclopedia of furniture, Material, Trades and Techniques								

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Semester	III				Version	1.0.0.0			
Effective from Academic Year		2016-17			Effective for the batch Admitted in			June 2016	
Subject code	IIIA08WS/ELE		Subject Name		Workshop/ Elective- III				
Teaching scheme					Examination scheme (Marks)				
(Per week)	Lecture(DT)		Practical(Lab.)		Total		CE	SEE	Total
	L	TU	P	TW					
Credit	-	-	2	-	2	Theory	-	-	-
Hours	-	-	3	-	3	Practical	40	60	100
Objective:									
<input type="checkbox"/> Materials based workshops. Exploration of materials, presentation and model making techniques <input type="checkbox"/> Understanding different material properties and use as building material as a structural and finishing material.									
Learning Outcome:									
LO1: The students will learn the material's physical properties & behaviour with hands on experiences. LO2: it's application and different techniques used for work with materials (Ex: Wood, ceramic, Metal, Bamboo, Clay etc.). LO3: Student's will Explore different material properties based on their design model.									
Theory syllabus									
Unit	Content								Hrs
1	Ceramic & clay workshop.								48
2	Wood workshop/Model making workshop								
3	Bamboo workshop								
4	Metal workshop								
5	Art/Paint workshop								
6	Glass painting workshop								
Practical content									
This RSP aims at creating understanding of inherent form and order in the built environment by observing it and analysing by sketching and measure drawing. Hand sketch also gives an opportunity to students for examining the systems, scale and language of the built.									
Text Books									
1	NA								
Reference Books									
1	NA								

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Effective from Academic Year	2016-17			Effective for the batch Admitted in	June 2016		
Subject code	IIIA09RSP*	Subject Name		Related Study Programme- II*			
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	ATTENDED/ NOT ATTENDED		
Objective:							
<input type="checkbox"/> Study of important market places and small scale institutions and their impact on people. <input type="checkbox"/> Study and documentation of the Street Façade and external architectural/structural elements of an internal street and a main street. <input type="checkbox"/> Activity mapping on Ghats and market streets <input type="checkbox"/> Study and analyse quality of shared spaces between the building, Patterns of social interactions – one-to-one, small group formations, community gatherings etc. activity and scale of space.							
Learning Outcome:							
LO1: Examine each Ghats, market street and residential areas and observe different types of commercial activities occurring on different parts of the street and document by identifying the pattern in which each commercial activity is divided. LO2: Students will Identify a building and understand the spaces required for that particular building, the way of organizing of different things and quality of spaces formed due to that. Students will generate plans of the building and circulation pattern of visitors and workers inside the building. LO3: Students will measure draw furniture details along with materials and ways of construction. Also, the students will analyse specialized product display system; showcase windows at street level, product communication at a street level, signage and advertisement for masses of people.							
Practical content							
Unit	Content						Hrs
1	Measured drawings of various community housing, individual residences, retail shops and space making elements revealing architectural style.						NA
2	Street Plan, elevations and sections in 1:200 scale of commercial spaces, individual shops plans, elevations and sections in 1:50 scale, details in 1:20 scale. Their observation shall be in text form in A4 size document.						
3	Monument mapping in 1:500 scale; Building plans, elevations and sections in 1:100 scale; details in 1:20 scale, sketches and photographs composed in A1 size sheet. Their observation shall be in text form in A4 size document.						
Practical content							
This RSP aims at creating understanding of inherent form and order in the built environment by observing it and analysing by sketching and measure drawing. Hand sketch also gives an opportunity to students for examining the systems, scale and language of the built.							
Text Books							
1	NA						
Reference Books							
1	NA						