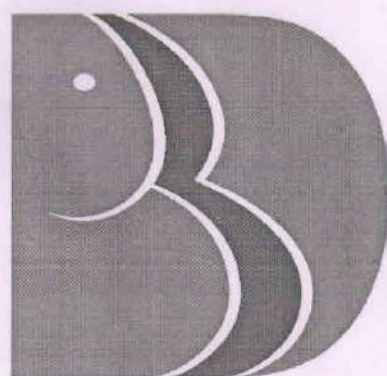


BABU BANARASI DAS UNIVERSITY

COURSE STRUCTURE
AND
SYLLABUS
FOR
BACHELOR OF INTERIOR DESIGN
AS PER CBCS SYSTEM



School of Architecture and Planning,
BBD University

**SCHOOL OF ARCHITECTURE, BBD UNIVERSITY BACHELOR OF INTERIOR DESIGN
PROGRAMME STRUCTURE (UNDER CBCS)**

Course category	Course Code	Course Name	Teaching				Total Credits	Evaluation					Duration of exam in Hours
			L	T	P	Total Hours		Theory		Lab/Seminar/ viva- voce /Dissertation		Total	
								ESE	CIA	CIA	ESE		
SEMESTER I													
F	BID 2101	Visual Arts-I	1	2	-	3	3	-	100	-	-	100	-
F	BID 2102	Model Making &Workshop	1	2	-	3	3	-	100	-	-	100	-
CORE	BID 2103	Interior Design History-I	2	-	-	2	2	60	40	-	-	100	3
CORE	BID 2104	Interior Graphics Skills-I(Manual)	1	3	-	4	4	60	40	-	-	100	3
CORE	BID 2151	Materials & Construction Techniques-I	1	3	-	4	4	60	40	-	50	150	3
CORE	BID 2152	Interior Design Studio-I	1	4	-	5	5	60	40	-	50	150	3
AEC	BSAE 2101	Environmental studies	3	1	-	4	4	60	40	-	-	100	3
LAB	BID 2153	General proficiency	-	-	-	-	1	-	100	-	-	100	-
Sub Total							26					900	
SEMESTER II													
F	BID 2201	Visual Arts-II	1	2	-	3	3	-	100	-	-	100	-
F	BID 2202	Model Making &Workshop	1	2	-	3	3	-	100	-	-	100	-
CORE	BID 2203	Interior Design History-II	2	-	-	2	2	60	40	-	-	100	3
CORE	BID 2204	Interior Graphics Skills- II (Manual)	1	3	-	4	4	60	40	-	-	100	3
CORE	BID 2251	Materials & Construction Techniques-II	1	3	-	4	4	60	40	-	50	150	3
CORE	BID 2252	Interior Design Studio-II	1	4	-	5	5	60	40	-	50	150	3
AEC	HSAE 2201	Communication English	3	1	-	4	4	60	40			100	3
LAB	BID 2253	General proficiency	-	-	-	-	1	-	100	-	-	100	-
Sub Total							26					900	

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**SCHOOL OF ARCHITECTURE, BBD UNIVERSITY BACHELOR OF INTERIOR DESIGN
PROGRAMME STRUCTURE (UNDER CBCS)**

Course category	Course Code	Course Name	Teaching				Total Credits	Evaluation					Duration of exam in Hours
								Theory		Lab/Seminar/ viva- voce /Dissertation		Total	
			L	T	P	Total Hou rs		ESE	CIA	CIA	ESE		
SEMESTER III													
CORE	BID 2301	Interior Services-I	4	-	-	4	4	60	40	-	-	100	3
CORE	BID 2303	Interior Design History-III	2	2	-	4	4	60	40	-	-	100	3
CORE	BID 2351	Materials & Construction Techniques-III	1	3	-	4	4	60	40	-	50	150	3
CORE	BID 2352	Interior Design Studio-III	1	7	-	8	8	60	40	-	50	150	3
LAB	BID 2353	Furniture Design & Detailing-I	1	4	-	5	5	-	-	40	60	100	-
LAB	BID 2354	General proficiency	-	-	-	-	1	-	100	-	-	100	-
Sub Total							26					700	
SEMESTER IV													
CORE	BID 2401	Interior Services-II	3	-	-	3	3	60	40	-	-	100	3
CORE	BID 2402	Specifications & Estimating	2	-	-	2	2	60	40	-	-	100	3
CORE	BID 2451	Materials & Construction Techniques-IV	1	3	-	4	4	60	40	-	50	150	3
CORE	BID 2452	Interior Design Studio-IV	1	7	-	8	8	60	40	-	50	150	3
CORE	BID 2453	Furniture Design & Detailing-II	1	3	-	4	4	-	-	40	60	100	-
LAB	BID 2454	Computer Applications-I	-	2	4	6	4	-	-	100	-	100	-
LAB	BID 2455	General proficiency	-	-	-	-	1	-	-	100	-	100	-
Sub Total							26					800	

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**SCHOOL OF ARCHITECTURE, BBD UNIVERSITY BACHELOR OF INTERIOR DESIGN
PROGRAMME STRUCTURE (UNDER CBCS)**

Course category	Course Code	Course Name	Teaching				Total Credits	Evaluation					Duration of exam in Hours
			L	T	P	Total Hours		Theory		Lab/Seminar/ viva- voce /Dissertation		Total	
								ESE	CIA	CIA	ESE		
SEMESTER V													
CORE	BID 2501	Interior Services-III	3	-	-	3	3	60	40	-	-	100	3
F	BID 2502	Research Methodology and case study	2	-	-	2	2	60	40	-	-	100	3
CORE	BID 2551	Interior Working Drawing - I	1	3	-	4	4	60	40	-	50	150	3
CORE	BID 2552	Interior Design Studio-V	1	7	-	8	8	60	40	-	50	150	6
IE	BID 2553	Interior Elective -I	1	3	-	4	4	-	40	-	60	100	-
LAB	BID 2554	Computer Applications-II	0	2	4	6	4	-	-	100	-	100	-
LAB	BID 2555	General proficiency	-	-	-	-	1	-	-	100	-	100	-
Sub Total							26					800	
SEMESTER VI													
CORE	BID 2601	Interior Services-IV	3	-	-	3	3	60	40	-	-	100	3
CORE	BID 2651	Interior Working Drawing-II	1	3	-	4	4	60	40	-	50	150	3
CORE	BID 2652	Interior Design Studio-VI	1	7	-	8	8	60	40	-	50	150	3
IE	BID 2653	Interior Elective-II					4					100	-
LAB	BID 2654	Computer Applications-III	0	2	4	6	4	-	-	100	-	100	-
LAB	BID 2655	Interior Seminar	2	-	-	-	2	-	-	40	60	100	-
LAB	BID 2656	General proficiency	-	-	-	-	1	-	-	100	-	100	-
Sub Total							26					800	

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(IE- I) Interior Elective - I	BID 2553(1)	Arts in interior design	1	3	-	4	4	-	40	-	60	100	-
	BID 2553(2)	Colour Theory and application	1	3	-	4	4	-	40	-	60	100	-
	BID 2553(3)	Contemporay materials in interior	1	3	-	4	4	-	40	-	60	100	-
(IE- II) Interior Elective - II	BID 2653(1)	Interiorscape	1	3	-	4	4	-	40	-	60	100	-
	BID 2653(2)	.Lighting & Interiors	1	3	-	4	4	-	40	-	60	100	-
	BID 2653(3)	Low cost Interiors	1	3	-	4	4	-	40	-	60	100	-
OE – Open Elective		Open Elective	1	3	-	4	4	-	4	-	60	100	-

Course category	Course Code	Course Name	Teaching				Total Credits	Evaluation				Total	Duration of exam in Hours
								Theory		Lab/Seminar/ viva- voce /Dissertation			
			L	T	P	Total Hours							
SEMESTER VII													
LAB	BID 2751	Interior Practical Training	-	25	-	25	25	-	-	280	420	700	-
LAB	BID 2752	General proficiency	-	-	-	-	1	-	-	100	-	100	-
Sub Total			-	-	-		26	-	-	-	-	800	-
SEMESTER VIII													
F	BID 2801	Interior Professional Practice	3	-	-	3	3	60	40	-	-	100	3
CORE	BID 2851	Interior Thesis	0	14	-	14	14	-		160	240	400	-
IE	BID 2852	Elective- III					4					100	-
OE		Open Elective					4					100	-
LAB	BID 2853	General proficiency	-	-	-	-	1	-	-	100	-	100	-
Sub Total							26					800	

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(IE- III) Interior Elective - III	BID 2852(1)	Working Drawing & Construction Detail	1	3	-	4	4	-	40	-	60	100	-
	BID 2852(2)	Furniture Design & Detail	1	3	-	4	4	-	40	-	60	100	-
	BID 2852(3)	Detailed Estimate & Specification	1	3	-	4	4	-	40	-	60	100	-
	BID 2852(4)	Interiorscape	1	3	-	4	4	-	40	-	60	100	-
	BID 2852(5)	Services	1	3	-	4	4	-	40	-	60	100	-

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SEMESTER-I

VISUAL ARTS-I

Scheme of Teaching

L	P/V	S/T	Total
1	--	2	3

B. Interior Design :Semester-I
Subject Code : BID 2101

Scheme of Examination

CIA	ESE	VV	Total
100	-	--	100

Total Credits :03

Exam duration :-

COURSE OBJECTIVE

To encourage the students to develop visual thinking and perception of the fundamentals of all the arts, design and craft work.

LEARNING OUTCOMES

Upon successful completion of this course, students will be able to:

- Introducing philosophy of arts and its appreciation.
- Familiarize the students with the elements and principles of design and composition.
- Training of students for freehand skill and object sketching
- Exploring of various isometric and axonometric views.

CONTENTS

MODULE	COURSE TOPICS
Module 1 Elements of visual composition	Introducing space division & Implementation on different types of composition exercises using basic elements & principles.
Module 2 Principle of visual composition	Composition exercises through interior elements including Values and rules.
Module 3 Freehand skill & object sketching	Exercises to develop free hand skills – i.e. drawing lines, joining points, curves, objects, etc.; Object sketching – still and live.
Module 4 Shading, Rendering, & Coloring	Shading and rendering with different materials.
Module 5 Three Dimensional views	Isometric and Axonometric views

REFERENCES

1. A Visual Dictionary of Interior Architecture and Design
2. Architecture: Form, Space and Order, Francis D.K. Ching
3. Interior Design Illustrated, Francis D.K. Ching
4. Rendering with Pen and Ink, Thames and Hudson
5. Graphic Interiors: Spaces Designed by Graphic Artists, Corina Dean

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MODEL MAKING WORKSHOP-I

Scheme of Teaching

L	P/V	S/T	Total
1	-	2	3

B. Interior Design : Semester-I
Subject Code : BID 2102

Scheme of Examination

CIA	ESE	VV	Total
100	--	--	100

Total Credits : 03
Exam Duration : --

COURSE OBJECTIVE

Introduction the tools and techniques used for making models out of paper, boards, wood, bamboo, fabrics, cloth, glass, plastic sheets, wire, clay etc.

LEARNING OUTCOMES

Upon successful completion of this course, students will be able to:

- Understand the need of making models ,its utility in interior design
- Emphasizing on various materials and techniques used in making of models.
- Focusing on environment friendly models.

CONTENTS

MODULE	COURSE TOPICS
Module 1 Concept of Model Making	Understanding the need for making models; Various types of models like site (contour) models, study models, block models, detailed models, open able models, etc.; Making environment friendly models; Introduction to tools of model making.
Module 2 Model Material	Making models out of clay, paper, cardboard, wood, etc.; Making various elements needed in models like trees, vehicles, human figures, etc.;
Module 3 Model Coloring	Coloring of models wherever required.

REFERENCES

1. 100 Bright Ideas for Color, Sue Rose
2. A Visual Dictionary of Interior Architecture and Design
3. Architecture: Form, Space and Order, Francis D.K. Ching
4. Elements of Architecture, MeissPieree Von
5. Graphic Interiors: Spaces Designed by Graphic Artists, Corina Dean
6. Interior Design Illustrated, Francis D.K. Ching
7. Rendering with Pen and Ink, Thames and Hudson

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INTERIOR DESIGN HISTORY-I

Scheme of Teaching

L	P/V	S/T	Total
2	-	-	2

B. Interior Design :Semester-I
Subject Code : BID 2103

Scheme of Examination

CIA	ESE	VV	Total
40	60	-	100

Total Credits :02
Exam Duration :3Hrs.

COURSE OBJECTIVE

This subject focuses on the developmental aspects of Interior designing as a mode of expression and practice over the time period in different periods of history and civilization.

LEARNING OUTCOMES

Upon successful completion of this course, students will be able to:

- Overview the development of art form and furniture style from ancient India.
- Emphasis on ancient western interiors
- Focus on post industrial revolution of major countries.

CONTENTS

MODULE	COURSE TOPICS
Module 1 Interiors of Ancient India	The Development of art form and furniture styles in sites from ancient India. Examples from Indus valley civilization, Maurya Dynasty, Gupta Dynasty,
Module 2 Western Interiors	Developments in ancient western interiors till the industrial revolution
Module 3 Industrial revolution	Post industrial revolution in major selected countries of the world with changes in building form and interior designing.

REFERENCES

1. Atlas of Western Art History: Artists, Sites and Movements from Ancient Greece to the Modern Age, John Steer and Antony White
2. Interior Design Illustrated, Francis D.K. Ching
3. Responding to Art: Form, Content, & Context, Robert Berrson.
4. Interior Design in the 20th Century, Allen Tate & C. Ray Smith
5. Responding to Art: Form, Content, & Context, Robert Berrson.

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INTERIOR GRAPHICS SKILLS -I (MANUAL)

Scheme of Teaching

L	P/V	S/T	Total
1	-	3	4

B. Interior Design :Semester-I
Subject Code : BID 2104

Scheme of Examination

CIA	ESE	VV	Total
40	60	-	100

Total Credits :04
Exam duration :03hrs

COURSE OBJECTIVE

Introduction of drawing tools and accessories used in drafting, different lettering techniques.

LEARNING OUTCOMES

Upon successful completion of this course, students will be able to:

- Introduce & sett basic Drawing equipment's
- Emphasis on various lettering & dimensioning techniques of drawing as per scale and proportions.
- Study of various solid geometry and various geometric projections of 2d and 3d forms.

CONTENTS

MODULE	COURSE TOPICS
Module 1 Introduction to basis	Introduction and setting up the drawing equipment; Introduction to metric scales; Concept of line, its types, quality, grade, divisions and angles; Drawing polygons, circles, geometrical curves, helix etc .Concept of dimensioning..
Module 2 Lettering and Dimensioning	Free hand and architectural lettering Definition, meaning, concept and use of dimensions on drawings; Various fonts/styles of lettering
Module 3 Orthographic projection	Plan, Elevation & Sections of different shapes & Objects
Module 4 Surface Development	Development of surfaces of simple objects

REFERENCES

1. Interior Design, Ahmed Kasu
2. Engineering Drawing, N.D. Bhatt
3. Architecture: Form, Space and Order, Francis D.K. Ching
4. Interior Design Illustrated, Francis D.K. Ching

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MATERIALS & CONSTRUCTION TECHNIQUES-I

Scheme of Teaching

L	P/V	S/T	Total
1	-	3	4

B. Interior Design : Semester-I
Subject Code : BID 2151

Scheme of Examination

CIA	ESE	VV	Total
40	60	50	150

Total Credits : 04
Exam duration : 03Hrs

COURSE OBJECTIVE

To help the students to understand the architectural properties of traditional and modern buildings

LEARNING OUTCOMES

Upon successful completion of this course, students will be able to:

- Familiarizing building elements & functions .
- Familiarizing students with various tools/equipment used in building construction, the concept of load transfer in framed structures.
- Familiarizing the students with the Vernacular Building materials ,purpose of Lintels and its importance.

CONTENTS

MODULE	COURSE TOPICS
Module 1 Construction Technology	Introduction to elements of building, from foundation to roof; Tools/equipment commonly used in building construction; Concept of load transfer in load bearing and framed structures, their advantages, disadvantages and applicability
Module 2 Vernacular Building Material	Mud, including stabilized earth, clay and clay products, lime, timber, bamboo, stone, etc.; Their properties, uses, defects and preservations.
Module 3 Modern Building Materials	Bricks, sand, cement, mortar, P.C.C., R.C.C. Their properties and uses.
Module 4 Arches	Load transfer in arches; Terms used in arch construction Classification of arches with reference to their shapes, materials, construction techniques and centres Construction of arches in various materials and shapes.
Module 5 Lintels	Purpose of lintels and their importance in making buildings earthquake resistant. Difference between precast and cast-in-situ lintels. Lintels with different materials like timber, stone, steel, R.C.C., etc.

REFERENCES

1. Building Construction, W.B. McKay, Vols. 1-4
2. Building Construction Illustrated, Francis D.K. Ching
3. Building Construction and Materials, M.V. Naik
4. Construction of Buildings, Richard Barry, Vols. 1-5
5. Construction Technology, Chudley, Vols. 1-6
6. Elementary Building Construction, Mitchell

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INTERIOR DESIGN STUDIO-I

Scheme of Teaching

L	P/V	S/T	Total
1	-	4	5

B. Interior Design
Subject Code

:Semester-I
: BID 2152

Scheme of Examination

CIA	ESE	VV	Total
40	60	50	150

Total Credits

05

Total Duration

:03hrs

COURSE OBJECTIVE

Creating general awareness about the general emerging trends in interior design and apprising the students about the role and complexity in interior design with in context to the built environment with special reference to interiors.

LEARNING OUTCOMES

Upon successful completion of this course, students will be able to:

- Introduction and organization of use of form and space and elements ,principles of design
- Understanding of relationship between architectural and interior spaces.
- Analyze the emerging trends professional interior designers.

CONTENTS

MODULE	COURSE TOPICS
Module 1 Introduction to Interiors	Introduction to elements and principles of Interior design, Space Organizations, its use with examples
Module 2 Orientation to Interior Design	Difference between design & decoration, fashion & style, Concept of shell & space (i.e. integrated relationship of architectural and interior spaces). Functional and qualitative aspects of interior environment.
Module 3 Professional Bodies	The emerging role of professional interiordesigners, Training of interior designers related to professional practice aspects. Introduction to professional bodies like IIID etc
Module 4 Space & Interior Design	Elements and principles of design related to aesthetics Functional aspects of interior spaces Understanding interior aesthetics, materials, texture, colour & light in interiordesign.
Module 5 Anthropometric Studies	Anthropometric study of various spaces; Understanding the minimum, optimum & maximum space required for different activities; Studying & analyzing residential spaces like bedroom, drawing room, Dining Room, Kitchen & Toilet with help of design exercises .

REFERENCES

1. Time Saver Standards for Interior Design, Joseph Chiara
2. Neuferts Architects Data, Ernst Neufert
3. Architecture: Form, Space and Order, Francis D.K. Ching
4. Drawing for Interior Design, Drew Plunkett
5. Interior design ,Ahmed Kasu

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Course Category: Ability Enhancement Course (AEC)

Course Title: Environmental Studies

Course Code: BSAE2101/2201

Credits: 4 (L3 T1 P0)

Marks: 100 (ESE – 60, CIA – 40)

Examination: 3 Hours

Course Outcomes:

1. To create awareness and building fundamental knowledge of environment and climatic changes.
2. To learn and know how environmental degradation has taken place.
3. To get aware of various global challenges concerning environment faced by individuals to counter unethical issues.
4. To know the means and ways to prevent, control of pollution and protect environment.
5. To create skill of sustainable development aiming to minimal degradation of environment.
6. To know the efforts taken by national and international level in sustainable development.
7. To create a better understanding of environment and related issues.

Syllabus

Module – I

Environment

Environment: Definition, Scope and importance of Environmental Studies, Need for Public Awareness.

Segments of Environment: Atmosphere, Composition, Structure of atmosphere.

Hydrosphere: Water distribution, Water use and its crisis.

Lithosphere: Structure and composition. Biosphere, Multidisciplinary Nature of Environment. (Book 3: Chapter 1)

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Ecosystems: Introduction, Concept of an Ecosystem, Structure and function of Ecosystem, Energy flow in an Ecosystem, Food chain and food web, Types of Ecosystem (Book 1 and 2: Chapter 2 and 3).

Ecological Pyramids: Definition, Types of Ecological Pyramid (Book 5: Chapter2)

Material cycle: Definition and importance, Nitrogen and carbon cycle (Book 2; Chapter 7)

Environmental Impact Assessment (EIA): Definition and Concept, Elements of EIA, Prediction of impacts and its methodology, Sustainable Development (Book 2 and 3: Chapter-3).

Module – II

Natural resource and its conservation

Natural resources: Natural resources and its associated problems, Renewable & non-renewable natural resources (Book 2: Chapter6),

Forest Resources: Use and over-exploitation, Deforestation, Timber extraction, Mining, Dams and their effects on forests and tribal people (Book 1: Chapter2).

Water Resources: Drinking water quality, Water borne and water induced diseases, Arsenic and fluoride problem in drinking water (Book 3: Chapter 4),

Mineral Resources: Use and exploitation of minerals, Environmental effect of extracting and using mineral resources (Book 3: Chapter4)

Energy resources: Conventional and non-conventional energy sources, Solar energy, Hydro-power energy, Hydrogen energy, Wind energy, Geothermal energy, Biomass-energy, Nuclear energy, Fossil fuels (Book 2; Chapter 7).

Module – III

Environmental Pollution

Environmental pollution: Definition, Pollutants, sources, causes, effects and control measures of air, water, and soil pollution (Book 3 Chapter6).

Noise: Sources of Noise pollution, Measurement of noise, Noise exposure levels and standards. Impact of noise on human health. Noise control and abatement measures. (Book 3 Chapter6)

Waste Water Treatment. Eutrophication, Biomagnifications.

Solid Waste Management: Solid waste sources, characterization, effects and control measures of urban and Industrial waste. (Book1 Chapter 5)

Environment Management System

Module – IV

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Current Environmental Issues and Environment Protection

Current environmental Issues: Population growth, Logistic growth curve equation. Climate change, Global Warming, Acid rain, Ozone layer depletion, Water Crisis-Conservation of water, Rain water harvesting, Biodiversity and its conservation: Natural disaster and its management. Nuclear hazards (Book 3 Chapter 7)

Environment Protection: Legal aspects of Environment Protection, Environment Protection Act, Air(Prevention and Control of Pollution)Act, Water(Prevention and control of Pollution)Act, Role of NGOs in Environment Protection. Environmental Education and Awareness (Book 3 Chapters 8).

Value Education: Environmental Values. Valuing Nature, Valuing cultures, Social Justice, Human heritage, Equitable use of Resources, Common Property Resources (Book1:Chapter 7.5)

Text Books:

1. Text Book for Environmental Studies-Erach Bharucha for University Grant Commision
Bharti Vidyapeeth Institue of Environment Education and Research, Pune.
(Link:<https://www.ugc.ac.in/oldpdf/modelcurriculum/env.pdf>)
2. Environment and Ecology- Agarwal, R.K.2001, Krishna Prakashan Media(Pvt) Ltd.
3. Environment and Ecology- Dhar, D.N., S. Kumar and T. Vaish Vayu Education of India
4. Basics of Environment and Ecology- A. Kaushik and C.P. Kaushik, Second Edition, 2014, New Age International (Pvt) Ltd.
5. Environmental Studies: From Crisis to Cure- R. Rajagopalan, Oxford University Press

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SEMESTER-II

VISUAL ARTS-II

Scheme of Teaching			Total
L	P/V	S/T	
1	-	2	3

B. Interior Design : Semester-II

Subject Code : BID 2201

Scheme of Examination			Total
CIA	ESE	VV	
100	--	--	100

Total Credits : 03

Exam Duration : --

COURSE OBJECTIVE

Encouraging students to develop visual thinking and perception by fundamental of all arts and craftwork. Integrating and translating the senses & feeling into physical form following functionality.

LEARNING OUTCOMES

Upon successful completion of this course, students will be able to:

- Analyze art forms and interior space with reference to visual experiences, elements & principles of design.
- Introduction to hierarchy of color, color wheel etc.
- Aptitude Development of students.

CONTENTS

MODULE	COURSE TOPICS
Module-1 Theory of design	Different types of sketching, Rendering Techniques with respect to interior and exterior views
Module-2 Color Theories	Introduction to hierarchy of color, color wheel, hues, tints and shades, Models of colors.
Module-3 Arts & Graphics skills	Introduction to architectural composition, application of elements and principles of design through 2-D and 3-D compositions; Understanding shapes, forms, solids and voids.
Module-4 Product/Furniture Design (Based on Design Principles)	Aptitude development and Visualization exercises.

REFERENCES

1. 100 Bright Ideas for Color, Sue Rose
2. A Visual Dictionary of Interior Architecture and Design
3. Architecture: Form, Space and Order, Francis D.K. Ching
4. Elements of Architecture, MeissPieree Von

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MODEL MAKING WORKSHOP-II

Scheme of Teaching

L	P/V	S/T	Total
1	-	2	3

B. Interior Design :Semester-II
Subject Code : BID 2202

Scheme of Examination

CIA	ESE	VV	Total
100	--	--	100

Total Credits :03
Exam Duration :--

COURSE OBJECTIVE

The objective is to prepare the students for the construction of study and presentation models in correlation with their interior design studio and basic design course.

LEARNING OUTCOMES

Upon successful completion of this course, students will be able to:

- Understanding the need of making study models.
- Awareness about actual materials, lights, textures etc.; used in model making.
- Making Presentation models of the particular materials

CONTENTS

MODULE	COURSE TOPICS
Module-1 Study Model	Understanding the need of making study models covering aspects of design like volume, play of light and shadow, space and function, proportions, aesthetics, viewpoints etc.; Preparation of study model/s for interior design projects.
Module-2 Presentation Model- I	Making presentation model/s of the design project/s in the interior design studio, with simulation of actual materials, lights, textures etc. To make it as realistic as possible.
Module-3 Presentation Model- II	Making presentation model/s of project/s in the basic design course of the product/furniture designed, with simulation of actual materials, lights, textures etc.; To make it as close to the real one as possible.

REFERENCES

1. Architectural Models
2. Architectural Model Making, Eva Pascua, Pere and Ricard
3. Model Making
4. Rendering with Pen and Ink, Thames and Hudson

Q.1

Model

Q.2
Q.3
Q.4
Q.5
Q.6
Q.7
Q.8
Q.9
Q.10

INTERIOR DESIGN HISTORY -II

Scheme of Teaching

L	P/V	S/T	Total
2	-	-	2

B. Interior Design :Semester-II

Subject Code : BID 2203

Scheme of Examination

CIA	ESE	VV	Total
40	60	--	100

Total Credits 02

Exam Duration :03hrs

COURSE OBJECTIVE

The objective of the course is to introduce the students to the changes that occurred in the past.

LEARNING OUTCOMES

Upon successful completion of this course, students will be able to:

- Understanding of gradual change from past to modern period.
- Emphasis on new styles in interiors of new styles of modern century.
- Understanding of the modern movement.

CONTENTS

MODULE	COURSE TOPICS
Module-1 Mid 19th century	A change of taste: Victorian and Tuscan styles. Period – Mid 19th Century
Module-2 Late 19th century	The search for a new style: European and American. Period – Late 19th Century.
Module-3 Early 20th century	The Modern Movement. Period – Early 20th Century.

REFERENCES

1. Atlas of Western Art History: Artists, Sites and Movements from Ancient Greece to the Modern Age, John Steer and Antony White
2. Interior Design Illustrated, Francis D.K. Ching
3. Interior Design, Ahmed Kasu
4. Indian Interior, Angelika Taschen
5. Interior Design in the 20th Century, Allen Tate & C. Ray Smith
6. Responding to Art: Form, Content, & Context, Robert Berrson.

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INTERIOR GRAPHICS SKILLS -II (MANUAL)

Scheme of Teaching

L	P/V	S/T	Total
1	-	3	4

B. Interior Design
Subject Code

:Semester-II
: BID 2204

Scheme of Examination

S	T	VV	Total
40	60	--	100

Total Credits

04

Exam Duration

:03hrs

COURSE OBJECTIVE

To introduce different drafting techniques to produce 3D drawings of various objects and spaces as well as use of light, shade & shadow. To learn three dimensional presentations.

LEARNING OUTCOMES

Upon successful completion of this course, students will be able to:

- Understanding about the perspective drawings.
- Introduction and drawing of shades & shadows, in 2-D and 3-D drawings
- Understanding of Perspectives and Views

CONTENTS

MODULE	COURSE TOPICS
Module-1 Views	Isometric, Axonometric & Oblique Views
Module-2 One Point perspective	Introduction and drawing of one point perspective of given objects.
Module-3 Two point perspective	Introduction and drawing of two-point perspective of given objects.
Module-4 Perspective by measuring point method	Introduction and drawing of perspective by measuring point method of given objects
Module-5 Shades & Shadows	Introduction and drawing of shades & shadows, in 2-D and 3-D drawings.

REFERENCES

1. Architecture: Form, Space and Order, Francis D.K. Ching
2. Engineering Drawing, N.D. Bhatt
3. Interior Design Illustrated, Francis D.K. Ching
4. Interior Design, Ahmed Kasu
5. Perspective and Sciography, Shankar Mulik

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MATERIAL & CONSTRUCTION TECHNIQUES-II

Scheme of Teaching

L	P/V	S/T	Total
1	--	3	4

B. Interior Design : Semester-II
Subject Code : BID 2251

Scheme of Examination

CIA	ESE	VV	Total
40	60	50	150

Total Credits : 04
Exam Duration : 03hrs

COURSE OBJECTIVE

To introduce the various materials used for floor, door, window, wall and ceiling finishes, sound and heat insulating materials, etc.

LEARNING OUTCOMES

Upon successful completion of this course, students will be able to:

- Application of various materials used for floors, wall & ceiling
- Understanding of making of door and windows in different materials.
- Familiarizing with furniture – especially built-in furniture.
- Understanding the joinery details of doors and windows; Learning about fastenings and fixtures used in doors and windows

CONTENTS

MODULE	COURSE TOPICS
Module-1 Material for flooring (Interior Floor Finishes)	Study of flooring materials – both fixed and movable/flexible; Their advantages, disadvantages, application and fixing methods
Module-2 Material for wall (Interior wall finishes)	Study of wall claddings and finishes, their advantages, disadvantages, uses and application methods.
Module-3 Ceilings	Study of different types of ceilings (fixed, suspended etc.), materials used for different types of ceilings, including heat and sound insulating materials
Module-4 Doors & Windows	Functions of doors & windows; Terminology used in doors and windows; Study of various types of doors & windows and their uses; Understanding the joinery details of doors and windows; Learning about fastenings and fixtures used in doors and windows
Module-5 Built in furniture	Understanding built-in, fixed, movable, modular furniture, etc.; Advantages, disadvantages and applications of these; Construction of built-in residential furniture

REFERENCES

1. Building Construction, W.B. McKay, Vols. 1-4
2. Building Construction Illustrated, Francis D.K. Ching
3. Building Construction and Materials, M.V. Naik
4. Construction of Buildings, Richard Barry, Vols. 1-5
5. Construction Technology, Chudley, Vols. 1-6

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INTERIOR DESIGN STUDIO-II

Scheme of Teaching

L	P/V	S/T	Total
1	-	4	5

B. Interior Design : Semester-II
Subject Code : BID 2252

Scheme of Examination

CIA	ESE	VV	Total
40	60	50	150

Total Credits : 05
Exam Duration : 03hrs

COURSE OBJECTIVE

Familiarize the students with designing process, aspects & constraints to be considered while designing of interior projects especially of residential type that would include spatial, functional, material, & visual experience aspects

LEARNING OUTCOMES

Upon successful completion of this course, students will be able to:

- Understanding the meaning & scope of residential interior design .
- Analyzing the site and drawing inferences for use at the designing stage
- Presentation of design with the help of given drawing requirements, format and model
- Emphasize upon conceptualizing a design solution based on studies and analyses

CONTENTS

MODULE	COURSE TOPICS
Module-1 Introduction to residential Interior design	Introduction to residential interiors through case studies, analyzing them and drawing inferences from the same. Understanding the functional requirements of the client and thereby learning to prepare a client brief.
Module-2 Site Study & Analysis	Studying the given site and evaluating it on different parameters and issues including interior space & structure, aesthetical, functional, psychological, etc Analyzing the site and drawing inferences for use at the designing stage
Module-3 Conceptualizing of design	Conceptualizing a design solution based on the above studies and analyses; Primarily ideas to be expressed with freehand drawings / rough sketches initially and then proper scaled drawings are to be made.
Module-4 Presentation of Design	Presentation of design with the help of given drawing requirements in form of Interior Floor plans, Sections, interior views etc
Module-5 Presentation of Design	Final presentation drawing with views and model

REFERENCES

1. Architecture: Form, Space and Order, Francis D.K. Ching
2. Time Saver Standards for Interior Design, Joseph Chiara
3. Drawing for Interior Design, Drew Plunkett
4. Elements of Space Making, Yatin Pandya
5. Neuferts Architects Data, Ernst Neufert
6. Interior design, Ahmed Kasu

Ability Enhancement Course

Course Title: Communicative English

Course Code: HSAE 2101/2201

Course Category: AEC

Credit: 4 (L3 T1 P0)

Marks: 100 (ESE 60, CIA 40)

Exam: 3 Hours

Course Objectives:

- To make the students aware of the fundamentals of communication and its types and various levels;
- To train them techniques and methods of vocabulary building and paragraphs writing and make communication effective and impressive;
- To groom them expert in oral as well as written communication with the knowledge of various forms and formats;
- To make them understand the role of Nonverbal (Kinesics) in Communication
- To enhance their capacity for comprehension, creative and critical thinking;

Learning Outcome:

1. The successful completion of the course students will be able to;
2. Understand the meaning of communication and its various applications;
3. Form and apply suitable vocabulary, phrases and sentences in communicating variety of situations;
4. Able to use variety of forms/formats and techniques required in different levels of communication;
5. Maintain congruity between verbal and nonverbal communication;
6. Able to comprehend and clarify the intricacies of art of communication.

Course Contents:

Module	Course Topics	Total Hours	Credits
I	Fundamentals of Communication: (B1, Ch. 1) Communication: Definition, Nature, Origin, Scope, Features and Process of communication; Types of Communication: Verbal and Non-Verbal, Formal and Informal, Oral & Written Communication and technical and general Communication; Levels of Communication: Extra-personal, Intra-personal, Interpersonal, organisational, Grapevine, Group and Mass Communication; Language as a Tool of Communication; The Flow of Communication: Vertical (Upward and Downward), Lateral or Horizontal; Non- Conventional types	12	1

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	of Communication: Assertive, Aggressive and Passive Aggressive. (B1, Ch. 2) Barriers to Communication: definition; types: Physical, Semantic, Psychological barriers or Extra-personal, Intra-personal, Interpersonal, and Organizational barriers, How to Overcome these Barriers;		
II	Creativities in Communication (B1, Ch. 17) Word Formation: Affixation, Compounding, Blending, Conversion, Enriching Vocabulary: Synonyms, Antonyms, Homophones, Homonyms, One word Substitution, Foreign Words & Phrases; (B1, Ch. 10) Forms of Writing and Techniques: Note taking, Reviewing, Interpreting, Paraphrasing and (B1, Ch. 13) Précis Writing, (B1, Ch. 12) Pre-Requisites of Good Sentences; Essentials of Good Sentences, Common Errors to be avoided (B2, Ch. 20) Requisites of Good Paragraph Writing: Unity, Coherence, Clarity, Proper Length, Emphasis, Logical Sequencing, Development of Paragraphs; Methods of Writing: Inductive, Deductive, Chronological, Spatial, Comparison & Contrast, Question to Answer, Interruptive, Illustrative;	10	1
III	Business Communication (B1, Ch. 15) Principles, 7 C's of technical Communication; Formats of Business Letters; Types of Letter: Sales & Credit Letters, Inquiry, Quotation & Reply Letters, Letters for Placing & Fulfilling Orders, Complaint, Claim & Adjustment Letters; Email Job Letters: Cover letters, Resume (B1, Ch. 13) Reports: Definition, Significance, Features & Purpose, Types: Formal, Informal, Periodic, Informational, Analytical; Formats & Structures of Reports: Letter Format, Memo Format, Printed Format, Manuscript Format; Writing of a Report Structure of Manuscript Format; (B1, Ch. 14) Proposals: Definition, Significance, Features & Purpose; Types & Structures: Solicited & Unsolicited, Business, Research, Technical; Structure of Technical Proposals.	12	1
IV	(B1, Ch. 7) Presentation Strategies: Purpose, Scope, Understanding Audience & Locale, Organizing contents,	16	1








Audio-Visual Aids; Modes of Presentation: Manuscript, Impromptu, Memorization, Extempore; Non-Verbal Dimensions of Communication: Kinesics: Gesture, Posture, Facial Expression, Eye Contact; Oculecsis, Paralinguistics, Proxemics, Artifacts, Chronemics, Haptics, Olfactics and Chromatics. Ice-Breaking. Group Discussion and its Etiquettes, Interviews(B1, Ch. 6) Telephone Etiquettes, Dining Etiquettes.(B1, Ch. 8)		
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Text books:

1. Minakshi Raman et al. Technical Communication, New Delhi: Oxford University Press, 2014.
2. Ashraf Rizvi, Effective Technical Communication, Chennai: Tata McGraw Hill, 2018.

Reference Books:

1. Singh, R.P. Functional Skills in Language & Literature, New Delhi: Rupa, 2007.
2. Sharma, Sangeeta et al. Communication Skills for Engineers and Scientists, New Delhi: PHI, New Delhi, 2009.
3. Shukla, Aditya. Professional Communication, Pune: Technical Publications, 2013.

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SEMESTER-III

INTERIOR SERVICES-I

Water Supply

Scheme of Teaching

L	P/V	S/T	Total
4	--	--	4

B. Interior Design : Semester-III

Subject Code : BID 2301

Scheme of Examination

CIA	ESE	VV	Total
40	60	--	100

Total Credits :04

Exam duration : 03Hrs

COURSE OBJECTIVE

To enable the students to understand the fundamentals of services in interiors and apply the different Plumbing and sanitary fittings and fixtures in drawings.

LEARNING OUTCOMES

Around successful completion of this course, students will be able to:

- Understand the fundamentals of services in interior design
- Study various methods and materials for plumbing
- Preparation of Water supply and sanitary layout

CONTENTS

MODULE	COURSE TOPICS
Module 1 Introduction & Terminologies	Introduction to Water supply and Sanitary services, terminologies used in water supply and sanitary services. Sources of water; impurities, requirements of water supply for different building types- storage, distribution. Sources and methods of water supply and distribution; schematic making of an overhead water reservoir for a town/city
Module 2 Water Supply & Distribution	Supply of hot and cold water to a residential building and its distribution – Fittings and fixtures used in system, Calculating water requirements and designing storage tanks
Module 3 Sanitary services and Fixtures & Rain water disposal	Study of sanitary fitting / appliances –and their use in disposal–system. Single pipe system, Two pipe system. Purpose and principles, collection and conveyance of waste matter.
Module 4 Layout	Preparing internal piping lay-out for toilets, kitchen utility areas. Preparing external piping layouts for water supply and drainage system

REFERENCES

1. Water Supply Layouts and Sanitation, Shah
2. Interior design, Ahmed Kasu
3. N.B.C India
4. Building Construction and material, B.C Punamia
5. S.C Rangwala, "Water Supply and sanitary Engineering"
6. Manual on sewerage and sewerage treatment, CPHEEO, Ministry of works and housing, New Delhi, 1990

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INTERIOR DESIGN HISTORY-III

Scheme of Teaching

L	P/V	S/T	Total
2	--	1	3

B. Interior Design

:Semester-III

Subject Code

: BID 2302

Scheme of Examination

CIA	ESE	VV	Total
40	60	--	100

Total Credits

:03

Exam duration

: 03Hrs

COURSE OBJECTIVE

To introduce the students to the changes that occurred in the past and familiarize them with the different cultures, societies & their style of living, which affected the internal part of their buildings, over different periods.

LEARNING OUTCOMES

Around successful completion of this course, students will be able to:

- Get students learned about the different cultures that occurred in the past
- Effect of social and cultural life styles of living to the internal part of the building
- Understanding the work & Philosophies of great Masters.

CONTENTS

MODULE	COURSE TOPICS
Module 1 Gothic, Renaissance, Baroque period	Basic overview of Interior Layouts, Interior design elements like buttresses, rose window, gargoyles, flamboyant, mosaic patterns, stained glass
Module 2 Neoclassical movement	Art & Craft movement, Modernism and post modernism
Module 3 High Tech Design	Study of characteristic features of Shabby Chic, Retro, Modern, De Constructivism, Minimalism, Contemporary & other Styles/Movements in interior design.
Module 4 Interior Designers	Study the work & philosophies of the Great Masters of interior design across the globe and in India.

REFERENCES

1. Atlas of Western Art History: Artists, Sites and Movements from Ancient Greece to the Modern Age, John Steer and Antony White
2. Interior Design Illustrated, Francis D.K. Ching
3. Interior design, Ahmed Kasu

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MATERIAL CONSTRUCTION & TECHNIQUES-III

Scheme of Teaching

L	P/V	S/T	Total
1	--	3	4

Scheme of Examination

CIA	ESE	VV	Total
40	60	50	150

B. Interior Design

Subject Code

:Semester-III

: BID 2351

Total Credits

:04

Exam duration

: 03Hrs

COURSE OBJECTIVE

To enable the students to understand and experience various types of construction materials & design of interior components that are built on site, with combination of various materials. Focus on partitions and built in furniture's.

LEARNING OUTCOMES

Around successful completion of this course, students will be able to:

- Learn about different materials used in construction and design of interior components
- Students would be able to study various types of partitions and built in furniture's as major part of interior design
- Understand different types of built-in furniture's used in interiors.

CONTENTS

MODULE	COURSE TOPICS
Module 1 Interior Materials	Interior construction materials like steel, aluminum, wood, stone, application areas and methods of use; Preconstruction & post construction precautions Market survey of above material –sizes, specifications & rates
Module 2 Mezzanine and intermediate floors and landings	Design and construction of mezzanine floors, intermediate floors and landings with the use of various construction materials for interior purpose, their design parameters, and detailing.
Module 3 Partitions	Function of partition, uses & its application, Design and construction of various types of partitions in interior spaces with use of various materials example wooden, Aluminium, Glass and others Fastening and fixtures used in partitions along with their design limitations, design feasibility, functional aspects, etc.
Module 4 Built-in Furniture	Understanding built-in, fixed, movable, modular furniture, etc.; Advantages, disadvantages and applications of these; Construction of built-in furniture for hospitality spaces Details of office furnitures, Storage spaces in various types of building.

REFERENCES

1. Building Construction, W.B. McKay, Vols. 1-4
2. Building Construction Illustrated, Francis D.K. Ching
3. Construction of Buildings, Richard Barry, Vols. 1-5
4. Construction Technology, Chudley, Vols. 1-6

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INTERIOR DESIGN STUDIO-III

Scheme of Teaching

L	P/V	S/T	Total
1	--	7	8

Schen of Ex amination

CIA	ESE	VV	Total
40	60	50	150

B. Interior Design :Semester-III

Subject Code : BID 2352

Total Credits	08
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Exam duration : 03Hrs

COURSE OBJECTIVE

To introduce the basics of designing for Retail interiors including Universal design for disabled people.

LEARNING OUTCOMES

Around successful completion of this course, students will be able to:

- Concentrates on larger scale spaces with an emphasis on planning commercial spaces.
- Develop visually literate students who are proficient at analytical thinking, conceptualization and the problem-inquiry, solution cycle.
- Examine the connection between abstract design principles and the physical and visual environments.

CONTENTS

MODULE	COURSE TOPICS
Module 1 Commercial spaces Shops	Planning for retail activity using anthropometrics , Types of layout for shops, Modular units. Materials used in counters, shelves, worktops, their comparative study. Lighting & colour scheme – natural & artificial light.
Module 2 Commercial spaces Retail Kiosk	Designing of a small retail kiosk or shop inside a Commercial building. Schematic design showing plan, elevations, section and rendering of drawings. Preparation of conceptual 2D and 3D sketches.
Module 3 Commercial spaces	Designing of display units, design of boutiques, showrooms, small cafeteria, ATM Chambers including furniture details Concepts of modern day Retail interiors with focus on different themes, designer furniture, materials & finishes colour, texture & pattern.
Module 4 Shopping malls	Designing of Product display unit, windows/internal displays/hierarchy of product display/power of visual communication/graphics Exhibition spaces – display for exhibition Lighting design for commercial spaces – task/display/atmospheric/focal lighting Coloring commercial spaces – coding/decoding/visual communication Design of commercial Environments in Malls, lounges /outlets ,Shopping Arcades Etc. with special focus on atriums,lobby,corridors and cutouts accompanied by complete drawings of interior design including furniture layout.
Module 5 Presentation of design	Presentation of sheets including completely rendered drawings with sectional elevations ,surface developments ,conceptual sketches,detailed model with moot board.

REFERENCES

1. Architecture: Form, Space and Order, Francis D.K. Ching
2. Architectural Graphic Standards, Ramsey Sleeper
3. Drawing for Interior Design, Drew Plunkett
4. Neuferts Architects Data, Ernst Neufert
5. Time Saver Standards for Interior Design, Joseph C

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Architecture: Form, Space and Order, Francis D.K. Ching
Architectural Graphic Standards, Ramsey Sleeper
Drawing for Interior Design, Drew Plunkett
Neuferts Architects Data, Ernst Neufert
Time Saver Standards for Interior Design, Joseph C

FURNITURE DESIGN AND DETAILING-I

Scheme of Teaching

L	P/V	S/T	Total
1	--	4	5

B. Interior Design :Semester-III
Subject Code : BID 2353

Scheme of Examination

CIA	ESE	VV	Total
40	--	60	100

Total Credits :05
Exam duration : --

COURSE OBJECTIVE

To enable the students to understand the design attributes & the construction techniques and basics of furniture making in interior works

LEARNING OUTCOMES

Around successful completion of this course, students will be able to:

- Be able to understand the construction techniques and process of basic furniture making in interiorworks
- Be able to focus on customized and made to order furniture used as latest trends in interiors.
- Get aware of the furniture designing which is a important part of interior design.

CONTENTS

MODULE	COURSE TOPICS
Module 1 Analyzing furniture	Analyzing furniture forms and designing furniture forms scientifically based on ergonomics, material design and working parameters and visual perception of furniture as a single form and as a system in a given interior space.
Module 2 Measurement drawing	Measurement drawing of a piece of a furniture-plan, elevation, sections and detail drawings on proper scale. Design of a simple object having some moving components like a folding stool or chair. History of furniture from early days to industrial revolution.
Module 3 Furniture Style	Design and understand Post Independence furniture style.
Module 4 Hands-on/Workshop experience	Preparation of full size or scaled models of selected furniture items in workshop as per the prepared/given drawings and specified materials or simulation of materials upto a considerable & acceptable limit

REFERENCES

1. Neuferts Architects Data , Ernst Neufert
2. Time Saver Standards for Interior Design, Joseph Chiara
3. A Visual Dictionary of Architecture, Francis D.K. Ching
4. Creative Interiors (Design of Enclosed Space), Shashi Jain
5. Interior design illustrated , Francis D.K. Ching

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SEMESTER-IV

INTERIOR SERVICES-II (Electrical & Lighting)

Scheme of Teaching

L	P/V	S/T	Total
3	--	--	3

B. Interior Design :Semester-IV

Subject Code : BID 2401

Scheme of Examination

CIA	ESE	VV	Total
40	60	--	100

Total Credits :03

Exam duration : 03Hrs

COURSE OBJECTIVE

Encouraging the students to understand the fundamental services used in interiors of any building beginning with electrical as one of the services. Furthermore, familiarizing students about various methods and material used in electrical layout .

LEARNING OUTCOMES

Around successful completion of this course, students will be able to:

- Learn about various methods and materials used in electrical layout
- Different varieties of fittings and fixtures used in interior lighting
- Students could understand preparation of writing electrical layout

CONTENTS

MODULE	COURSE TOPICS
Module 1 Introduction and terminologies of electricity	Introduction to electricity – its generation, transmission and supply; Terminologies used in electrical supply – ampere, circuit, conductor, volt, watt, single phase, three phase, etc
Module 2 Electricity supply & Distribution	Different wires and types of wiring systems – open batten, conduits and casing, their advantages and disadvantages.
Module 3 Lighting & lighting fixtures	Purpose of lighting – ambient, task and accent lighting; Forms of lighting sources – point, linear, planar and 3D sources, Lighting types – incandescent, fluorescent, CFLs, LEDs, halogen, etc.; Methods of lighting – direct & indirect, up lighting, down lighting, combination of up & down lighting, concealed lighting, etc.
Module 4 Electrical fittings & Load Calculations	Electrical outlets 5/6 Amp, 15/16 Amp, switch boards, switches, sockets, etc.; Precautions & thumb rules for the provision of switch boards, etc. Electrical appliances and their power consumption; Preparation of electrical layouts.

REFERENCES

1. Architecture: Form, Space and Order, Francis D.K. Ching
2. Interior design, Ahmed Kasu
3. N.B.C India
4. Building Construction and material, B.C Punamia
5. Building Construction and material, Rangwalla

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SPECIFICATION & ESTIMATING

Scheme of Teaching

L	P/V	S/T	Total
2	--	--	2

B. Interior Design :Semester-IV

Subject Code : BID 2402

Scheme of Examination

CIA	ESE	VV	Total
40	60	--	100

Total Credits 02

Exam duration : 03Hrs

COURSE OBJECTIVE

To enable students to specify material to work out rate analysis and prepare estimates.

LEARNING OUTCOMES

Around successful completion of this course, students will be able to:

- Learn about different types of material used in interiors of any space
- Work out rate analysis and prepare estimates of the project
- Learn different types of tenders

CONTENTS

MODULE	COURSE TOPICS
Module 1 Introduction to Specification	Definition, importance and uses of specification – principles and practice; method of writing specification; form and sequence of clauses, calculation of Interior Space
Module 2 Material Specification	Writing detailed specification for various common Interior materials for example, timber, wood products, glass, paints, wall finishes, furniture, lights & other decorative materials etc
Module 3 Specification of simple construction	Writing detailed specification for various interior construction works like Wall paneling, Wall cladding, Floor finishes, False Ceiling, Wall partitions (metal/glass), Other types of ceiling finishes etc.
Module 4 Estimation, Types of estimation	Introduction to cost estimation and definitions of terms related to estimates Types of estimates, abstract and detailed estimates; detail estimates – methods of estimating; taking out of various items Preparation of bill of quantities – use of schedule of rates; analysis of rate and break up of material requirements
Module 5 Cost accountancy, Rate Analysis	Introduction to cost accountancy and book keeping, Principles of analysis of rates, rates of labour and materials, rate analysis in different Interior works.

REFERENCES

1. Estimating and Costing in Civil Engineering: B. N. Dutta
2. Estimation, Costing & valuation by M. Chakraborty.
3. Civil Engineering Handbook – P.N. Khanna
4. R.C.C. Design – Khurmi, Punmia, Sushil Kumar

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MATERIAL CONSTRUCTION & TECHNIQUES-IV

Scheme of Teaching

L	P/V	S/T	Total
1	--	3	4

B. Interior Design : Semester-IV
Subject Code : BID 2451

Scheme of Examination

CIA	ESE	VV	Total
40	60	50	150

Total Credits : 04
Exam duration : 03Hrs

COURSE OBJECTIVE

To enable the students to understand and experience various types of interior floor finishes and their designing of interior components that are built on site. Also focus on vertical stacking of building in interior aspects.

LEARNING OUTCOMES

Around successful completion of this course, students will be able to:

- Learn about different materials used for flooring used as floor finishes used in interiors.
- Understand the different varieties of vertical connectivity used with different materials used in interiors.
- Learn different patterns of designs of parapets and railing with there specifications.

CONTENTS

MODULE	COURSE TOPICS
Module 1 Materials for Flooring (Interior Floor Finishes)	Study of flooring materials Their advantages, disadvantages, application and fixing methods.
Module 2 Vertical components connecting the building	Study and designing of vertical connecting components namely as Ramps, etc. with use of various construction materials for interior purpose, their design parameters depending on quantum of use, feasibility, functionality, aesthetics etc.
Module 3 Vertical Component (Continued)	Study of different types of stairs, different types of materials used for finishes, their advantages, disadvantages, and application methods. Introducing lifts with their materials & specifications
Module 4 Parapets and Railings	Study of various types of parapets and Railings, different types of materials used for railings and parapets , varieties of railing designs used for railings in interiors along with their design thumb rules, execution aspects, aesthetic qualities, etc.

REFERENCES

1. Building Construction, W.B. McKay, Vols. 1-4
2. Building Construction Illustrated, Francis D.K. Ching
3. Construction of Buildings, Richard Barry, Vols. 1-5
4. Construction Technology, Chudley, Vols. 1-6

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INTERIOR DESIGN STUDIO-IV

Scheme of Teaching

L	P/V	S/T	Total
1	--	7	8

B. Interior Design :Semester-IV
Subject Code : BID 2452

Scheme of Examination

CIA	ESE	VV	Total
40	60	50	150

Total Credits 08
Exam duration : 03Hrs

COURSE OBJECTIVE

To introduce the basics of designing for office interiors & residential areas and to develop skills required for the same

LEARNING OUTCOMES

Around successful completion of this course, students will be able to:

- Emphasis on planning office spaces.
- Develop visually literate students who are proficient at analytical thinking, conceptualization and the problem-inquiry, solution cycle.
- Examines the connection between abstract design principles and the physical and visual environments.
- Integration of all interior schemes line, colour, furniture, flooring, wall covering etc

CONTENTS

MODULE	COURSE TOPICS
Module 1 Study & Research Residential spaces	Literature and Case studies of existing Theme base residences (Duplex, apartments, Villa, Bungalow, Suits), Market study of and interior materials and finishes commonly used in Residential designing. Report/Sheet submission containing all the details of the study
Module 2 Furniture detailing	Furniture layout of an existing house/ mono-cellular unit for a built up space of up to 100sqm with all the required services in terms of uses such as electrical, water supply etc. integrating the same with furniture layout and its representation / rendering of required drawings.
Module 3 Detailed Drawings	Preparing detailed drawings showing Floor Finish Plan, Reflected Ceiling Plans and Interior Elevations. Preparing a physical model showing the interiors of the House. Preparing a 3D model in Autocad/ Sketch-up
Module 4 Complete Residential Unit	Design the interiors for a professional house with a floor area of approx. 200sq.m. – 250sq.m. in a two storey structure with an open courtyard on a plot size of minimum 200sqm. Preparing detailed Furniture layout, Floor Finish Plan, Reflected Ceiling Plans and Interior Elevations and rendering of drawings on proposed residential plans.
Module 5 Model Making & Materials listing	Preparing Model of the house showing interiors and other necessary details and preparing a list of materials.

REFERENCES

1. Architecture: Form, Space and Order, Francis D.K. Ching
2. Architectural Graphic Standards, Ramsey Sleeper
3. Neuferts Architects Data, Ernst Neufert
4. Time Saver Standards for Interior Design, Joseph Chiara

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FURNITURE DESIGN AND DETAILING-II

Scheme of Teaching

L	P/V	S/T	Total
1	--	3	4

B. Interior Design : Semester-IV
Subject Code : BID 2453

Scheme of Examination

CIA	ESE	VV	Total
40	--	60	100

Total Credits : 04
Exam duration : --

COURSE OBJECTIVE

To enable the students to understand the design attributes & the construction techniques and basics of furniture making in interior works

LEARNING OUTCOMES

Around successful completion of this course, students will be able to:

1. Be able to familiarize students with designing of furniture for hospitality spaces
2. Be able to learn use of materials and other details of joinery works
3. Get knowledge about an existing piece of furniture in its functional and technical & carpentry aspects.

CONTENTS

MODULE	COURSE TOPICS
Module 1 Ergonomics & Anthropometry	Designing and drawing customized basic furniture of various types chiefly for residential use, considering design aspects like ergonomics, functionality, material application, constructability, aesthetics etc
Module 2 Detailing furniture	Understanding the necessity, use & applications of designed details for customized considering design aspects like ergonomics, functionality, material use, workability, aesthetics etc
Module 3 Execution/Shop drawings of furniture	Preparing execution/shop drawings of furniture, down to the last detail, specifying materials, construction process and including pre & post construction precautions.
Module 4 Modular Aspect	Modular aspect and approach towards all types of furniture, cost criteria of design furniture for lower income group in the society.

REFERENCES

1. Neuferts Architects Data, Ernst Neufert
2. Time Saver Standards for Interior Design, Joseph Chiara
3. A Visual Dictionary of Architecture, Francis D.K. Ching
4. Creative Interiors (Design of Enclosed Space), Shashi Jain
5. Interior design illustrated, Francis D.K. Ching

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COMPUTER APPLICATIONS-I

Scheme of Teaching

L	P/V	S/T	Total
0	02	04	06

Scheme of Examination

CIA	ESE	VV	Total
--	--	100	100

B. Interior Design :Semester-IV

Subject Code : BID 2454

Total Credits 04

Exam duration : --

COURSE OBJECTIVE

To enable the students to understand the electronic /computer as a medium presentation and documentation of various software.

LEARNING OUTCOMES

Around successful completion of this course, students will be able to:

- Be able to learn presentation of drawing in digital forms using various softwares.
- Introducing various softwares for presenting interiors views
- Presentation and Handling of Drawings with softwares.

CONTENTSs

MODULE	COURSE TOPICS
Module 1 Introduction	Introduction to popular and most suitable software for the students, that are used for drawing, presentation & documentation along with their types, configurations, system requirements, uses and applications & limitations; New developments on the horizon
Module 2 Software for documentation and presentation	Introduction and primary application of software for documentation along with typing, composing graphics, inserting graphs, images, tables etc.; Formatting and conditional formatting, computing etc.; Activities along with audio visual presentation , slide shows, movie editing etc. (Suggested current software like MS Office, Word, Excel, Power point, Corel draw, Photoshop etc.).
Module 3 Software's for drawings	Introduction and commands under various menu, task and tool bars and their application to draw computer aided drawing and saving soft copy file of objects given, with use of appropriate input device
Module 4 Drawing with software	Preparing 2D drawing of given project using software along with use of appropriate sequence set and input method of commands with reference to relevant softwares like Autocad etc.
Module 5 Presentation of Drawing and Handling of Drawing with software	Presentation of drawing of given project using software along with use of appropriate sequence set and input and output commands with reference to relevant software. Handling of software with reference to license copy; Saving and backing up files; Updating; Importing and exporting from and to appropriate addresses and file types; Datastorage & data transfer; care & precautions to be taken. Handling of hardware with reference to battery backup, maintenance, servicing, cleaning, ordering & refilling cartirages; Care & precautions to be taken etc.

REFERENCES

1. Mastering Autocad 2016, George Omura
2. Autodesk AutoCAD 2016 Fundamentals, Elise Moss

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SEMESTER-V

INTERIOR SERVICES-III (Acoustical systems)

Scheme of Teaching

L	P/V	S/T	Total
3	--	--	3

B. Interior Design :Semester-V
Subject Code : BID 2501

Scheme of Examination

CIA	ESE	VV	Total
40	60	--	100

Total Credits :03
Exam duration : 03Hrs

COURSE OBJECTIVE

To acquaint students about acoustical requirements and consideration for building design right from residential to the theatre type of building.

LEARNING OUTCOMES

Around successful completion of this course, students will be able to:

- Understand the different types of acoustic materials used in various types
- Learn the acoustical design
- Learn various noise control systems various types of building.

CONTENTS

MODULE	COURSE TOPICS
Module 1 Terminology in Acoustics	Sound and its properties, audible sound, intensity and loudness, frequency and pitch, quality Reflection, absorption, transmission, diffusion, diffraction of sound ; Common acoustical defects: Echo, sound-foci, dead spots, sound shadows, resonance, insufficient loudness, external noise, reverberation and reverberation time.
Module 2 Acoustic materials	Sound absorbing materials and their applications– description and characteristics, types of absorbents and reflectors and their application, Market survey and sample collection.
Module 3 Acoustical design case studies	Study of existing designs to understand shapes/spaces and integration of acoustical equipment in the design.
Module 4 Noise control	Environmental noise control: noise sources, airborne and structure-borne noise, transmission of noise, methods of environmental noise control, control of mechanical noise and vibrations, General idea of sound insulation. Noise control in specific types of buildings like – auditoriums, residential buildings, hotels, school, hospitals, offices, libraries
Module 5 Design exercise	Acoustical design or case study of existing building such as auditorium, recording studio, theatre, cinema halls, hospitals or a multistory office building

REFERENCES

1. N.B.C India
2. Building Construction - B.C. Punmia
3. Building Construction and Materials – Gurcharan Singh
4. Fundamentals of acoustic by Kinsler, Lawrence E and others
5. Neuferts Architects Data, Ernst Neufert

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RESEARCH METHODOLOGY & CASE STUDY

Scheme of Teaching

L	P/V	S/T	Total
2	--	--	2

B. Interior Design : Semester-V
Subject Code : BID 2502

Scheme of Examination

CIA	ESE	VV	Total
40	60	--	100

Total Credits : 02
Exam duration : 03Hrs

COURSE OBJECTIVE

Understanding basic principles of any research with special reference to architectural research and applications.

LEARNING OUTCOMES

- To understand the basic methodology of writing technical paper.
- To be able to write a technical paper of about 2000 words
- To Utilize the sources to reach to the desired objectives.

CONTENTS

MODULE	COURSE TOPICS
Module 1 Introduction	Learning the formulation of research question/hypothesis, It's aim & objectives. Style of referencing, referencing techniques, bibliography, Review of book and its presentation. Anatomy of technical paper- parts of a technical paper; its chronology.
Module 2 Technical Writing	Critical appreciation of a project: Analyzing on the basis of site, Built form and space, spatial organization, material & techniques, elements and special characteristics.
Module 3 Technical Writing	Intent of the paper. Structuring the paper; formulating a synopsis. Identifying sources- categorization into direct and indirect; sequencing them in order of significance. Referencing.
Module 4 Writing a Technical Paper	Writing a paper of 2000 words in following stages: Synopsis with clear heads of Intent, Background, Aims and Objectives, Scope, Methodology. Structuring the body of the paper in detail. Ascertaining Primary and Secondary Sources. Utilizing the sources to reach to the desired objectives. Editing the paper

REFERENCES

1. Raman Meenakshi and Sharma Sangeeta, "Technical Communications – Principles and Practices", Oxford University Press, New Delhi.
2. Kate L. Tourabian, A manual for Writers of Research Papers, Theses and Dissertation, 8th edition.
3. Joseph Gibaldi, MLA handbook for Writers of Research Papers

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INTERIOR WORKING DRAWING-I

Scheme of Teaching

L	P/V	S/T	Total
1	--	3	4

B. Interior Design : Semester-V
Subject Code : BID 2551

Scheme of Examination

CIA	ESE	VV	Total
40	60	50	150

Total Credits : 04
Exam duration : 03Hrs

COURSE OBJECTIVE

The course objective is to make students aware how to draw working drawings for various components building construction

LEARNING OUTCOMES

Around successful completion of this course, students will be able to:

- Learn to draw working drawings of various elements of building components with detailed drawings
- Learn about execution of furniture's and other related drawing
- Analyzing the drawings that are required while execution

CONTENTS

MODULE	COURSE TOPICS
Module 1 Building components	Working drawing of different types of doors and windows, arches, and other types of fenestrations.
Module 2 Building surfaces	Working drawing of wall murals, reflected ceiling plans and flooring patterns,
Module 3 Furniture drawing	Working drawing of work stations, living room furniture, bedroom furniture and dining tables
Module 4 Furniture drawing	Working drawings of display units, office furniture's, Furnitures used in hotels and restaurants etc

REFERENCES

1. Neuferts Architects Data, Ernst Neufert
2. Time Saver Standards for Interior Design, Joseph Chiara
3. De Chiara and Callender – Time Saver Standards for interior design, 1982.

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INTERIOR DESIGN STUDIO-V

Scheme of Teaching

L	P/V	S/T	Total
1	--	7	8

B. Interior Design : Semester-V
Subject Code : BID 2552

Scheme of Examination

CIA	ESE	VV	Total
40	60	50	150

Total Credits : 08
Exam duration : 03Hrs

COURSE OBJECTIVE

To introduce the basics of designing for retail spaces including showrooms and restaurant interiors and to develop skills required for the same.

LEARNING OUTCOMES

Around successful completion of this course, students will be able to:

- Emphasis on planning show rooms , hospitality spaces
- To develop visually literate students who are proficient at analytical thinking, conceptualization and the problem- inquiry, solution cycle.
- Examines the connection between abstract design principles and the physical and visual environments.

CONTENTS

MODULE	COURSE TOPICS
Module 1 Introduction to Hospitality Space Design	Introduction to Hospitality Space Design, Literature and Case studies of existing projects. Market Study of and interior materials and finishes, lighting fixture, etc. A report needs to be submitted
Module 2 Transformation of Small Spaces	Designing an Eatery/Coffee kiosk in a Commercial based setting or plaza area which requires a small Kitchen and Pantry to function. It could be part of the Food Court or an independent kiosk in a Shopping Mall. Furniture Plan, Elevations, Sections and Detailed Furniture Design showing materials and finishes.
Module 3 Theme based Hospitality Space Design	Designing of a space for Cafeteria/Restaurant which will include Dining Area, Kitchen & Pantry, Storage Spaces and provision for a small in-house Bakery. The project will have an estimated area of 300-400sq.m.. Detailed Furniture layout, Floor Finish Plan, Reflected Ceiling Plans and Interior Elevations 3d-representation of the complete interior space.
Module 4 Model & Material Boards	Preparing a Model of a major project showing interiors in detail. Preparing Material Board using actual samples and images.

REFERENCES

1. Architecture: Form, Space and Order, Francis D.K. Ching
2. Architectural Graphic Standards, Ramsey Sleeper
3. Drawing for Interior Design, Drew Plunkett
4. Neuferts Architects Data, Ernst Neufert
5. Time Saver Standards for Interior Design, Joseph Chiara

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COMPUTER APPLICATIONS-II

Scheme of Teaching

L	P/V	S/T	Total
0	02	04	06

B. Interior Design :Semester-V
Subject Code : BID 2554

Scheme of Examination

CIA	ESE	VV	Total
100	--	--	100

Total Credits 04
Exam duration : --

COURSE OBJECTIVE

To enable the students to understand the electronic /computer as a medium presentation and documentation of various software.

LEARNING OUTCOMES

Around successful completion of this course, students will be able to:

- Be able to learn presentation of drawing in digital forms using various software's.
- Understand various software for presenting interiors views
- Apply the various rendering techniques to present their views

CONTENTS

MODULE	COURSE TOPICS
Module 1 Introduction	Introduction to popular and most suitable software for the students, that are used for interior designing, Drawing, presentation & documentation along with their types, configurations, system requirements, uses and applications & limitations; New developments on the horizon
Module 2 Software for Documentation and presentation	Introduction and primary application of software for documentation along with drafting, raster image, composing graphics, inserting images, rendering etc.; Activities along with audio visual presentation, slide shows, movie editing etc. (Suggested current software like Sketch up, Revit etc. or equivalent in nature of output etc. Any One of them & Photoshop, Corel draw, or equivalent in nature of output etc.).
Module 3 Software's for drawings	Application of learned software in current semester design project of course ARC 2401 or equivalent scaled project. Design development soft files & Presentation drawings

REFERENCES

1. Mastering Autocad 2016, George Omura
2. Autodesk AutoCAD 2016 Fundamentals, Elise Moss
3. User Manual & Tutorial of Google Sketch Up Software
4. User Manual & Tutorial of 3D Home Architect Software.

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INTERIOR ELECTIVE-I (ART IN INTERIORS)

Scheme of Teaching

L	P/V	S/T	Total
1	00	03	04

B. Interior Design :Semester-V
Subject Code : BID 2553(1)

Scheme of Examination				Total Credits	:04
CIA	ESE	VV	Total	Exam duration	: --
40	--	60	100		

COURSE OBJECTIVE

These electives will enable students to initially suit their interests at the undergraduate level and increase their knowledge in specialized areas related to interiors.

LEARNING OUTCOMES

Around successful completion of this course, students will be able to:

- Explore them self in specialized areas of interiors by studying topics in detail
- Expand themselves and their knowledge, creativity, skills globally
- Learn different aspects of interior design in different areas

CONTENTS

MODULE	COURSE TOPICS
Module 1 Introduction to creative arts in interiors	Introduction to creative arts in Interiors Concepts of Art and Interior Art movements through history of Traditional & Folk arts of different state
Module 2 Traditional arts and crafts of India	Important art movements over world wide effecting interiors like Tamilnadu, Karnataka, Kerala, Andhra Pradesh, Goa, Rajasthan, Gujarat, Kutch, West Bengal, Orissa, Bihar, Jammu etc
Module 3 Creative arts & it's use	Types of arts used in different types of interior spaces like residences, restaurants, hotels, hospitals and other living spaces in form of murals, sculpture, wall paintings, creating wall textures Usable art (furniture, water bodies etc.)

REFERENCES

1. Publication on Traditional arts and crafts on India, Ministry of Handicrafts Development, G.O.I India.
2. The Art of colour, John Wiley and Sons, USA, 1973
3. Rendering with Pen&Ink

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INTERIOR ELECTIVE-I

(COLOUR THEORY AND APPLICATION)

Scheme of Teaching

L	P/V	S/T	Total
1	00	03	04

B. Interior Design :Semester-V
Subject Code : BID 2553(2)

Scheme of Examination

CIA	ESE	VV	Total
40	--	60	100

Total Credits :04

Exam duration : --

COURSE OBJECTIVE

Learning the use of colors in Interiors

LEARNING OUTCOMES

Around successful completion of this course, students will be able to:

- Explore them self in specialized types of colors used for interiors.
- Understanding the impact of colors on human being and making its efficient use in interiors
- component and various products being used in buildings.

CONTENTS

<u>MODULE</u>	<u>COURSE TOPICS</u>
Module 1 Introduction	Study of classification of colour with different hues, values, and shades. Colour composition and properties. Colour wheel showing primary, secondary & tertiary colours. Chart showing Tints & tones of various colours, Colour combinations
Module 2 Applications of colours	Exploring Colour Schemes and its application Assignment on Colour shall be aimed at developing the skills to create Visually pleasing Colour Schemes based on principles of Harmony and Contrast and degree of Chromatism.
Module 3 Using colour as element of interior	Colour as an expressive element in interior emphasize the character of a building and create harmony and unity
Module 4 Approaches to colour	Approaches to colour in architecture and design. The use of colour in architecture More Than Just Decoration. Examples of colour uses by masters and making a report.
Module 5 Effect of colour in interiors	Effect of colour in relief compositions. Students may be advised to use colours in interior and exterior rendering of different type shapes in different type shapes in different mediums to have firsthand experience

REFERENCES

1. Architectural Rendering Albert & Habe How to paint & draw Jaxtheimer
2. COLOR, Environment, & Human Response by Frank H. Mahnke
3. Color-Communication in Architectural Space by Meerwein, Rodeck, Mahnke
4. The role of colour in architecture by James A M Bell

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INTERIOR ELECTIVE-I

(CONTEMPROARY MATERIAL IN INTERIORS)

Scheme of Teaching

L	P/V	S/T	Total
1	00	03	04

B. Interior Design : Semester-V

Subject Code : BID2553(3)

Scheme of Examination

CIA	ESE	VV	Total
40	--	60	100

Total Credits 04

Exam duration : --

COURSE OBJECTIVE

To expose the students to Contemporary materials used in interiors of various parts of the country

LEARNING OUCOMES

Around successful completion of this course, students will be able to:

- Learn about various types of materials used construction influencing the planning aspects of interiors
- Learn about materials influencing interiors in different areas
- Analyzing the concepts of Vernacular interiors.

CONTENTS

<u>MODULE</u>	<u>COURSE TOPICS</u>
Module 1 Introduction to Vernacular Interiors	Approaches and concepts to the study of Vernacular interiors Introduction to interiors of Kutchaa and Pucca architecture
Module 2 Southern region	Materials and construction details influencing the interiors of: 1. Kerala – Nair houses (Tarawads), Kerala Muslim houses (Mappilah houses), Temples, Palaces and theaters – Thattchushastra. 2. Tamil Nadu – Toda Huts, Chettinad Houses (Chettiars) & Palaces 3. Karnataka – Gutthu houses (land owning community), Kodava ancestral home (Aynmane) Etc.
Module 3 Western Region	Materials and construction details influencing the interiors of: 1. Jat houses for farming caste, Bhungas(Circular Huts) and Havelis(Pukka houses) of Rajasthan 2. Pol houses of Ahmedabad - Primitive forms, Symbolism, Colour, Folk art etc in the architecture of the deserts of Kutch & Gujarat state.
Module 4 Northern & Eastern region	Materials and construction details influencing the interiors of: 1. Planning aspects, Materials used, Constructional details, Climatic factors influencing the planning of- 2. Kashmir – Typical Kutcha houses, mosque, Dhoongas(Boathouses), Ladakhi houses, bridges 3. Himachal Pradesh – Kinnaur houses 4. Uttar Pradesh – Domestic housing of Uttar Pradesh 5. Bengal – Bangla (Rural house form), Aat Chala houses – change from Bangla to Bungalow, Kutcha & Pucca architecture of Bengal.Nagaland – Naga houses & Naga village, Khasi houses Factors influencing the planning aspects, materials of construction& constructional details of the above.

REFERENCES

1. Architecture & Interiors of the Indian desert, Kulbushan Jain & Meenakshi Jain, Aadi Centre, Ahmedabad
2. Haveli – Wooden houses & mansions of Gujarat, V.S.Pramar, Mapin Publishing Pvt. Ltd., Ahmedabad
3. VISTARA – The architecture of India, Carmen Kagal. Pub : The Festival of India, 1986.

SEMESTER-VI

INTERIOR SERVICES-IV (HVAC Systems)

Scheme of Teaching

L	P/V	S/T	Total
3	--	--	3

B. Interior Design : Semester-VI
Subject Code : BID-2601

Scheme of Examination

CIA	ESE	VV	Total
40	60	--	100

Total Credits : 03
Exam duration : 03Hrs

COURSE OBJECTIVE

Integration of HVAC system with building design & its application.

LEARNING OUTCOMES

Around successful completion of this course, students will be able to:

- Expose about areas of air-conditioning, heating and ventilation in buildings of various type
- Learn integration in most appropriate manner right at the design stage.
- Get aware about the various fire and sensory mechanisms

CONTENTS

MODULE	COURSE TOPICS
Module 1 Air conditioning	Principles of Air conditioning; concept of thermal comfort; physiological principles; reaction of human body to the thermal environment; principles of psychometric; psychometric chart; selection of indoor and outdoor design conditions; refrigeration and air cycle; cooling and heating load calculations; various systems of air conditioning; duct work and air conditioning layout, fittings and fixtures; evaporative cooling, fair conditioning and its suitability.
Module 2 Equipment's	Scheme and equipment required for HVAC; their placement and physical space requirements
Module 3 Process	Various systems of air conditioning; duct work and air conditioning layout, fittings and fixtures; evaporative cooling.
Module 4 HVAC design	Design and drawing of HVAC system for existing /pre-designed building.
Module 5 Fire Safety & security	Mechanism of fire spread in building and prevention – Fire safety standards – Concepts in fire protection Fire Heat sensitive detectors – Smoke detectors – Automatic water sprinkler system- Foam systems. Fire Retarding materials, Fire rated doors, etc., Principles of Security, types of security system and its application

REFERENCES

1. N.B.C India
2. C.P. Arora, „Refrigeration & Air conditioning“
3. Manohar Prasad, „Refrigeration & Air conditioning“

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INTERIOR WORKING DRAWING-II

Scheme of Teaching

L	P/V	S/T	Total
1	--	3	4

B. Interior Design :Semester-VI
Subject Code : BID 2651

Scheme of Examination

CIA	ESE	VV	Total
40	60	50	150

Total Credits :04
Exam duration : 03Hrs

COURSE OBJECTIVE

The course objective is to make students aware how to draw working drawings for various components building construction.

LEARNING OUTCOMES

Around successful completion of this course, students will be able to:

- Learn to draw working drawings of various elements of building components with detailed drawings
- Learn about execution of furniture's and other related drawing
- Analyzing the drawings that are required while execution

CONTENTS

MODULE	COURSE TOPICS
Module 1 Detailing of special areas	Working drawing for toilet areas with plumbing details Materials, floorings , walls, textures, fittings & fixtures details.
Module 2 Detailing of special areas	Working drawing of kitchens of different designs with detailing of shelves and cupboards Storage areas, flooring, wall tiles, chimney etc with special focus on ergonomics
Module 3 Detailing of special areas	Working drawing details of ceiling plans ,detail drawings of false ceilings, wall claddings and other walls treatments. Bank counter, Bar counter, Conference table, shop front ,Show window
Module 4 Detailing of storage areas	Working drawing of wardrobes, TV cabinet and showcase, crockery shelves, cadenza, chest of drawers, dressing table, etc.

REFERENCES

1. Neuferts Architects Data, Ernst Neufert
2. Time Saver Standards for Interior Design, Joseph Chiara
3. De Chiara and Callender – Time Saver Standards for interior design, 1982.

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INTERIOR DESIGN STUDIO-VI

Scheme of Teaching

L	P/V	S/T	Total
1	--	7	8

Scheme of Examination

CIA	ESE	VV	Total
40	60	50	150

B. Interior Design :Semester-VI

Subject Code : BID 2652

Total Credits	08
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Exam duration : 03Hrs

COURSE OBJECTIVE

The objective of the course is to introduce the students to the different types of Commercial and Corporate spaces and interior design requirements related to them.

LEARNING OUTCOMES

Around successful completion of this course, students will be able to:

- Involve themselves in different design ideas
- Analyze various schemes to represent the designing of retail spaces.
- Study will analyze various corporate spaces and their design concepts

CONTENTS

MODULE	COURSE TOPICS
Module 1 Retail Outlet Design	Designing of a retail outlet of an estimated area of 300-400sq.m. Preparation of conceptual sketches and then working on a schematic and design development. Preparing detailed Furniture layout, Floor Finish Plan, Reflected Ceiling Plans and Interior Elevations and 3d-representation of the complete interior space and 3D representation.
Module 2 Introduction to Corporate Space Design	Literature and Case studies of existing Corporate & Office spaces and modular furniture. Designing an Office space of an estimated area of 150-200sq.m. Preparation of conceptual sketches and detailed Furniture layout, Floor Finish Plan, Reflected Ceiling Plans and Interior Elevations and 3d-representation of the complete interior space
Module 3 Model	Preparing a physical model of at least one major project showing complete interiors. Preparing a material board, which has a list of all the materials and finishes used in individual's Retail design
Module 4 Hospitality	Special ideas for suites and banquet halls – contemporary interior schemes to integrate new concepts in lighting and materials. Presented through 3d views, sketches. etc

REFERENCES

1. Architecture: Form, Space and Order, Francis D.K. Ching
2. Architectural Graphic Standards, Ramsey Sleeper
3. Drawing for Interior Design, Drew Plunkett
4. Neuferts Architects Data, Ernst Neufert
5. Time Saver Standards for Interior Design, Joseph Chiara

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INTERIOR ELECTIVE-II

(INTERORSCAPE)

Scheme of Teaching

L	P/V	S/T	Total
1	00	03	04

B. Interior Design :Semester-VI
Subject Code : BID2653(1)

Scheme of Examination

CIA	ESE	VV	Total
40	--	60	100

Total Credits :04

Exam duration : --

COURSE OBJECTIVE

The objective of the course is to introduce the students to the practice of arranging and designing landscaping in interiors.

LEARNING OUTCOMES

Around successful completion of this course, students will be able to:

- Study the concepts of interior landscaping and their application in the design of interior spaces.
- Use different types of plants, shrubs, etc in landscaping
- Understand the role of roof and deck landscaping

CONTENTS

MODULE	COURSE TOPICS
Module 1 Introduction	Introduction to interior; Role and working of landscaping organizations such as ASLA etc., Definition, classification of plants, indoor plants and their functions, layout & components, Various interior landscaping elements – water bodies - pools, fountains, cascades Plants, rocks, artifacts, paving & lighting.
Module 2 Physical requirements of plants	Physical requirements of plants – light, temperature, water, planting medium, soil separator, weight of plants, acclimatization & maintenance. Techniques to meet physical requirements.
Module 3 Principles of Interior Landscape	Ergonomics, topiary, etc concepts for designing/ ornamentation of interior landscaping; representation techniques, graphics and symbols, rendering techniques; study of various fundamentals of designing such as aesthetics, expressions, harmony, etc
Module 4 Plant scaping	Plant scaping an area using any style of Interior Landscaping. Providing detail legends of plants, shrubs, etc; using any style of interior landscaping Planters/types and other hardware for interior landscaping
Module 5 Studying planters	Working exercises for spaces like Courtyard design , An outdoor room design , Terrace garden etc.

REFERENCES

1. Time saver standards for landscape architecture.
2. Tropical Garden Plants in Colour by Bose and Chowdhury
3. Landscaping Principles and Practices by Jack E.Ingels,Delmar Publishers.

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INTERIOR ELECTIVE-II

(LIGHTING & INTERIORS)

Scheme of Teaching

L	P/V	S/T	Total
1	00	03	04

B. Interior Design :Semester-VI

Subject Code : BID 2653(2)

Scheme of Examination

CIA	ESE	VV	Total
40	--	60	100

Total Credits :04

Exam duration : --

COURSE OBJECTIVE

Students should acquire knowledge of the various types of lightings to effectively communicate their designs

LEARNING OUTCOMES

Around successful completion of this course, students will be able to:

- Understand the effect of various lights on colours and textures.
- study of natural and electric lighting in an architectural context. component and various products being used in buildings.
- Emphasis upon the role light can play in shaping interior

CONTENTS

MODULE	COURSE TOPICS
Module 1 Introduction to lighting	Nature of light – Wavelength, Photometric quantities – intensity, Flux, illumination and luminance, visual efficiency, sources of light, day light factor concept, design sky concept, day lighting requirements. Colour fundamentals: colour temperature, object colour, reactions to colour, chromaticity, colour rendering index. Light sources: basic characteristics, selecting an appropriate light source, comparison of natural and artificial light
Module 2 Day lighting	Daylight source, Characteristics of day light, Control devices:- Conventional divisions, optical division, prismatic division, awnings, curtains, overhangs, light shelves, sills, fins, jalis, louvers and shutters, photo chromatic and film controls, prismatic glass, special high-performance glasses inbuilt louvers.
Module 3 Artificial lighting	Electric lamps – incandescent, fluorescent, sodium vapour, mercury, halogen and neon. Different types of lights in interior and exterior - task lighting, special purpose lighting. Calculation of artificial lighting, guidelines for lighting design, Glare in artificial lighting Effect of lighting in interior.
Module 4 Luminaires & Symbols	Definition, different luminaires for lighting, lighting control system- benefits & Symbols Guide, Codes and Compliance, Lighting Organizations, Directional Effects of Lighting, Light Distribution, Layers of Light, Residential Lighting Techniques, Office Lighting Techniques, Restaurant Lighting Techniques, Outdoor Lighting
Module 5 Lighting Applications	Lighting art galleries, museum, residential, educational, commercial, industrial, buildings Special lighting applications: emergency lighting, floodlighting, street lighting, fiber optic lighting, hollow light guides, prismatic light guides, remote source lighting

REFERENCES

1. Architectural Lighting by M. David Egan, Victor W. Olgyay
2. NBC ,India
3. Neufert

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INTERIOR ELECTIVE-II

(LOW COST INTERIORS)

Scheme of Teaching

L	P/V	S/T	Total
1	00	03	04

B. Interior Design :Semester-VI
Subject Code : BID 2653(3)

Scheme of Examination

CIA	ESE	VV	Total
40	--	60	100

Total Credits :04
Exam duration : --

COURSE OBJECTIVE

To familiarize the student with cost-effective construction for building economy

LEARNING OUTCOMES

Around successful completion of this course, students will be able to:

- Develop an understanding of types of construction of low cost structures
- Understand about the using of low cost construction techniques
- Learn about variety of low cost materials

CONTENTS

MODULE	COURSE TOPICS
Module 1 Introduction	Introduction to low-cost building material, Factors constituting building costs, Controlling parameters for achieving Cost Effective Interior – land, space, materials, design, construction techniques, construction time & labour
Module 2 Material & Technologies	Local materials and traditional technologies, Improved traditional technologies, Innovative Materials and construction methods developed Laurie baker; CBRI Roorkee, HUDCO, Anangpur Building Centre,
Module 3 Low cost materials	Development Alternatives, Auroville Building Centre and many others for different types of walling, roofing and foundation with materials like Pressed soil blocks, soil cement blocks and other alternative materials – fly ash brick, gypsum byproducts, Ferro cement products, bamboo, jute stalk etc; Ways to cut down the use of unwanted building materials,
Module 4 Low cost material techniques	Project time optimization to reduce project costs, Use of effective project management techniques. Case studies presentations of low cost/ cost effective projects and their comparative cost analysis with conventional projects.

REFERENCES

1. Low cost housing in developing countries by G. C. Mathur
2. Low Cost Housing competitions 1974 – 96 by HUDCO
3. CBRI Publications – Book 1-9

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COMPUTER APPLICATIONS-III

Scheme of Teaching

L	P/V	S/T	Total
0	02	04	06

B. Interior Design :Semester-VI

Subject Code : BID 2654

Scheme of Examination

CIA	ESE	VV	Total
100	--	--	100

Total Credits 04

Exam duration : --

COURSE OBJECTIVE

To familiarize the students with the concepts of 3D modeling & enable them to experiment with forms, mapping, rendering and presentation techniques

LEARNING OUTCOMES

Around successful completion of this course, students will be able:

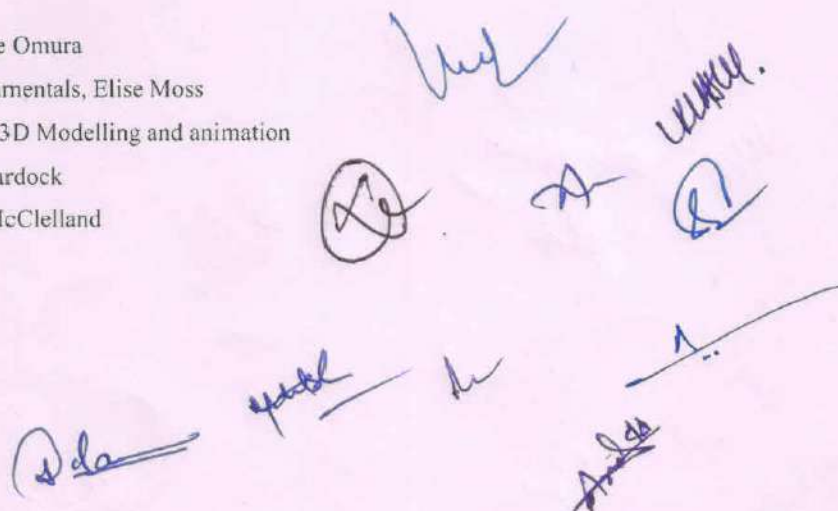
- To enhance the visualizing skills of the students by exposing them to the latest modeling software's.
- To learn presentation of drawing in digital forms using various software's.
- Introduce various software for presenting interiors views

CONTENTS

MODULE	COURSE TOPICS
Module 1 Introduction	Introduction 3d modeling software to present 3d-view of interiors and fine rendering techniques using different rendering software like V-Ray etc..
Module 2 Software for presentation	Introducing 3ds max An overview of GUI, types of modeling, transforming objects, Compound objects, modifiers & modifier stack., Lathing, displacement, lofting, Boolean operations using standard and compound primitives, modeling with lofts, low polygon modeling and nurbs modeling
Module 3 Rendering techniques using V-Ray	Using material editor, material browser, mapping textures Lighting, cameras and render effects, environment mapping, fogs and atmospheres. Using V-ray for rendering techniques

REFERENCES

1. Mastering Autocad 2016, George Omura
2. Autodesk AutoCAD 2016 Fundamentals, Elise Moss
3. Advanced 3DS Max -Advanced 3D Modelling and animation
4. 3DS MAX 8 Bible – Kelly C.Murdock
5. 2. Photoshop CS Bible – Deke McClelland



INTERIOR SEMINAR

Scheme of Teaching

L	P/V	S/T	Total
02	--	--	02

B. Interior Design :Semester-VI
Subject Code : BID 2655

Scheme of Examination

CIA	ESE	VV	Total
40	-	60	100

Total Credits :02

Exam duration : --

COURSE OBJECTIVE

To introduce students to the research-based project and its analysis on different topics.

LEARNING OUTCOMES

Around successful completion of this course, students will be able to:

- Understand the importance of evolutionary stages of Research process
- Analyze various techniques required for successful presentation of research work
- Learn Compilation of data with collected statistics

PROGRAM

Each student is required to conduct an intensive study and present a seminar on any of the topics related to the field of interior with following details:

Module 1 Collection of data	Site and Surrounding survey location, local climate conditions, topography, existing landscape, socio-culture impact on design, Study the site potentials in terms of energy conservation and natural conditions.
Module 2 Analysis of data	Research analysis and data collection, justification to the topic, detailed study of functions, study of relationship of built and open spaces, interlinking of various activities. Compiled report to be presented in form of seminar
Module 3 Case & literature study	The research undertaken by the student shall include relevant case study from the field service or by contact with practicing interior designers and large level clients. Literature study related to the topics through books, magazines, web etc that could support as prove data regarding the data collection. Compiled report to be presented in form of seminar
Module 4 Presentation	Preparing analysis report with suitable drawings based on above information and to be submitted in form of well compiled document fully illustrated with diagrams and sketches Final presentation to be presented in form of seminar.
Module 5 Research paper publish	Publishing of paper on the research done on relevant topic

SEMINAR PROCESS

The students should submit synopsis for the least three different research oriented topics, to the respective Institution, of which one will be approved to carry on the research. Each student shall be attached with a faculty member who will guide his work. The arrangement of the assessment of the progress through the semester for all the students and a „Program Schedule“ will be declared separately for each session by the respective Institution.

SEMINAR JURY:

The final assessment of the seminar presentation and report will be made through a panel of external jury, in accordance with the „Seminar Evaluation Regulations“ to be issued separately

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SEMESTER-VII

INTERIOR PRACTICAL TRAINING

Scheme of Teaching

L	P/V	S/T	Total
-	--	25	25

B. Interior Design
Subject Code

:Semester-VII
: BID 2751

Scheme of Examination

CIA	ESE	VV	Total
280	-	420	700

Total Credits

25

Exam duration

: --

COURSE OBJECTIVE

To equip the students with complete practical knowledge and skills needed for management of office along with current practices and learn to handle interior projects individually.

LEARNING OUTCOMES

Around successful completion of this course, students will be able to:

- Learn to Tackle problems of interior projects individually.
- Learn the codes of conduct required to enhance skills and techniques of managing small and large scale residential and commercial interior projects.
- Impart knowledge and skills needed such as estimating, costing, analyzing rates and processes of tendering for practicing profession of Interior Architecture.

TRAINING RULES:

Each student will be required to proceed on „Practical Training“ for the VII semester after appearing at the VI semester examination. The principal/Head of Department of Architecture of the concerned Institute will approve the office of the „Practical-Training“ for the student.

The marks for „Practical Training“ will be awarded to each student in accordance with the Regulations and Guidelines issued separately by the BBD University.

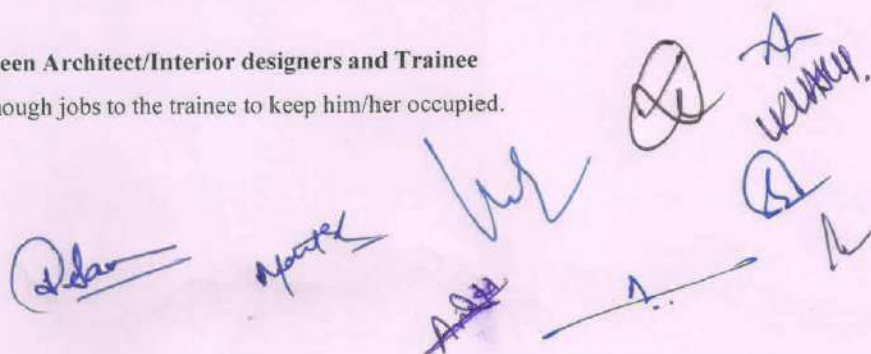
GUIDELINES FOR STUDENT TRAINEE

1. Criteria for selection of a Training Office

- In case of proprietorship firm, the proprietor shall be an architect/Interior designer; also, the firm shall have at least two or more architects/Interior designers as employee/associates.
- In case of „Partnership“ / „Pvt. Ltd.“ Firms, at least one of the partner/director shall be an architect/Interior designers, and the firm shall have at least one or more architects as Partner/director/employee/ associate.
- In case of a „Public-sector“ / „State or Central Government office/academic institute or a multinational organization“, there shall be a separate wing for architectural consultancy works.
- The said architect/Interior designers (Proprietor/Partner/Director/Head of Department/Chief Architect etc.) shall have at least 10 years of working experience and the organization should have a variety of projects.

2. Working Relationship between Architect/Interior designers and Trainee

- The architect shall provide enough jobs to the trainee to keep him/her occupied.



- The Architect shall expose the trainee to difference aspects of professional practice. The tasks given to the trainee shall include the following-

- **Preparation of**

- Sketch designs, presentation drawings etc.
- Municipal drawings according to the byelaws.
- Workings drawings and details.
- Estimates, bill of quantities & specifications.

- **Discussions with**

- Clients.
- Structural Consultants.
- Services Consultants.

- **Inspection and management of site.**

- **Preparation of**

- Models, perspectives and photographs.
- Reports, progress charts etc.

- **Other administrative works.**

3. **Honorarium/Stipend**

- The architects/Interior designers usually pay some amount as honorarium/stipend to meet out of pocket expenditure to the trainee. The Institute/College of the student shall have no objection if the trainees accept/receive such honorarium/stipend.
- The mode and amount of the honorarium shall depend upon the office and be based upon a mutual agreement between the employing architect/Interior designers and the trainee. However it shall neither be a claim of the trainee nor binding on the architect but in order of professionalism and to maintain the dignity of profession, the training office of architects/Interior designers pay a respectable amount as stipend/honorarium.
- The Institute/Training and Placement cell of the Institute shall not in any way be responsible for the payment against any sorts of damages, whatsoever.

4. **Code of conduct for the trainee**

- He/she shall abide by the rules, regulations and general instructions of the office/firm.
- He/she shall remain punctual and regular in attendance.
- He/she shall make all efforts to learn the work involved in the profession, and if so required for work, shall attend the office beyond the scheduled time in the office.
- He/she shall respect and obey the senior members of the office/firm.

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- He/she shall take up the job with full responsibility and show utmost interest in the work allotted.
- He/she shall inform the institute/training and placement cell about joining in the training office, its address and contact numbers. He/she shall also inform the address of the accommodation acquired during the training period.
- He/she shall remain in regular touch with the institute/ „Training and Placement Cell“ and shall keep the Training and Placement Cell fully informed about his/her progress in the training office.
- In case of any complaint or misconduct, the Institute/Training and Placement Cell may take suitable and strict action against the student

5. Arranging/Fixing-up the Training office

- The School of Architecture, directly or through the „Training and Placement Cell“ of the Institute shall provide a list of offices, along with their addresses of some well-established and recognized architects. Addition, alteration and deletion in such a list may be made from time to time in conformity to „Criteria“ as laid down for selection of a training office.
- After seeking advice from „Training and Placement Cell“, the student shall make his/her options available to the Training and Placement Cell.
- With the help of „Training and Placement Cell“, the student shall make all efforts to settle his/her appointment as trainee with an established and recognized architect/interior designer.

6. Joining and Leaving the Training Office

- The trainee is expected to join the training office on the scheduled date, and submit his 'Joining Report' on the letterhead of the office duly signed by Head of the Training to the Institute in the Performa prescribed for the purpose and contained in the Log Book.
- The trainee must obtain a „No Dues Certificate' duly and get relieved from the office at the end of the training period or before changing the „Training Office“. The trainee must submit this 'No Dues Certificate' along with the Log Book.

7. Change of Training Office

- In case of any emergency, a trainee may be permitted to change the training office/place of training once only during the entire period of training. He/she shall inform the Principal/Director/Head of Department/Officer in-charge of the „Training and Placement Cell“, and seek prior permission for such a change.
- The total duration of the practical training shall be the sum of the period of stay in different offices. It shall be in conformity with the „Duration of Training“ as prescribed in the „Ordinances, Scheme of Examination & Syllabus“ of the BBD University.

8. Final Submissions

- After completion of practical training, the trainee is required to submit the following to the parent Institute.
- „Certificate“ of successful completion of the practical training mentioning the attendance in percentage, from the architect.

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- „Daily Diary“ with details of the day to day work record, which will be returned to the student after assessment and viva voce examination. The suggested „Proforma“ of the page of the daily diary is available in the prescribed „Log-Book“.
- „Training report“ supplemented with the prints and documents of work done during practical training. The prints and documents shall be obtained with the permission of the Training office and shall be duly signed by the „Supervisor“.
- Training report shall be submitted in two copies. First copy shall be returned to the student after assessment of sessional marks and viva voce examination. The second copy shall be retained by the Training and Placement Cell/library. These shall be presented in A-4 size with ring binding.

7 Failures:

- In case the student/trainee remains unsuccessful or fails in completing his/her practical training or viva-voce examination, the matter shall be dealt with in accordance with the relevant „Rules and Regulations“ of the university.

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SEMESTER-VIII

INTERIOR PROFESSIONAL PRACTICE

Scheme of Teaching

L	P/V	S/T	Total
3	--	--	3

B. Interior Design

:Semester-VIII

Subject Code

: BID 2801

Scheme of Examination

CIA	ESE	VV	Total
40	60	--	100

Total Credits

:03

Exam duration

: 03Hrs

COURSE OBJECTIVE

To acquaint the students about different Professional and Legal bodies related to the Interior and Architecture Design Profession, their role and importance.

LEARNING OUTCOMES

Around successful completion of this course, students will be able to

- Get aware about the professional intricacies, professional responsibilities
- Understand conduct and legal obligations in professional field
- To make implications for familiarizing responsibilities as a professional person

CONTENTS

MODULE	COURSE TOPICS
Module 1 Introduction to Professional Body (IIID)	Familiarization with the Professional Bodies directly and in-directly related to Interior profession such as The Indian Institute of Interior Designers (IIID), The Indian Institute of Architects (IIA), The Council of Architecture (COA), etc. Minimum set standard of education for Interior design Details about Membership categories, its structure and their election procedure Functions and formation of the IIID Council, importance,
Module 2 Code of Professional Conduct and design competitions	Code of Conduct followed by professional trade practices and ethics. Roles & responsibility towards profession, public, client, customers and others. Awareness about Interior design competitions and its procedure laid by IIID
Module 3 Drawings Submission & Scale of Charges	Steps involved and types of drawing to be submitted at different stages of execution of project Scale of Charges set as standard to be charged at different steps of execution according to different type of projects.
Module 4 Tender & Contract	Types, details of a tender document, procedure to be followed for calling tenders, tender analysis Important terms such as Earnest Money Deposit, Security Deposit, Defect Liability, Insurance etc. Types of the Contracts, role of the owner, interior designer and the contractor in fulfillment of the contract.
Module 5 Setting up of Interiors Office and start of Practice	Size of the office, location, infrastructure requirement, staff requirement etc. Procurement of the works. Important activities in a professional office.

REFERENCES

1. COA document of Architect's Act 1972
2. Professional Practice in India – S.K. Sahu
3. Code of Architectural Practice – B.M. Basu
4. IIID handbook document

INTERIOR THESIS

Scheme of Teaching

L	P/V	S/T	Total
-	--	14	14

Scheme of Examination

CIA	ESE	VV	Total
160	-	240	400

B. Interior Design

Subject Code

:Semester-VIII

: BID 2851

Total Credits

14

Exam duration

: --

COURSE OBJECTIVE

To provide the students an opportunity to research and develop a design scheme for a project of their choice and approved by the school maintaining professional working standards and attain a professional level approach with extensive details.

LEARNING OUTCOMES

Around successful completion of this course, students will be able to:

- Understand the importance of the evolutionary stages of a design process and various techniques required for a successful presentation of interior design projects.
- Develop in students the ability to handle specific aspects of design, relevant to the topic.
- Focus upon the research in different field

THESIS PROGRAMME

Each student is required to conduct an intensive study and present a design thesis on any of the design topics.

The students should submit synopsis for the least three different, design or research oriented topics, to the respective School, of which one will be approved to carry on the research and design. Each student shall be attached with a faculty member who will guide his work. The arrangement of the assessment of the progress through the semester for all the students and a „Program Schedule“ will be declared separately for each session by the respective School of Architecture.

The work of the student should result into a „Design Proposal“ based on the complete and detailed study of site including its selection, topography, climate, spatial requirements of the project, special functional and physical needs of the project, and the standard data, construction and services and all other factors that the involved with a particular thesis topic.

At least one of the following items, for complete design or an approved part thereof, should be covered in full detail and included in the design and presentation, along with the final design proposal-

1. Working Drawing & Construction detail
2. Furniture Design & Detailing
3. Detail Estimate & Specification

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1. Flow charts, Conceptual sketches
2. Drawings(Proposed drawings in form of (Plans/sections/Elevations)
3. Estimate & costing of the project proposed
4. Working drawings of the proposal
5. Perspective views, models to explain your thinking

1. Flow charts, Conceptual sketches
2. Drawings(Proposed drawings in form of (Plans/sections/Elevations))
3. Estimate & costing of the project proposed
4. Working drawings of the proposal
5. Perspective views, models to explain your thinking

The thesis report should explain the objectives, scope, case studies, literature study – research and data, design concept/approach, design proposals, construction programming & financing etc

pective Institution.

INTERIOR ELECTIVE-III

WORKING DRAWING & CONSTRUCTION DETAILS

Scheme of Teaching				B. Interior Design	Semester-VIII
L	P/V	S/T	Total	Subject Code	: BID 2852(1)
1	3	--	4	Total Credits	04
Scheme of Examination				Exam duration	: --
CIA	ESE	VV	Total		
40	--	60	100		

COURSE OBJECTIVE

The course objective is to make students aware how to draw working drawings for various components building construction and its detailing.

LEARNING OUTCOMES

- Around successful completion of this course, students will be able to:
- Learn to draw working drawings of various elements of building components with detailed drawings.
 - Learn about execution of furniture's and other related drawing
 - Analyzing the drawings that are required while execution

CONTENT

Module 1 Building components	Working drawing of different types of doors and windows, arches, and other types of fenestrations.
Module 2 Building surfaces	Working drawing of wall murals, reflected ceiling plans and flooring patterns,
Module 3 Furniture drawing	Working drawing of work stations, living room furniture, bedroom furniture and dining tables and other specific furniture if any.
Module 4 Furniture drawing	Working drawings of display units, office furniture's, Furnitures used in hotels and restaurants etc

REFERENCE BOOKS:

1. Neuferts Architects Data, Ernst Neufert
2. Time Saver Standards for Interior Design, Joseph Chiara
3. De Chiara and Callender – Time Saver Standards for interior design, 1982.

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INTERIOR ELECTIVE-III

FURNITURE DESIGN & DETAILING

Scheme of Teaching

L	P/V	S/T	Total
1	3	--	4

Scheme of Examination

CIA	ESE	VV	Total
40	-	60	100

B. Interior Design
Subject Code

:Semester-VIII
: BID2852(2)

Total Credits

04

Exam duration

: --

COURSE OBJECTIVE

To enable the students to understand the design attributes & the construction techniques and basics of furniture making in interior works.

LEARNING OUTCOMES

- Around successful completion of this course, students will be able to:
- Be able to understand the construction techniques and process of basic furniture making in interior works.
 - Be able to focus on customized and made to order furniture used as latest trends in interiors.
 - Get aware of the furniture designing which is a important part of interior design.

DETAILS OF COURSE:

Module 1 Analyzing furniture	Analyzing furniture forms and designing furniture forms scientifically based on ergonomics, material design and working parameters and visual perception of furniture as a single form and as a system in a given interior space.
Module 2 Measurement drawing	Measurement drawing of a piece of a furniture-plan, elevation, sections and detail drawings on proper scale. Design of a simple object having some moving components like a folding stool or chair. History of furniture from early days to industrial revolution.
Module 3 Furniture Style	Design and understand Post Independence furniture style.
Module 4 Detailing furniture	Understanding the necessity, use & applications of designed details for customized considering design aspects like ergonomics, functionality, material use, workability, aesthetics etc

REFERENCE BOOKS:

1. Neuferts Architects Data , Ernst Neufert
2. Time Saver Standards for Interior Design, Joseph Chiara
3. A Visual Dictionary of Architecture, Francis D.K. Ching
4. Creative Interiors (Design of Enclosed Space), Shashi Jain
5. Interior design illustrated , Francis D.K. Ching

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INTERIOR ELECTIVE-III

DETAILED ESTIMATE & SPECIFICATION

L	P/V	S/T	Total
1	3	--	4

Total Credits	04
Exam duration	: --

CIA	ESE	VV	Total
40	-	60	100

COURSE OBJECTIVE

To acquaint students about preparing detailed estimate and specification of a given interior project.

LEARNING OUTCOMES

- Prepare detailed estimate of interior drawings.
- Learn to specify materials and draft specification of the project.
- Learning about various materials used in Interior space

CONTENT

CONTENT	
<u>Module 1</u> Material Specification	Writing detailed specification for various advance interior materials related to wall, flooring, ceiling etc. in the project
<u>Module 2</u> Specification	Writing detailed specification for various works related to furniture etc, Specification of BIS and other institutions General Abbreviations used in specifications.
<u>Module 3</u> Types of estimation	detailed estimates with respect to materials, rate and break up of material requirements with respect to Labor, introduction to cost accounting and book keeping.

REFERENCE BOOKS:

1. Estimating and Costing in Civil Engineering: B. N. Dutta
2. Estimation, Costing & valuation by M. Chakraboty.
3. Civil Engineering Handbook – P.N. Khanna
4. R.C.C. Design – Khurmi, Punmia, Sushil Kumar

Engineering: B. N. Dutta
M. Chakraboty.
Khanna
Sushil Kumar

INTERIOR ELECTIVE-III INTERIORSCAPE

Scheme of Teaching

L	P/V	S/T	Total
1	3	--	4

B. Interior Design

:Semester-VIII

Subject Code

: BID 2852(4)

Scheme of Examination

CIA	ESE	VV	Total
40	-	60	100

Total Credits

04

Exam duration

--

COURSE OBJECTIVE

To make students aware indoor environment and spaces, and importance of landscaping in interiors

LEARNING OUTCOMES

Around successful completion of this course, students will be able to:

- Get awareness about the outdoor environment.
- Explore the role and importance of interior scaping and improving the quality of building environs, functionally and aesthetically.
- Learning about various materials used in Interior space

CONTENT

Module 1 Using Elements of landscape	Land: Different aspects of land as a landscape element - soils, geology, topography, earth forms, levels, foundations, grading, drainage, paved and un paved surfaces. Plants: Different aspects of trees, shrubs, climbers, hedges, lawns as landscape elements. Basic horticultural idea about plants, plant selection, planting design and care of plants
Module 2 Using Elements of landscape	Water: Various forms of water elements in a landscape - fountains, waterfalls, pools, cascades, channels, irrigation etc. Construction of various water elements
Module 3 Role of climate	Climate: Macro and micro-climatic considerations in landscape architecture. Effect of climate on the landscape and various components of landscape on the microclimate. Relationship between climate, landscape and architecture. The importance of these natural components and use of aspects as a landscape design element.

REFERENCE BOOKS:

1. Norman "Residential Landscape Architecture: Design Process for the Private Residence",
2. M. Laurie, "Introduction to Landscape Architecture" Elsevier, 1986
3. Geoffrey Alan Jellicoe, "The Landscape of Man: Shaping the Environment from Prehistory to the Present Day", Thames and Hudson, 1995
4. J.O. Simonds, "Landscape Architecture- A manual of site planning and design", McGraw Hill Publications, 2006.
5. Kevin Lynch, "Site Planning", MIT Press, 1984.

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INTERIOR ELECTIVE-III SERVICES

Scheme of Teaching

L	P/V	S/T	Total
1	3	--	4

Scheme of Examination

CIA	ESE	VV	Total
40	-	60	100

B. Interior Design

:Semester-VIII

Subject Code

: BID 2852(5)

Total Credits

04

Exam duration

: --

COURSE OBJECTIVE

To develop an understanding of the advanced interior services and their application in the design proposals of given space.

LEARNING OUTCOMES

Around successful completion of this course, students will be able to:

- Understanding innovative techniques of services.
- Grasp the complexities of services in space & form.
- Become adept in designing the services for large campus spaces

CONTENT

Module 1 Water Supply	Water supply and Sanitary services Supply of hot and cold water to a residential building and its distribution – Fittings and fixtures used in system. sanitary fitting / appliances –and their use in disposal–system. Single pipe system, Two pipe system. Purpose and principles, collection and conveyance of waste matter.
Module 2 Electricity & Lighting	Different wires and types of wiring systems – open batten, conduits and casing, their advantages and disadvantages. Purpose of lighting – ambient, task and accent lighting; Forms of lighting sources – point, linear, planar and 3D sources, Lighting types – incandescent, fluorescent, CFLs, LEDs, halogen, etc.; Methods of lighting – direct & indirect, up lighting, down lighting, combination of up & down lighting, concealed lighting, etc.
Module 3 HVAC	Scheme and equipment required for HVAC; their placement and physical space requirements, Various systems of air conditioning; duct work and air conditioning layout, fittings and fixtures; evaporative cooling, Design and drawing of HVAC system for given space
Module 4 Security Systems	CCTV: Installation of CCTV, Wall Mount, ceiling mount, Camera addressing setting. Advance feature of auto scan, camera power, Parts description and function product specification Maintenance of CCTV Smoke detector: Design and principal, Commercial smoke detectors, Conventional and addressable smoke detector Alarm System: Design and sensor type, Passive infrared detectors ultrasonic detectors, Microwave detector, Photo electric beams, glass beam detector

REFERENCE BOOKS:

1. C.P. Arora, „Refrigeration & Air conditioning”
2. Interior design, Ahmed Kasu
3. N.B.C India
4. Building Construction and material, B.C Punamia

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