

RGPV (Diploma Wing ) Bhopal				SEMESTER TEACHING LEARNING & ASSESSMENT PLAN										FORMAT- 6				
NAME OF PROGRAMME		THREE YEARS DIPLOMA			SCHEME		OBE		IMPLEMENTING YEAR			2024-25						
BRANCH CODE		NAME OF BRANCH		INTERIOR DESIGN							SEMESTER		SECOND					
S. No	COURSE DETAILS						T-L PLAN		ASSESSMENT PLAN									
	COURSE CODE	COURSE NAME	CREDITS	PAPER CODE	No. of COs	No. of LOs	Total T-L Hrs.	T-L Hrs./Week	Internal Assessment		External Assessment (University Exam)						Grand Total of Marks	
									No. of LOs	Total Marks	Theory Paper			Practical Exam *				
No. of LOs	Total Marks	No. of LOs	Total Marks	Duration	No. of LOs	Total Marks	Duration											
1	201	INTERIOR DESIGN -I	4+2	-	02	-	-	08	-	40	-	-	-	-	60	3Hrs	100	
2	202	INTERIOR GRAPHICS-II	2+2	7655	05	-	-	02 + 04	-	30+ 20	-	70	3Hrs	-	30	3Hrs	150	
3	203	CONSTRUCTION TECHNIQUE-II	2+1	7656	02	-	-	02 + 02	-	30+ 20	-	70	3Hrs	-	30	3Hrs	150	
4	204	PRIMARY SERVICES –I (PLUMBING)	2	7657	05	-	-	02	-	30	-	70	3Hrs	-	-	-	100	
5	205	INTERIOR MATERIALS & PRODUCTS	2	7658	02	-	-	2	-	30	-	70	3Hrs	-	-	-	100	
6	206	ART APPRAISAL	2	-	02	-	-	4	-	40	-	-	-	-	60	3Hrs	100	
7		PROFESSIONAL DEVELOPMENT -II	2		03	06			-	75	-	-	-	-	-	-	75	
								36		275		280		120		675		
												No. of Theory Papers		04	No. of Practical Exams			04

# Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal

## DIPLOMA IN INTERIOR DESIGN SEM – IISEM

NAME OF SUBJECT – INTERIOR DESIGN- I

HRS PER WEEK-08(PRACTICAL) Credits : 04

Rationale -The subject intends to develop basic design understanding and also enhance the skills in planning of residential interior spaces with appropriate usage of materials, construction techniques and services required for design project. The students shall also learn to represent intellectual and creative ideas.

### Course outcomes

1. Able to analyze requirement and plan various activities in residential interiors
2. Able to recognize space design through anthropometrics and also able to differentiate the hierarchy of spaces through combination of various residential activities
3. Able to design simple residential interiors such as individual rooms i.e. living, dining, kitchen, bedroom, children bedroom, etc
4. Able to Design interior spaces of complex nature of medium scale residences

### UNIT-1 RESIDENTIAL INTERIOR DESIGN

Instructions regarding **Design Brief**; relevant aspects of materials, construction techniques, design and services; special emphasis towards **case studies, observations, analysis** and towards achieving individual interpretations manifested through **client profile** and **requirement framing**.

Prepare and present-scaled plan, sectional elevations and proportionate 3-D visuals all drawn and rendered manually that depict case studies, manifestations, concepts, schematics, presentation and technical drawings

**Assignment**—A 3BHK residence with technical representation mood boards, furniture layout, flooring layout, reflected false ceiling layout with completely rendered drawings. Also detail layouts, dimensional layout, all the four sectional elevations, views for individual rooms on the enlarged scale.

### REFERENCES-

1. Timesaver standard for interior design and space planning, Joseph De Chaira Jullius Panero Martin Zelnik, published by- McGraw Hill New York.
2. Interior Design, John Pile, Published By-Harry N. Adry Publishers.
3. Human Dimensions and Interior Spaces, Jullius Panero Martin Zelnik, Published By- Whitney Library New York.
4. Interior Design I Illustrated, FrancisDKChing, Published by–Van Norstrund, New Delhi.
5. Sanskruti—A Manual of Interior Design Vol-1, Sudhir Diwan, Published By- Interior Affairs, Mumbai.
6. Making the most of small spaces, Stephen Crafti, Images Pub Group, Pvt. Ltd
7. Living large in small spaces, Thames & Hudson
8. New small homes, Aurora Cuito, Loft Publications. S.L.
9. Design 02 Residential space I, II and III, Juzhu Kongjan

**Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal**  
**DIPLOMA IN INTERIORDSIGN SEM –IISEM**

NAME OF SUBJECT – InteriorGraphics-II  
HRS PERWEEK-02(Theory)+04 (PRACTICAL ) Credits : 02+02

Rationale-The course aims at learning the graphical language used extensively in communicating of design ideas; constructional methods and techniques in the form of technical drawing and presentation, proportion and scale by using Parallel line projections and 3-D views using perspective projections is also to be understood and to equip the students in skills of communicating with clients, consultants and contractors in the profession.

After completion of this course student will be able to-

1. Able to Develop presentation and technical drawings.
2. Able to visualize their design ideas from various angles and present these on paper.
3. Able to Use drafting instruments, graphical language and scale
4. Able to demonstrate drafting skills
5. Able to Graphically represent annotations, symbols, color, shades and shadows of objects.
6. Able to draw 2Dand3D sketches of objects, furniture and rooms

**UNIT-1 ELEMENTS AND PRINCIPLES OF PERSPECTIVE DRAWING**

Principles of perspective drawings and understanding of relevant terms like Picture Plane, Centre line of vision, Eye Level, Height Line, Vanishing Points, Cone of Vision, Station Point, Horizon line, Ground line etc. Basic principles of perspective drawing, various Types of perspectives - One point perspective, two point perspective and three point Perspective

Methods of sketching proportionate 2D and 3Dobjects,furniture and rooms.

Exercise on two point perspectives of simple objects and their combination by changing Positions of picture plane and stand point in form of Worm"s eye view, Normal eyeview and Birds eye view.

**UNIT-2 TWO POINT PERSPECTIVE VIEW OF OBJECTS**

Principle of one, two and three major axis convergence to form 1 point and 2 point perspective Construction of Two point perspective grid.

Exercise on Two point Perspective of building Interior by Direct projection Method/ Approximate Method.

Techniqueofdrawing2pointperspectiveassumingthepictureplaneinfront, behind and in between the object – Explained as combination of front and behind

**UNIT-3 ONE POINT INTERIOR PERSPECTIVE**

Construction of One point perspective grid,

Exercise on One point Interior view of any room viz Bed Room, Kitchen ,And Drawing room etc. by direct projection Method / Approximate Method

Technique of drawing1 point perspective assuming the picture plane infront, behind and in between the object – Explained as combination of front and behind

**UNIT-4 MEASURED DRAWING AND CRITICAL APPRAISAL**

Measured drawing of single plan

To measure and draw the Ground Floor Plan along with furniture layouts, four side elevations, two sections, reflected ceiling layout, and furniture design sketches of any existing residence (maximum of 100.0 sq. m. Plinth area).

In addition to this, drawings shall be prepared based on examples of buildings by giving a sketch

design (maximum of 100.0 sq. m Plinth area). The presentation may be supported by students notes on understanding about the project and their critical appraisal on the design and its usage.

#### **UNIT-5 RENDERING AND PRESENTATION TECHNIQUES**

Rendering techniques using Graphite and Color Pencils, Pen and Ink, Water colors, Photo colors – Fuji, Composites, Inks with watercolors, Inks with pencil colors, Study of rendering effects – sciography, light reflection.

Study of preparing presentation and technical drawing

#### **REFERENCES:**

1. K. Venugopal et al., “Engineering Drawing +AutoCAD”, New Age International Publishers, 2010.
2. Francis D.K Ching, “ Architectural Graphics- Fifth Edition”, John Wiley and Sons, New Jersey,2009.
3. RobertW.Gill,“PerspectivefromBasictoCreative”,ThamesandHudson,London,2006
4. John Montague, “Basic perspective Drawing A Visual Approach”, John Wiley and Sons, New Jersey, 2009.
5. LeslieMartinC.,“ArchitecturalGraphics”,theMacmillanCompany,NewYork,1978.
6. MilindMulick,“Perspective”,Jyotsnaprakashan,2006
7. ErnestNorling,“PerspectiveMadeEasy”,Doverpublications,1999
8. M.G. Shah & C.M .Kale, “Principles of Perspective Drawing”, Asia publishing House, 1965

# **Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal**

## **DIPLOMA IN INTERIORDSIGN SEM –IISEM**

NAME OF SUBJECT **CONSTRUCTIONTECHNIQUE-II**

HRS PERWEEK-02(Theory)+042(PRACTICAL ) Credits : 02+01

### **RATIONALE-**

The subject intends to equip the students with knowledge and understanding of construction of ceiling, floors, steps, stairs, ladders and residential furniture

### **COURSEOUTCOME:**

After completion of this course student will be able to-

1. Able to Define-Construction of Doors and Windows in Timber.
2. Able to Select or design – appropriate joinery to be used while designing furniture items
3. Able to assemble and construct functional and aesthetic furniture for use in residence interior spaces.

### **UNIT-1CONSTRUCTIONTECHNIQUESOFBUILDINGCOMPONENTS**

**DOORS(TIMBER):Timbers doors Study of various types of wooden joint.  
Different types of doors as per their utility function.**

Details of single and double leaf ledged and battened doors, legged braced door, Framed braced and battened door Paneled door ,flush door, composite door etc.

**WINDOWS & VENTILATORS (TIMBER): Different type of windows as Per their utility and functions.**

Casement window and sidehug ,tophug, fixed ligh to different size and shape. Sliding pivoted (horizontal and vertical) folding and bay windows. Combined doors and windows and ventilators

**MISCELLANEOUS: Jamcasing, architrave, pelmet, moldings, skirting and window boards, Door and window fixtures.**

### **UNIT-2**

#### **RESIDENTIAL FURNITURE-I**

**Focusing on need, requirement, options, form, finish, materials, construction and hardware; learning to design and prepare construction drawing of-**

Different types of shelves, storages such as wardrobe, overhead, display and showcases etc. including understanding different options for carcass, shutters, drawers and internal shelves. Kitchen storages such as trolley type, shelved, modular kitchen storages.

### **UNIT-3**

#### **RESIDENTIAL FURNITURE–II**

Different types of seats such as stools (low & high), puffy (for living, dressing, bed-end, etc.), chairs (for living, dining, bed, desk-work, sofas – 1, 2, & 3 seater) Different types of tables such as side & center tables (for living, dining, bed, terrace, and garden), work – tables such as dressing, study; different types of bed such as divan, single- bed, double-bed, bunk-bed, combination-bed,etc. with or without storage

## **REFERENCES:**

1. W.B.MCKAY, "Building Construction Vol.1, Orient Longman.
2. R.CHUDLEY, Building Construction Handbook Vol.1 to 4 "British Library Cataloguing in Publication Data 1990
3. Interior Design, John Pile, Harry N. Andry Publishers
4. Timesaver standard for interior design and space planning.
5. Interior Design, Ahmed Kasu, TWAIN Pub. Bombay
6. Harold B. Olin, John L. Schmidt - Construction principles, Materials and Methods - John Wiley & Sons, Inc.
7. Human Dimensions and Interior Spaces, Julius Panero, Martin Zelnik, Whitney Library New York
8. Beginning of Interior Environment Phillis Sleen Allen, New York
9. Basic Design of Anthropometry, Shirish Bapat, Belabooks Publishers
10. Interior Design Illustrated, Francis D.K. Ching, Van Nostrand, New Delhi
11. Design Fundamentals in 1<sup>st</sup> architecture, V.S. Parmar, Somaiya Pub Pvt. Ltd.  
Techniques of interior construction - part 1, Vasudeo Channapattan, Mrs Vidya Channapattan Pune

# **Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal**

## **DIPLOMA IN INTERIORDESIGN SEM –IISEM**

NAME OF SUBJECT **PRIMARYSERVICES-I (PLUMBING)**

HRS PERWEEK-02(Theory)Credits : 02

### **COURSE OUTCOME:**

The subject intends to equip students with the concept and principles of basic services. It will develop their skills in understanding the function of services and help optimize the resources such as water supply and plumbing. It will also develop the analytical skill in designing appropriate services layout and schemes.

### **COURSE OUTCOME:**

After completion of course the students will be able to:

1. Able to apply concepts of primary services such as water supply and plumbing.
2. Able to use appropriate resources including optimization.
3. Able to design Plumbing layout and draw plumbing working drawings with specifications for interior spaces such as Kitchens, toilets, baths, washing machines, dishwasher, refrigerator, loft tanks etc. Detail for bath Tubs, Rain Shower, Shower system, Jacuzzis.
4. Able to identify the different sources of water, list them and describe the method of intake and water purification.
5. Able to apply of all the above systems to Interior spaces, Small Campus and a Residential neighborhood.

### **UNIT-1 WATER SUPPLY**

**Sources of water supply**–Water Quality-Water requirements for different types of buildings and for town, simple method of removal of impurities, Rainwater harvesting to include roof top harvesting, type of spouts, sizes of rainwater pipes and typical detail of a water harvesting pit.

**System of supply** - continuous and intermittent supply, sump, overhead tanks, pumps, distribution pipes, cold water and hot water supply. Pipes sizes, types – GI, CPVC, Copper, Cast Iron(CI)Pipes,SteelPipes,AsbestosCement(AC)Pipe,ConcretePipesfittings,valves,andtypes of taps.

### **UNIT-2**

#### **TYPES, SIZES AND QUALITY OF PLUMBING FIXTURES**

Types and sizes of sanitary wares such as wash hand basins, sinks, pans, pipes, plumbing faucets such as taps, showers, bathroom accessories etc.

Types and sizes of bathroom accessories such as roll holders, soap dishes, towel rods, napkin holders and other racks, hooks and rings.

### **UNIT3**

#### **COLD AND HOT WATER DISTRIBUTION AND MIXING SYSTEMS USING LOFTTANKS, GEYSERS, BOILERS, MIXERS, DIVERTERS**

Open and closed distribution system for–cooking and drinking water supply; washing–manual and machine based; bathing – modes such as shower, pressure jets, tubs etc.

## REFERENCES:

1. Birdie G. Sand Birdie J. S Water Supply & Sanitary Engineering, Dhanpat Rai Publishing Company (p) Ltd (2010)
2. S.K.Garg, Water Supply Engineering: Environmental Engineering v. Khanna publishers 2010
3. Charangithshah, Water supply and sanitary engineering, Galgotia publishers.
4. Kamala & DL Kanth Rao, Environmental Engineering, Tata McGraw-Hill publishing company Limited.
5. National Building Code 2005.

# **Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal**

## **DIPLOMA IN INTERIOR DESIGN SEM – I SEM**

NAME OF SUBJECT- **INTERIOR MATERIALS & PRODUCTS**

HRS PER WEEK-02(Theory)Credits : 02

### **COURSE OUTCOME:**

Rationale To understand various materials that are used in building interiors with reference to the material properties, feasibility, availability, durability and sustenance to climatic conditions and also the aesthetic value it will add with its use.

For all the mentioned materials a basic understanding of the market research and current trend analysis will be cumulated through Market Research and Presentations by students there upon.

### **COURSE OUTCOME:**

1. Able to select appropriate materials for different purpose and conditions
2. Able to carry out market survey of materials
3. Able to find and judge the current trends

### **UNIT-1 INTRODUCTION**

Basic Building components: Elementary knowledge of different components. Study of constituents, properties and uses of different building materials.

### **UNIT-2 STONES, BRICKS AND TILES**

STONES: Various types, their properties and uses in interior of various types such as offices, residences, restaurants, shops, etc.

BRICKS/TILES: Qualities of various buildings, types of bricks and their uses in various types of interiors.

Clay products- tiles, terracota, ceramics - uses and application.

DECORATIVE TILES: Various types-ceramic, glazed, vinyl tiles, their Properties and use.

### **UNIT-3 PLASTERS**

PLASTERS : Different types of plaster finishes - neeru, sand, faced, rough cast, pebble - dash, gypsum their defects & repairs, various mixes used in plaster curing and finishing of plaster, Mudplaster, ingredients, advantages and disadvantages of special materials used in Plastering, Plaster of Paris, barium, gypsum, etc.

### **UNIT-4 GLASS**

GLASS: Types and Manufacturing of glasses. Treatments on glass. Glass in building industry. Interior use of glass. Properties, sizes, design, price and availability of : Sheet, Plate, Wired, Laminated, Safety, insulating, coloured, tinted, heat resistant and glass blocks.

### **UNIT-5 THERMAL ACOUSTIC MATERIALS**

THERMAL ACOUSTIC MATERIALS : Study of different types of materials used for sound proofing. Properties and use of the following : Polyurethane products such as low density and high density, fiber glasses.

### **REFERENCES:**

1. Bindra, S.P. and Arora, S.P. Building Construction: Planning Techniques and Methods of Construction, 19th ed. Dhanpat Rai Pub., New Delhi, 2000.
2. Moxley, R. Mitchell's Elementary Building Construction, Technical Press Ltd.
3. Rangwala, S.C. Building Construction 22nd ed. Charota Pub. House Anand, 2004.
4. Sushil Kumar, T.B. of Building Construction 19th ed. Standard Pub. Delhi, 2003.
5. Chowdary, K.P. Engineering Materials used in India, 7th ed. Oxford and IBH, New Delhi, 1990.
6. Rangwala, S.C. Building Construction: Materials and types of Construction, 3rd ed. John Wiley and Sons, Inc., New York, 1963.
7. Francis D. Ching, Building Construction Illustrated, Wiley publishers, 2008.

# **Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal**

## **DIPLOMA IN INTERIOR DESIGN SEM – IISEM**

NAME OF SUBJECT- **ART APPRAISAL**

HRS PER WEEK-04(practical) Credits : 02

Rationale –To understand art and aesthetics, its significance in interior design. By studying various art forms, historical movements, and aesthetic principles, students develop the ability to analyze and evaluate artworks critically.

Additionally, the course introduces students to the principles of art valuation, authentication, and market trends, providing insights into the business side of the art industry, practical exploration of painting styles and rendering techniques, students gain hands-on experience in artistic composition, material selection, and digital visualization.

### **UNIT-1 INTRODUCTION-UNDERSTAND ART AND AESTHETICS**

Define and explain the fundamental elements and principles of art.  
Analyze how aesthetics influence interior design and spatial experience.

### **UNIT-2 IDENTIFY AND EVALUATE DIFFERENT ART FORMS**

Recognize various art forms, including paintings, sculptures, and mixed media.  
Distinguish between traditional, modern, and contemporary art movements.

### **UNIT-3 RENDERING TECHNIQUES**

Experiment with different painting techniques (watercolor, acrylic, oil, charcoal). Create rendered artworks and visual compositions for interior applications.  
Develop a personal portfolio showcasing art studies, rendering techniques, and curated interior spaces. Present a final project demonstrating art integration in interior design.

### **REFERENCES:**

**1. Art Fundamentals: Theory and Practice**—Otto G. Ocvirk, Robert E. Stinson, Philip R. Wigg  
*Covers the fundamental elements and principles of art with practical applications.*

**2. The Story of Art**—E.H. Gombrich

*A comprehensive history of art from prehistoric to contemporary times.*

**3. The Elements of Modern Architecture: Understanding Contemporary Buildings**—Antony Radford, Selen Morkoç

*Explores the influence of modern art movements on architecture and interior design.*

**4. The Art Book**—Phaidon Editors

*A visual guide covering major artists, styles, and movements with easy-to-understand descriptions.*