



**UTTARAKHAND BOARD OF TECHNICAL EDUCATION**

**JOINT ENTRANCE EXAMINATION AND TRAINING, RESEARCH DEVELOPMENT CELL, DEHRADUN  
STUDY AND EVALUATION SCHEME FOR DIPLOMA PROGRAMME**

**BRANCH NAME– INTERIOR DESIGN**

**SEMESTER – III**

Subject Code	Subject	L	T	P	T	EVALUATION SCHEME						Total Marks	Credit Point
						Internal			External				
						Theory Max Marks	Practical Max Marks	Theory Hrs.	Theory Hrs.	Practical Max Marks	Practical Hrs.		
133003	History of Interior Design	3	3	-	6	25	-	75	2.5	-	-	100	6
133005	Period Furniture	2	-	6	8	-	25	100	3.0	25	3.0	150	5
133002	Computer Aided Design	-	-	6	6	-	50	-	-	50	2.5	100	5
133004	Interior Design - II	2	-	10	12	-	100	175	**12.0	50	3.0	325	6
133001	Building Construction - II	2	-	10	12	-	100	100	3.0	75	3.0	275	6
133052	Industrial Exposure (Assessment at Inst. Level) +	-	-	-	-	-	25	-	-	-	-	25	1
013054	General Proficiency (Disc/ Game/ SCA/NCC/NSS) #	-	-	4	4	-	25	-	-	-	-	25	1
	<b>Total</b>	<b>9</b>	<b>3</b>	<b>36</b>	<b>48</b>	<b>25</b>	<b>325</b>	<b>450</b>	<b>-</b>	<b>200</b>	<b>-</b>	<b>1000</b>	<b>30</b>

# General Proficiency will comprise of various co-curricular activities like games, hobby clubs, seminars, declamation contests, extension lectures, NCC, NSS and cultural activities, elementary mathematics, GS & G.K. etc.

+ Industrial Exposure compulsory at minimum 2 industries or Department.

**Note:-** 1- Each period will be 50 minutes. 2- Each session will be of 16 weeks. 3- Effective teaching will be at least 12.5 weeks.

\*\* External theory paper will be continue for two days i.e. 6 hrs each day out of total 12 hrs.

**Branch Code - 13**



**THIRD SEMESTER  
INTERIOR DESIGN**



# HISTORY OF INTERIOR DESIGN

L	T	P
3	3	-

Subject Code : 133003

## RATIONALE

This course aims at creating appreciation among the students about history and development of art and culture and its impact on interior design.

## DETAILED CONTENTS

1. Study of Hindu temple architecture. ( Lingaraja temple, Sun temple and Kandariya Mahadev temple )
2. Study of Mughal architecture.(Taj Mahal, Red Fort and Fatehpur Sikri)
3. Decorative features of Buddhist Architecture.
4. Gothic, Greek and Roman Architectural features and motifs.
5. Architectural styles of following Architects (I) LAURIE BAKER (II) EDWIN LUTYENS (III) LE-CORBUSIER (IV) HAFEEZ CONTRACTOR NOTE: Emphasis on sketches. Evaluation should be done in internal exams exclusively for sketches.
6. Study of symbolic figures, forms and motifs of different schools and periods from Renaissance onwards Italy, France and England.

### Note:-

The above topics will be studied in reference to motifs, symbols, plan and elevation pertaining to the topic.

## RECOMMENDED BOOKS

1. Oxford History of Art: Indian Art by Partha Mitter
2. Marg Magazine of the Arts
3. Encyclopedia Britannica

# PERIOD FURNITURE

L	T	P
2	-	6

**Subject Code : 133005**

## RATIONALE

The content of this subject is designed to understand various Furniture Styles and their distinctive components. Furniture styles can be determined by careful study and remembering what design elements each one embraces.

## DETAILED CONTENTS

<b>FURNITURE STYLE:</b>	<b>No. of Sheets</b>
1. Late 18th – Early 19th century French: Directoire Empire	01
2. 17th and 18th Century American: Colonial	01
3. Late 18th – Early 19th Century French: Louis xiv, xv and xvi	01
4. 17th Century English: Jacobean	01
5. 17th Century English: William & Mary	01
6. 18th Century English: Queen Anne	01
7. 18th Century English: Georgian (Chippendale)	01
8. 18th Century English: Late Georgian (Hepplewhite)	01
9. 18th Century English: Late Georgian (Sheraton)	01
10. 18th Century English: Late Georgian (Brothers Adam)	01
11. Arts and Craft	01
12. Art Deco	01
13. Modernism	01

### Note:

1. Only sheet work will be done on each style.
2. A brief introduction of each style must be taught along with the detailed drawings.

<b>L</b>	<b>T</b>	<b>P</b>
-	-	<b>6</b>

**Subject Code : 133002**

## **RATIONALE**

In the present times an interior designer should be capable of drafting drawings on the computer. Due to increasing need for computerized drawings by most architects and interior designer for their ease of drafting, editing, managing and presentation. At the end of the course the students should be able to make 2-D architectural drawings for presentation and constructional purposes. The student should get familiar with the latest CAD software.

## **DETAILED CONTENTS**

**Note:** Relevant theory may be taught along with practical exercises in each topic.

### **1. Introduction to 2-D CAD (6 hrs)**

- Starting AutoCAD
- Options to create new drawings
- Units
- Limits
- Zoom
- Pan
- Snap
- Grid
- Ortho
- Commands in the menu
- Save, save as, quit, close, exit.
- Open a new, existing drawing

**Exercise:** Setting up a new drawing with units, limits, etc and creating files and folders.

### **2. Drawing Commands (10 hrs)**

- Line
- Poly line/Double line.
- Arc
- Ellipse

- Polygon
- Rectangle
- Circle
- Sketch
- Hatch
- Donuts
- Layer and its application
- Purge

**Exercise:** Making a composition of different geometrical shapes using various drawing commands.

### **3. Modifying an Existing Drawing (17 hrs) .**

- Redraw and regen all
- Regen auto
- Undo Redo/loops
- Trim
- Move
- Offset
- Rotate
- Array
- Stretch
- Divide
- Chamfer
- Erase
- Break
- Copy, multiple copy
- Mirror
- Change (change properties, match properties) .
- Extend
- Explode
- Scale
- Fillet

**Exercise:** Modifying composition, making plan, elevation and section of simple building.

#### **4. Dimensioning and Text (13 hrs) .**

- Dimension type, style, units.
- Dimension utilities and variables.
- Dimensioning of different elements like (Horizontal, vertical, inclined, Arc, Circle, Radius, diameter), continuous dimensioning etc. .
- Editing dimension text and updating (adding new text and editing existing text)
- Text style- font types, height, width etc.
- Text commands like M-text and D-text ) .
- Making seals for drawings

**Exercise:** Dimensioning and editing text in composition made in Sections 3 and 4.

#### **5. Making and Inserting Blocks .**

- Blocks
- Insert block
- Base
- Using library for blocks
- W-block

**Exercise:** Inserting furniture, fixtures, trees etc. in the plans, elevations and sections.

#### **6. Plotting Drawings**

- Plot command
- Selecting plot device
- Selecting paper size and type
- Scale of plot
- Selecting black and white or colored plots
- Selecting area for plotting
- Selecting appropriate print speed, quality
- Print preview

### **INSTRUCTIONAL STRATEGY**

The teachers should lay emphasis on developing computer operating skills in the students. Expert lectures and field demonstration may be arranged.

### **RECOMMENDED BOOKS**

1. AutoCAD Manual
2. IntelliCAD Manual
3. AutoCAD Bible Series by Ellen Finkelstein



<b>L</b>	<b>T</b>	<b>P</b>
<b>2</b>	<b>-</b>	<b>10</b>

**Subject Code : 133004**

## **RATIONALE**

This subject will focus on office and institutional design. Emphasis will be placed on commercial precedents, design process, human, equipment, finishes and lighting.

## **DETAILED CONTENTS**

### **1. Introduction to commercial buildings:**

- a) Types of offices.
- b) Anthropometric data relating to the offices.
- c) Study of the changing requirements and new trends of the office spaces.

### **2. Design Scheme**

**(Six Sheets)**

Designing of office spaces like: travel agency, lawyer's office, educational institute, advertising agency, bank, multi-national company, insurance company, architect's office, interior designer's office and export/fashion houses.

The students will be required to prepare detailed drawings:

- a) Plan showing furniture layout (01 Sheet)
- b) 4 wall sectional elevation (02 Sheet)
- c) Flooring pattern (01 Sheet)
- d) Ceiling design (01 Sheet)
- e) Wall treatment (01 Sheet)
- f) Partitions (01 Sheet)
- g) Details of furniture (01 Sheet)
- h) Furnishings and materials (01 Sheet)
- i) Perspective views of any 2 major areas (02 Sheet)

## **EXERCISES**

### **1. Case study**

- Before starting the project, the students will be required to do research work on the functioning of an office with special emphasis on the physical, social and psychological requirements.
- Students will prepare a report for the same.

2. A minimum area of 2000 sqft. will be provided to the students. Based upon the chosen office, the students will work out the various spatial requirements of the office.

**Note:**

1. Survey and Case Study to be evaluated at internal exam level through a presentation.
2. Relevant theory will be taught along with studio work.
3. Students will be taken for site visits as required.

**RECOMMENDED BOOKS**

- Times Saver Standard
- Periodicals and Magazines

<b>L</b>	<b>T</b>	<b>P</b>
<b>2</b>	<b>-</b>	<b>10</b>

**Subject Code : 133001**

### **RATIONALE**

After having a basic knowledge of interior components for interior decoration involving timber work, Knowledge of floor finishing is also required. How to design partitions, false ceiling, staircases, Mezzanine Floors, roofs, floors etc., their application, detailed drawing and practical work. This semester focus on detailed interior components.

#### **1. Partitions: Introduction, Types of partition, Various materials used for partitions**

- a) Simple partition in wood, glass and metal. (03 Sheets)
- b) Movable partitions. (01 Sheet)
- c) Design of a sound proof cabin. (01 Sheet)

#### **2. False Ceiling: Introduction, Types and Material**

- a) Wooden false ceiling. (01 Sheet)
- b) POP false ceiling. (01 Sheet)
- c) Luxlon false ceiling. (01 Sheet)
- d) Ceiling treatment: What to do about damaged ceiling, acoustical tiles, cementing, papering ceiling and keeping in mind the optical illusion effect as designed in the decorating schemes. (02 Sheets)

#### **3. Staircases: Introduction, Types of staircases, Parts of staircases and latest Finishes.**

- a) Different types of stairs (01 Sheet)
- b) Open – well stairs (01 Sheet)
- c) Dog leg stairs (01 Sheet)
- d) Straight flight stair (01 Sheet)
- e) Metal stairs (01 Sheet)

#### **4. Mezzanine Floors: Introduction and it's Applications.**

- a) Plan, elevation and section through stair. (01 Sheet)

**5. Roof: Introduction, Types of roofs and trusses.**

- |                          |            |
|--------------------------|------------|
| a) RCC flat roof         | (01 Sheet) |
| b) Pitched roof          | (01 Sheet) |
| c) King post (wood only) | (01 Sheet) |
| d) Queen post            | (01 Sheet) |

**6. Floors: Introduction, Types of floors.**

- |   |            |
|---|------------|
| a) RCC floor                                    | (01 Sheet) |
| b) Wooden floor                                 | (01 Sheet) |
| c) PVC floor                                    | (01 Sheet) |
| d) Design of a floor pattern using floor tiles. | (01 Sheet) |

**Note:**

- Relevant theory should be taught along with the sheet work.
- There will be no theory in the paper.

**RECOMMENDED BOOKS**

1. A text book of building construction by W.B. Mackay
2. A text book of building construction by Sushil Kumar.
3. A text book of building construction by Sikka.
4. A text book of building construction by S.K Sharma and B.K Kaul.







## LEARNING OUT COMES AND MEANS OF ASSESSMENT

### BRANCH NAME – INTERIOR DESIGN SEMESTER – III

S.No.	Title of Subject/Unit	Learning Outcomes	Means of Assessment
1	History of Interior Design	<ul style="list-style-type: none"> <li>To must have knowledge of interior, architectural styles used in early centuries.</li> </ul>	<ul style="list-style-type: none"> <li>PPT</li> <li>Drawings</li> </ul>
2	Period Furniture	<ul style="list-style-type: none"> <li>To must have knowledge of furniture styles used in early century.</li> </ul>	<ul style="list-style-type: none"> <li>Sketches/Drawing</li> </ul>
3	Computer Aided Design	<ul style="list-style-type: none"> <li>Able to produce architectural &amp; interior 2D drawings, drafting is software.</li> </ul>	<ul style="list-style-type: none"> <li>CAD Drawings</li> </ul>
4	Interior Design - II	<ul style="list-style-type: none"> <li>Able to develop office &amp; institutional interior space planning including materials, finishes layouts &amp; material board.</li> </ul>	<ul style="list-style-type: none"> <li>Presentation Drawings</li> <li>Model</li> <li>Case Study</li> </ul>
5	Building Construction - II	<ul style="list-style-type: none"> <li>Must have knowledge of detailed interior/ construction components.</li> </ul>	<ul style="list-style-type: none"> <li>PPT</li> <li>Drawing</li> </ul>



