

# **Residential Interior Space Design**

#### Unit 1

- Introduction of Design
- Elements of Design
- Principles of Design
- Introduction of Interior Design
- Standard Dimensions of Living Room Furniture

# Unit-II

- Dining Area Furniture
- Bedroom Furniture
- Kitchen Furniture
- Bathroom / Toilet (Sanitary Wares)
- Measurement Plan

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# Unit-III

- Bubble Diagram and Furniture Layout
- Interior Elevations of Walls
- Planning of Living Room
- Planning of Dining Area
- Planning of Bedroom
- Planning of Kitchen

## Unit-IV

- Planning of Bathroom
- Planning of the Circulation Space
- Flooring Layout
- False Ceiling
- Electrical Layout
- Room Orientation

# **Building Materials - I**

# Unit-I

#### **Brick:**

- Qualities of good brick, ٠
- Field test, •
- Terminology,
- Precautions to be taken in brick laying & size. ٠

# Stone:

- Classification, •
- Qualities of good stone ٠
- Laying ٠
- Dressing ٠
- Different textures and applications. ٠

# Unit-II

# Sand:

• Types and application

## **Timber:**

- Types,
- Cross sections of exogenous tree ٠
- Defects in timber, •
- Seasoning, ٠
- Application in interior, ٠
- fies Nation Application of artificial timber e.g. veneers plywood. ٠

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# Unit-III

# Cement:

- Types, •
- Field test for cement ٠
- Application of cement ٠

# Mortar:

- Types
- Application ٠
- **Clay Products:** 
  - Types ٠
  - Application •

# Lime:

٠ Types Application

# Unit-IV

# Stone Ware and Porcelain:

Application in Interior Design

#### **Concrete:**

- Types
- Application
- Precautions to be taken in handling and transportation.

#### Glass:

- Types
  - Applications of glass in various interiors.

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# **Paints:**

• Varnishes: Types and applications in various interiors.

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# Hard ware:

• Types and application

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# **Commercial Interior Space Design**

#### Unit-I

- Introduction to design
- Standard dimensions of office furniture
- Waiting area furniture
- Office table computer work furniture

#### Unit-II

- Staff cabin furniture
- Office files storage and cabinets
- Common areas

#### Unit-III

- Main cabins
- Conference room
- Pantry area
- Canteen

## Unit-IV

- WCs
- Store room
- Planning of the circulation space

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• Planning of office

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# **Residential Interior Space Design- Project -I**

# Unit 1

- Design brief
- Picture board 3
- Principles of Design 3 sheets
- Measurement Plan-1

## Unit-II

- Civil Changes layout -1
- Bubble diagram (5 sheets)
- Concept of Design (write-up)
- Furniture layout

# Unit-III

- Elevation (12 Sheets)
- Flooring layout
- Reflected False ceiling layout
- Electrical layout
- Plumbing layout

# Unit-IV

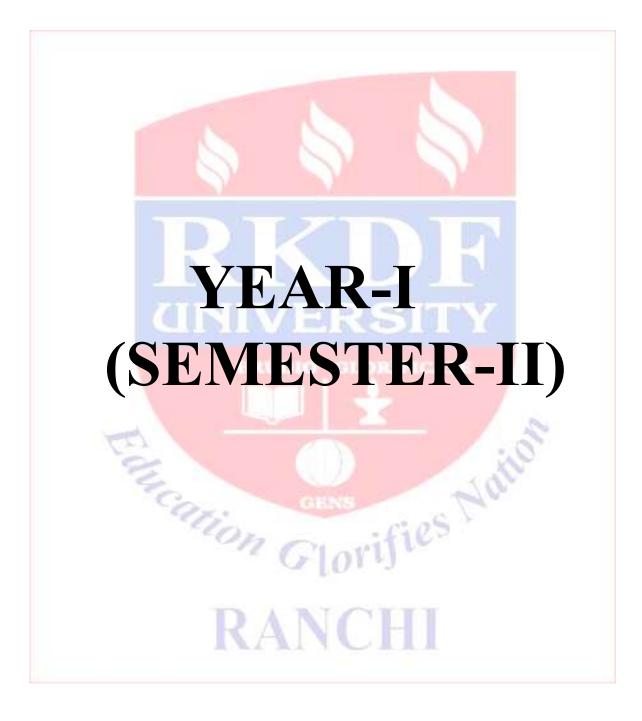
- A/C layout
- Perspective (10 Sheets)
- Perspective of external facade
- Material Chart
- Estimate
- Model

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# **Commercial Interior Space Design- Project - II**





# **Drawings and Graphics**

# Unit-I

# Draftsmanship

- 1. Introduction to Draftsmanship
- 2. Need for training, duties determining needs and wishes of the client
- 3. Relationship between two-dimensional and three dimensional diagrams

# Unit 2

# **Drafting Tools and techniques**

- 1. Introduction of drawing table and boards, How to handle handling paper and pencil.
- 2. Types of scales, Tools for curves and irregular forms Drawing aids.
- 3. Drafting mediums Tracing papers, tracing cloth, water colour paper, sketch paper, vellum and polyester film.

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# Unit 3:

## **Basics of Drawing**

- 1. Measurements
- 2. Lines Types of lines and lines thickness
- 3. Lettering Single stroke letter, Gothic letters.
- 4. Dimensioning Types of dimensioning, different types of dimensioning lines
- 5. Drawing and drawing methods
- 6. Geometrical figures

## Unit-IV

## **Architectural Symbols**

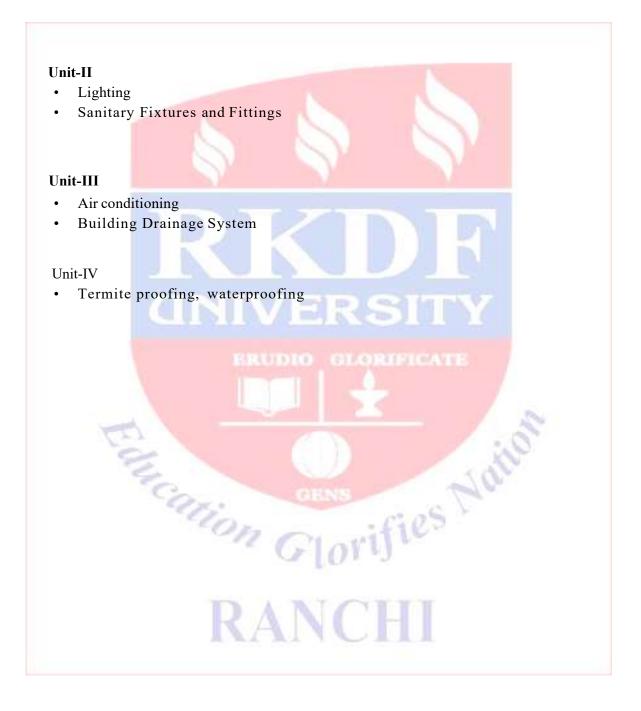
- 1. Structural symbols, window and door symbols.
- 2. Plumbing symbols and electrical symbols. Architectural Drawing
- 1. Orthographic and isometric Projection
- 2. Perspective Projection one point and two point Free Hand
- 3. Sciography Shades and Shadow of objects, Presentation Techniques
- 4. Rendering and Coloring
- 5. Presentation Drawing, Perspective Projection

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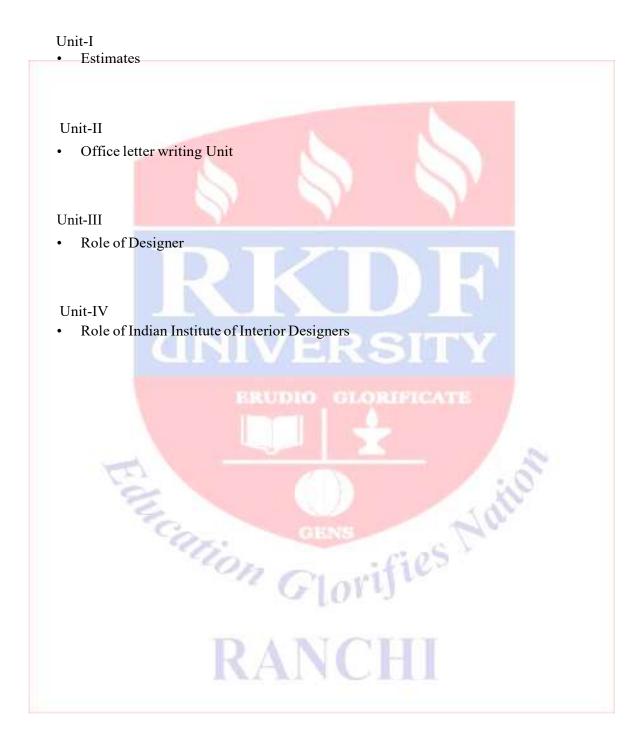
# **Building Services - I**

#### Unit-I

- Fire Protection System
- Acoustics



# **Professional Practice - I**



## **Drawing and Graphics – Practical -I**

# Unit-I

# Draftsmanship

- 1. Introduction to Draftsmanship
- 2. Need for training, duties determining needs and wishes of the client
- 3. Relationship between two-dimensional and three dimensional diagrams

#### Unit 2

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- 5. Drawing and drawing methods
- 6. Geometrical figures

#### Unit 4

#### **Architectural Symbols**

- 1. Structural symbols, window and door symbols.
- 2. Plumbing symbols and electrical symbols

## **Architectural Drawing**

- 1. Orthographic and isometric Projection
- 2. Perspective Projection one point and two point Free Hand
- 3. Sciography Shades and Shadow of objects, Presentation Techniques
- 4. Rendering and Coloring
- 5. Presentation Drawing, Perspective Projection

#### **Building Materials - Practical - II**

#### Unit-I Brick:

- Qualities of good brick,
- Field test,
- Terminology,
- Precautions to be taken in brick laying & size. Unit No. 2: Stone:
- Classification,
- Qualities of good stone
- Laying
- Dressing
- Different textures and applications. Unit No. 3: Sand:
- Types and application

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# Unit-II **Timber:**

- Types,
- Cross sections of exogenous tree
- Defects in timber,
- Seasoning,
- Application in interior,
- Application of artificial timber e.g. veneers plywood.

# **Cement:**

- Types,
- Field test for cement
- Application of cement

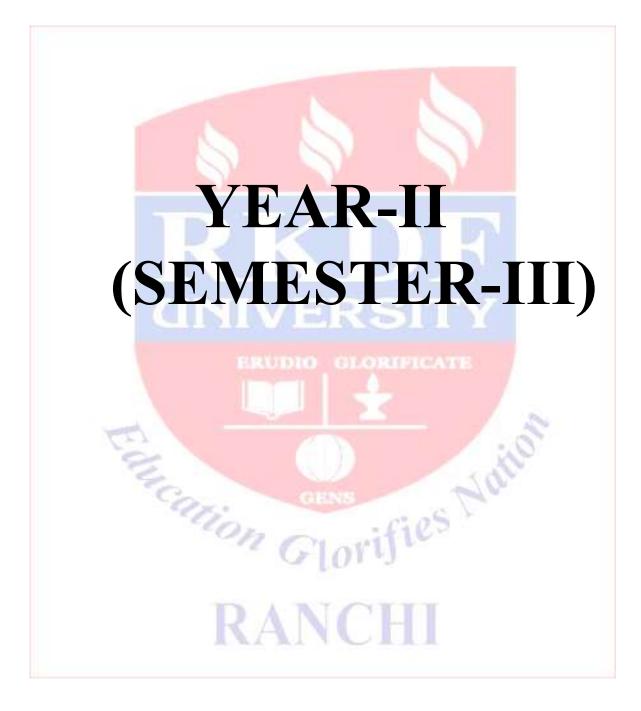
# Unit-III

- Mortar:
- Types
- Application Clay Products:
- Types
- Application

# Lime:

- Types
- Application
- **Stone Ware and Porcelain:**
- Application in Interior Design

# Unit-IV **Concrete:** Types • Application • Precautions to be taken in handling and transportation. • **Glass:** Types • • Applications of glass in various interiors. Paints: • Varnishes: Types and applications in various interiors. Hard ware: Types and application • UNIVERS orifies Nation Equation G RANCHI



# **Design with Thesis**

**Objectives:** Implement the theoretical and practical knowledge gained through the curriculum into an application suitable for a real practical working environment preferably in an industrial environment.

Get exposure on industrial environment and its work ethics. Acquire the practical knowledge regarding the working procedure.

To get acquainted with the basic interior design concepts related to the Interior Business.

Learn and understand the gap between the technological knowledge acquired through curriculum and the actual industrial need and to compensate it by acquiring additional knowledge as required.

# **Procedure:**

Students have to select any one topic of their own interest under the guidance of the department faculty in their area of specialization, emphasizing the principles studied in the theory and practical subjects.

Each student shall finally produce a comprehensive report covering the Project Work details such as Architectural Design, Working Drawing, Model and Approximate estimate of the Project and Conclusion.

The Project shall be Planning and designing of any one of the following: 1. Residential Building, 2. College Building, 3. Hostel Building, 4. Hotel Building, 5. Nursing Home, 6. School Building, 7. Guest House, 8. Bank Building, 9. Shopping Complex, 10.Community Hall, 11.Theatre 12. Apartment 13. Staff Quarters 14. Restaurant (The building selected should have a minimum of TWO floors.)

## The report/ thesis should consist of:

Unit-I

- Objective of the report
- Acknowledgements

## Unit-II

- Introduction of the report •
- ifies Natic Detailed description of the traditional aspects

## Unit-III

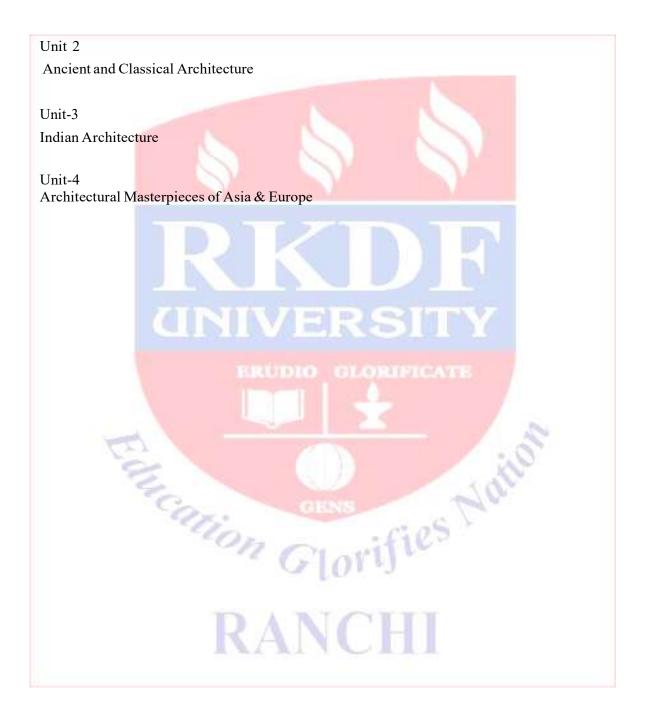
- Illustrations of the garments designed
- Specification sheet of the final garment
- Sketch/ Picture of the final garment •

#### Unit-IV

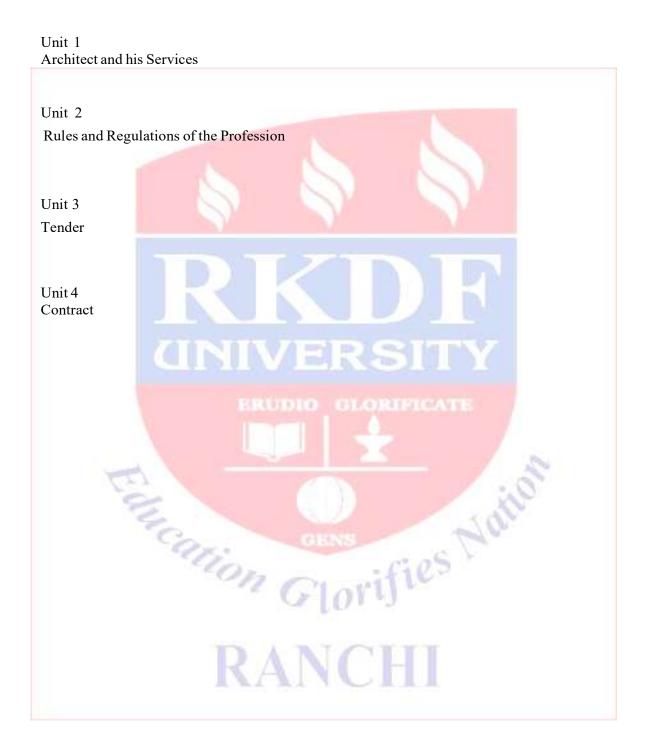
- Summary of the report
- Bibliography

MSCID302 **Theory of Architecture** 

Unit 1 Introduction to Architecture



# **Professional Practice-II**



# **Working Drawing**

#### Unit 1

- Acoustic Door
- Window Seating

#### Unit-II

- Unit No. 6: Bar Counter Suspended ceiling (illuminated)
- Partly Glazed Partition T.W.
- Partition Aluminum

# Unit-III

- Telephone Booth
- Screen for Stage (Wings)

# Unit-IV

- Display Board
- Spiral Staircase

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## Working Drawing- (Practical –I)

#### Unit 1

- Acoustic Door
- Window Seating

## Unit-II

- Suspended ceiling (illuminated)
- Partly Glazed Partition T.W.
- Partition Aluminum

Unit-III

- Bar Counter
- Telephone Booth
- Screen for Stage (Wings)

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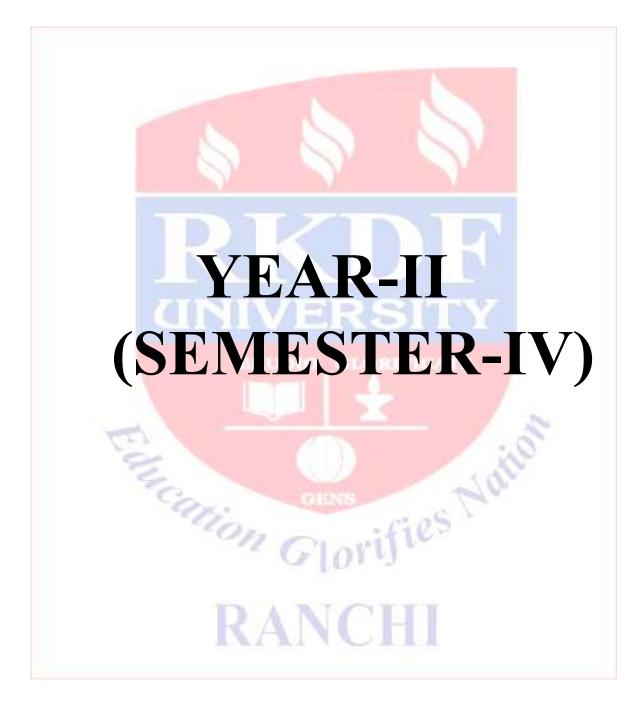
# Unit-IV

- Display Board
- Spiral Staircase

Note: The Portfolio should cover sheet from all the chapters mentioned below

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# **Building Services - II**

#### Unit 1

Introduction to mechanical ventilation in buildings Air-conditioning; Types of Air- conditioning; Systems in air-conditioning; Exhaust system, combines system movements

# Unit 2

Fire hazards in buildings - i) Cause and spread of fire ii) Firefighting equipment and different methods of fighting fire; Code of safety prescribed by I.S.I.

## Unit 3

Principles of heat and sound propagation; Methods of achieving good acoustic condition in auditoriums, classrooms, etc. Construction details for acoustic treatment of rooms

#### Unit 4

Introduction to different type of artificial l lighting systems, light sources and luminaries, Application of lighting system, Design for lighting in - Shops and show windows, Offices, Classroom and lecture halls, Stage, Auditorium, etc.

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# **Building Materials - II**

#### Unit 1

**Concrete:** Types, application, precautions to be taken in handling and transportation. furnishing and cladding materials **Glass:** Types, applications of glass to various interiors.

Unit-II

Paints, varnishes, Types, and applications in various interiors. Distempers Types, applications in various interiors. Iron: Pig iron, Wrought iron, Cast iron, applications Unit

Unit-III Non-Ferrous Metals Steel and its uses

Unit-IV Plastics: Classification, application etc. Hard ware: Types and application Furnishing Materials

Education

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CAD

## Unit. 1

- Introduction
- An Overview of CAD
- Advantages of Auto CAD

# Unit-II

- AutoCAD system requirements
- Accessing Commands

## Unit-III

- Editing Command or Text Window text
- Correcting Mistakes

## Unit-IV

- Refreshing the screen display
- Opening a Drawing and Saving an Existing File

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# **Environmental Studies**

# Unit 1

# Landscape Architecture

- Introduction to Landscape Architecture
- Scope of landscape architecture
- Role of a landscape architect
- Comparing landscape design with architecture

# Unit 2

# Landscape Elements

- Introduction to the landscape elements (landform, water, vegetation, architectural elements). Understanding the visual (color, form, texture) / non-visual (smell, touch, sound) attributes of these elements and their usage and application in design
- Integration of indoor and outdoor spaces
- History of Landscape Architecture: To study of various principles and philosophies of landscape design throughout the world from ancient to contemporary times

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## Unit 3

## Landscape Services

- Plant selection criteria in landscape based upon visual, functional, micro-climatic and ecological aspects. Also understanding effect of time on planting design
- Site analysis and Site planning
- Introduction to landscape services such as outdoors lighting, surface water drainage, irrigation
- Landscape constructional details of the following- paving, curbs, steps, roof garden, retaining walls

## Unit 4

## Environments and Landscape

Introduction to environment and its components with reference to concepts of :

- Environmental assessment of materials used in interiors and landscape
- Application of landscape design to conserve the environment.
- Microclimatic control using landscape elements

## **Energy Conservation**

• Introduction to the concepts of design for energy conservation including day lighting and

climateresponse

- Non-conventional energy sources, conservation of natural resources (land, water, vegetation), alternative building materials, water harvesting (roof water harvesting, recharging ground water, etc.),
- Solid waste management (vermiculture pits, compost pits, degradable, non degradable waste).



# CAD – Practical – II

#### Unit-I

- Introduction •
- An Overview of CAD ٠
- dvantages of Auto CAD ٠

#### Unit-II

- ٠ AutoCAD system requirements
- Accessing Commands ٠

## Unit-III

- Editing Command or Text Window text •
- **Correcting Mistakes** ٠

#### Unit-IV

Refreshing the screen display ٠

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Opening a Drawing and Saving an Existing File ٠

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