

5. INTERIOR DESIGNING

1. INTRODUCTION

Interior designing which was not given much importance hitherto, has at once become much sought after career today. There has been a rise in demand for interior designers in recent times. Today, everyone wants a functional dwelling place, which also looks good. At the same time, space comes at a premium and it must be designed well so that maximum functions can be done from constructed quarter. What we need to today is an acute need to professionally trained interior designers. In order to fulfill this need, a nine months course on “Interior designing” will be of immense one to train the people who desire to take this as a vocation.

2. OBJECTIVES

- To equip the students with the knowledge on elements and principles of Interior Design
- To get insight into variety of furniture, lighting, furnishings suitable for the interiors
- To become aware of various services in an interiors
- To train in the selection of appropriate materials for different surfaces
- To impart skill in drawing ergonomically fit interior schemes for residential and commercial buildings
- To learn computer interface in interior designing
- To develop professionalism in becoming an interior designer.

3. SKILLS TO BE PROVIDED

- Designing aesthetic sense and good taste
- Judgement in selecting various material required for interior designing
- Experience in scale drawing and presentation techniques of interiors
- Developing hands on experience in use of computers for interior designing
- Professional practice.

4. EMPLOYMENT OPPORTUNITIES

Wage employment:

Interior designers in:

- Interior designing firms
- Construction companies
- In-house designers in Government and Non-Government offices
- Hospitals, Schools, Residential Commercial buildings.
- Window designers
- Teachers in Schools and Colleges
- Instructor in Computer Center to teach CAD
- Accessory designer
- Event designer

- Spatial designer
- Computerized interior designer.

Self-Employment

- Renovation and remodeling of interiors
- Furniture designer
- Interior Designer accessories
- Residential window designers
- Design consultants
- Commercial or residential interior designers
- Estimators for interior designing
- Setting up interior designing studio as a small enterprise.

5. Schemes Of Instruction Per Module

Module	Theory		On Job Training		Total	
	Hours	Weightage	Hours	Weightage	Hours	Weightage
I	72	30	216	70	288	100
Total	72	30	216	70	288	100

Schemes Of Instruction Per Week

Module	Theory	On the Job Training	Total
Modules I/II/III	6 Hours	18 Hours	24 Hours

VOCATIONAL SHORT TERM CERTIFICATE COURSE (ONE YEAR) In Interior Designing

MODULE – I

SYLLABUS

Theory

Time: 72 Hrs

Marks: 30

Course Contents

Fundamentals of Interior Designing

Introduction to the subject and its importance	1
Objectives of Interior designing	
Design – Definition, Importance, Requirements & Types	6
Structural Design	
Decorative Design	4
• Designing interiors	
- Good Taste; definition & importance	
- Design themes: Types and Application	
Personality of the home	14
• Art Elements:	
- Line: Types, characteristics & importance	
- Form: Size & shape; characteristics	
- Colour: Sources, qualities,	
Emotional effects	
Colour wheel & schemes	
Application of colour in Interiors	
- Texture: Types & significance	
- Pattern: Types & effects	
- Light: Importance, characteristics and application in interiors.	
• Principles of Design:	10
- Harmony: Definition, Effects and application	
- Balance: Definition, Type and application	
- Proportion: Definition, Importance and Scale relationship	
- Rhythm: Definition, ways of achieving	
- Emphasis: Definition and application	

- **Basic Principles of space planning** 10
 - Orientation
 - Aspect
 - Prospect
 - Privacy
 - Grouping
 - Roominess
 - Flexibility
 - Circulation
 - Furniture arrangements
 - Sanitation
 - Practical consideration

- **Interior Background Materials:** 14

Types, characteristics, use, care and maintenance of materials and finishes used / suitable for interiors

 - Walls
 - Floor
 - Ceiling
 - Roof.

- **Services:** 13
 - **Electricity:** Basic Units of Measurement
 - Safety Features
 - Estimation of cost
 - Electrical Fitting
 - Fixtures for interiors
 - **Plumbing:** Water supply sources
 - Pumping system
 - Fittings & Fixtures
 - Quality & Protection
 - Rain Water Harvesting
 - Waste Water disposal
 - **Sewerage:** Importance,
 - Fittings
 - Special considerations & precautions
 - **Fire Safety:** Need & Provisions Protective devices
 - & Protection

Total

72

Module – I
ON THE JOB TRAINING

Fundamentals of Interior Designing
Time: 216 Hrs

• Study of structural & decorative design	7
• Drawing simple structural & decorative design – room accessories, furniture etc.	12
• Identifying and understanding of elements of art	7
• Drawing Prang, colour chart	9
• Drawing value & intensity scale	9
• Obtaining colour scheme from standard and intermediate colours	11
• Development of motifs & design	9
• Identification of personality of homes using selected pictures	7
• Drawing of designs expressing elements of art	9
• Identification of principles of design through interior design pictures & objects	7
• Evolving designs representing principles of design	7
• Learning symbols used in building drawings: doors, windows, ventilators, walls, cabinets, bathroom fittings, toilet fittings	12
• Knowledge on rough and detailed plans: measurement, scale, scale drawings, lettering, line work & dimensioning	14
• Study of different types of building; blue prints, plan, elevation, sections, key legend, title, block, scale site orientation & detailed drawings	14
• Visits to residential & commercial buildings to observe planning & services	9
• Evolving simple two- dimension house plan to scale	17
• Interior presentations – Plan, elevation, sections and perspectives	15
• One & two point perspectives of simple geometrical forms & interiors	16
• Market survey on building materials & finishes	9
• Preparation of scrap book	7
• Exploring the choices construction materials through visit to residential and commercial buildings under construction – presentation reports	9
Total	216

MODULE – II

Syllabus
Theory
Hours – 72
Marks: 30

Residential & Commercial Interiors

Course Contents:

Residential Interiors:

- Importance of personal and group space in residential Buildings 3
 - Functions of Home
 - Activities in the Home
 - Grouping of activities – Private – Semi-private group

- Factors influencing residential space planning: 3
 - Climate: Building design Orientation
 - Family needs and aspirations
 - Material availability in the market
 - Financial limits: cost and quality

- Ergonomical Considerations: 6
 - Definition, application of ergonomic principals in interiors
 - Human space needs: Anthropometrics
 - Space needs for the interior elements of objects
 - Lighting for different locations and activities, measurement.
 - Ventilation and indoor air quality
 - Noise control methods

- Interior Building Finishes their suitability and care 6
 - Walls: Paints, Wall Paper, Paneling and cladding material, glass, mirror etc.
 - Floor: Polished stones, ceramic tiles, vinyl, linoleum, wood etc.
 - Ceiling and False ceiling: Acoustical boards, Plaster of Paris panel, aluminum panels, metal strips etc.

- Interior Decorating Elements: 10
 - Furniture: Type, Utility and arrangement
 - Lighting: Function, Type and use
 - Furnishing Material: Soft and hard
 - Floor covering: Carpets and Rugs,
 - Door and Window: designs and treatments
 - Accessories: Importance, and varieties

- Project Management for Residential Interiors: 5
 - Assessment of needs of desires
 - Assessment of affordability
 - Material Choice
 - Planning time frame
 - Establishing relationship with clients of contractors
 - Framing terms & conditions

COMMERCIAL INTERIORS

- Study of factors influencing the designing of commercial space: 3
 - Purpose & location
 - Available space & specific needs
 - Activities to be performed
 - Material availability
 - Financial limits: Cost Vs Quality
- Human factor in designing space for individual and group activities. 6
 - Eating area
 - Recreational area
 - Health area
 - Shopping area
 - Indoor sports area
 - Bath and toilet area
- Furniture for different activities in commercial establishment 5
 - Study of table, chairs, work counters, storage etc in terms of material & finishes, fittings and fixtures.
 - Construction features: Ergonomic consideration
- Building materials for the finishing effect of interior building components: 5
 - Walls
 - Flooring
 - Ceiling

MODULE – II **ON THE JOB TRAINING**

Syllabus
Hours – 216

Residential & Commercial Interiors

Course Contents:

- Anthropometry: relation to space Planning: 26
 - Learning anthropometry measurements
 - Learning application of anthropometry in space planning i.e. different workstations.

- Exposure to building finishing materials 26
 - Market Survey
 - Report writing
 - Presentation of reports
 - Collection of literature
 - Preparation of Scrap book.

- Evolving simple house plans for one small area – 250 Sqm. 12
 - Studying of plans, learning symbols of Evolving.
- Evolving simple house plans for one large area – 100 – 150 Sqm 12

- Planning Furniture 15
 - Furniture
 - Lighting
 - Plumbing details

} for a small Residence

- Visit to different residential building to study the structural and finishing details of Various products used in interiors with their cost details: 10
 - Report writing
 - Presentation of reports
- Working out detailed design and decoration plans for
 - Drawing room
17
 - Drawing cum dining
 - Bed room- Master
 - Children
 - Guest
 - Kitchen – with different work area arrangement
(Single wall, double wall, Shape, U shape, island)
 - Dining –Bathroom – Hall – corridors – Lobby.
 - Scale model for one small residence

•	Design analysis of small commercial centres:	13
	- Shops	
	- Restaurants	
	- Clinics	
	- Parlors	
	- Boutiques	
	Through observation & drawing plans	
	Presentation of plans & report	
•	Design analysis of large commercial areas:	17
	- Shopping complex	
	- Offices	
	- Polyclinic	
	- Indoor auditorium or stadium	
	- Cultural centres	
	- Hospitals	
	Through observation & drawing plans	
	Presentation of plans & report	
•	Working out detailed plan for a small or large area considering space needs, purpose, materials choice etc.	19
•	Working out decoration plan for any one scheme with detailed presentation sketches	15
•	Scale model of a small commercial area	10
•	Estimation of cost for any one scheme	9
	Total	216

MODULE –III

**Syllabus
Theory
Hours-72
Marks: 30**

CADD Application in Interior Designing

Course Contents:

• Introduction to the course	1
• Introduction to hardware & software	9
• Introduction to CADD application	2
• Basic Commands:	24
- Use of draw tools, lines, arch, circle, ellipse, box.	
- Edit tools: Trim, chamfer, Otrack, fillet, rotate, mirror, offset, stretch & extend.	
- Use of view, format, tools, insert, modify menu.	
• Role of computers in the process of design development	4
• Techniques of productivity and management using layers and symbol generation.	7
• 3 D Modelling:	12
- Co-ordinating system, primitive tools,	
- Boolean operation, extrude, revolve, rotate	
- Solids, sliding, filleting, chamfering, mirror, aligning, perspective views	
• Generating auto dimensions and text	4
• Rendering and hatching	9
- Materials, colour, lighting, backgrounds, fog, landscapes, image - creation	
Total	72

MODULE – III
ON THE JOB TRAINING

CADD Application in Interior Designing
Hours 216

Course Contents:

• Introduction to computer – Hardware and software, Auto CAD 2000.	11
• Drawing with basic elements:	30
- Use of draw tool, modify tool, edit tool to create shapes.	
• Drawing interior plans for residential use	20
• Drawing a simple plan for commercial use	30
• Generating sections and elevations for both residential and commercial plan	20
• Use of techniques of productivity and management using layers and symbol generation.	15
• Generating text and auto dimensions	15
• Rendering and hatching	30
• Presentation of CADD project – Both residential and Commercial Design.	45
Total	216

List of Training Centres

- Interior Designing and Architectural firms
- Interior Decoration Practitioners
- Furniture Manufacturing units
- Public works Department

7. LIST OF TOOLS & EQUIPMENT

Material Required for Conducting the Course:

Consumable:

White papers, Chalk, dusters, Markers pens, White board pens, registers, computer accessories etc.

Non-Consumable

- Class room – Fixed with Chalkboard, OHP, OHP Screen, Magnet boards.
- Soft display boards for mounting students presentation.
- Interior Design Studio- Draughtsman adjustable drawing Table (one table for each student)
- Resource Room – Sample materials used for building construction, building finishes, furnishings, room accessories; Catalogues for different decorative products used in Interior designing, Special literature and magazines highlighting the changing techniques in interior designing.
- Laboratory – Worktables of 6 x 4' for modeling, painting etc. (one table for 4 students)
- Staff Table Chairs – one for each staff storage cup board.
- Computer Lab with computers (Pentium IV with all accessories)- one for each students
- Printer and Plotters – 2 each

Consumable (To be Procured by the student)

Imperial size Drawing Board, T Square, Adjustable of two set squares 45⁰ and 60⁰, Pins, clips and brushes, Set of cardboard scales, or one architects scale, Drawing Sheets, Pencils H, HB, B & 2B, Eraser & Pencil Sharpeners, Instruments Box, Water/Postel Colours, Tracing Sheet, Camel Ink – Black, Inking Pen – 0.2, 0.3 and 0.5 (Indian made good quality), Architects templates – Lettering, furniture, sanitary, electrical, and mount boards & board cutting tools.

8. QUALIFICATION FOR TEACHING FACULTY

- 1) Vocational Lecturer - 1 Staff with qualification preferably M.Sc. Home Science in Resource Management and Consumer Sciences / Family Resource Management / Home Management if not available B.Arch. (Interior Design).
- 2) Vocational Assistant Lecturers - 2 Staff Members preferably with qualification of B.Sc Home Science (Interior Design) if not available / Postgraduate Diploma in interior designing.
- 3) Lab Assistant - 1 Staff with qualification of Vocational pass-out with Diploma in Interior Designing.

9. REFERENCE BOOKS

1. Building drawing – Shah M.G. Kale C, M and Patki S.Y.
2. Modern Ideal Homes for India – R.S. Deshpande
3. Interior Design – Principles and Practice – Pratap Rao M
4. Ergonomics for Beginners – Dul J.B. and Weerdmeester B.
5. An Introduction to Art, Craft, Technique, Science and Profession of Interior Design Kasu A.A.
6. The House, its Plan and Use, Agan T.
7. Rendering with Pen and Ink – Gill R
8. Construction Technology – Chudley R.
9. A do-it-yourself Book of Interior Decoration – Pramila Mehra
10. How to solve your Interior Design Problems – Blake J.
11. Interior Design – An introduction to Architectural Interiors – Arnold F, Pile J.F. and Forrest. W.
12. Home Repair and Maintenance – Lauders J.M.
13. Hamlyn Book of Decorating – Phillips B
14. Basic Home Decorating – Worthington J
15. Design for Modern Living – A Practical Guide to Home furnishing and Interior Decoration – Gerd and Hatje U.
16. Better Homes and Garden “New Complete Guide to Home Repair and Improvement”.

Magazines:

Inside Outside
Society Interiors
Design + Interiors
Architecture + Design

10. LIST OF PARTICIPANTS

Dr. S. Renuka – Professor and Head of the Department of Resource Management and consumer Science, College of Home Science, Angrau, Hyderabad.

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