

1	Name of Syllabus	C.C. in TECHNIQ OF INTERIOR DESIGNING (304210)																																																													
2	Max. No's of Student	25 students.																																																													
3	Duration	1 YEAR																																																													
4	Type	Full Time																																																													
5	No Of Days / Week	6 Days																																																													
6	No Of Hours /Days	7 Hrs																																																													
7	Space Required	Lab = 1000 Sq feet Class Room = 200 Sq feet TOTAL = 1200 Sq feet																																																													
8	Entry Qualification	S.S.C. passed																																																													
9	Objective Of Syllabus/ introduction	1. To study various techniques in the planning and designing of buildings. 2. Interior works techniques 3. To develop competencies colour schemes for interior of buildings 4. Prepare Interior works drawings																																																													
10	Employment Opportunity	a) Wage Employment : 1. Work as Interior Decorator 2. Assistance of Architect 3. Interior work co ordinator 4. Interior Designer b) Self Employment 1. Interior Designer Contractor 2. Interior Decorator Consultant 3. Contractor of interior Civil works 4. Interior Civil works Estimator																																																													
11	Teacher's Qualification	Diploma/Certificate in concern subject																																																													
12	Training System	<table><tr><th colspan="3">Training System Per Week</th></tr><tr><td>Theory</td><td>Practical</td><td>Total</td></tr><tr><td>18 Hours</td><td>24 Hours</td><td>42 Hours</td></tr></table>						Training System Per Week			Theory	Practical	Total	18 Hours	24 Hours	42 Hours																																															
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13	Exam. System	<table><tr><th>Sr. No.</th><th>Paper Code</th><th>Name of Subject</th><th>TH/ PR</th><th>Hours</th><th>Max. Marks</th><th>Mini. Marks</th></tr><tr><td>1</td><td>30421011</td><td>Materials and Construction & Fundamentals of Interior Design</td><td>TH I</td><td>3 hrs.</td><td>100</td><td>35</td></tr><tr><td>2</td><td>30421012</td><td>Technical Drawing & Civil Engineering Drawing</td><td>TH II</td><td>3 hrs.</td><td>100</td><td>35</td></tr><tr><td>3</td><td>30421013</td><td>Basic Interior Design and Principles of Graphic Design</td><td>TH III</td><td>3 hrs.</td><td>100</td><td>35</td></tr><tr><td>4</td><td>30421021</td><td>Materials and Construction & Fundamentals of Interior Design</td><td>PR I</td><td>3 hrs.</td><td>100</td><td>50</td></tr><tr><td>5</td><td>30421022</td><td>Technical Drawing & Civil Engineering Drawing</td><td>PR II</td><td>3 hrs.</td><td>100</td><td>50</td></tr><tr><td>6</td><td>30421023</td><td>Basic Interior Design and Principles of Graphic Design</td><td>PR III</td><td>3 hrs.</td><td>100</td><td>50</td></tr><tr><td></td><td></td><td>Total</td><td></td><td></td><td>600</td><td>205</td></tr></table>						Sr. No.	Paper Code	Name of Subject	TH/ PR	Hours	Max. Marks	Mini. Marks	1	30421011	Materials and Construction & Fundamentals of Interior Design	TH I	3 hrs.	100	35	2	30421012	Technical Drawing & Civil Engineering Drawing	TH II	3 hrs.	100	35	3	30421013	Basic Interior Design and Principles of Graphic Design	TH III	3 hrs.	100	35	4	30421021	Materials and Construction & Fundamentals of Interior Design	PR I	3 hrs.	100	50	5	30421022	Technical Drawing & Civil Engineering Drawing	PR II	3 hrs.	100	50	6	30421023	Basic Interior Design and Principles of Graphic Design	PR III	3 hrs.	100	50			Total			600	205
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INTERIOR DESIGN

THEORY I

PART A

Materials and Construction

DETAILED SYLLABUS (Theory)

Sr. No.	Topics
1.	Termite Proofing : <ul style="list-style-type: none">• Meaning• Types of termites• Principles of termite proofing• Methods of termite proofing
2.	Timber : <ul style="list-style-type: none">• Definition• Classification of trees• Structure of tree• Qualities of good timber• Preservation of timber• Seasoning of timber• Defects in timber• Market forms of timber• Advantages of timber construction
3.	Paints and Varnishes : <ul style="list-style-type: none">• Painting – oil painting on different surfaces• Varnishing• Types of varnish• Application of varnish• Distemping• Types of distemper• Application of distemper• Wall paper• Process of wall papering
4.	Bricks : <ul style="list-style-type: none">• Composition of good brick earth• Manufacture of bricks• Qualities of good bricks• Fire bricks• Classification of bricks
5.	Stones : <ul style="list-style-type: none">• Classification of rocks• Qualities of good building stones• Dressing of stones• Common building stones

6.	<p>Glass :</p> <ul style="list-style-type: none"> • Classification of glass • Composition of glass • Properties of glass • Types of glass • Coloured glass • Special varieties of glass
7.	<p>Acoustics :</p> <ul style="list-style-type: none"> • Definition • Velocity of sound • Frequency and intensity of sound • Reflection of sound • Reverberation • Absorption of sound • Types of absorbent materials • Acoustics design of auditorium
8.	<p>Stone masonry :</p> <ul style="list-style-type: none"> • Definition • Materials required • Joints in stone masonry • Classification of stone masonry • Tools used in stone masonry
9.	<p>Brick masonry :</p> <ul style="list-style-type: none"> • Definition • Materials required • Types of brick masonry • Tools used in brickwork • Defects in brickwork
10.	<p>Partitions :</p> <ul style="list-style-type: none"> • Definition • Types of partitions – brick partition, Glass partition, Strawboard partition.
11.	<p>Doors and Windows :</p> <ul style="list-style-type: none"> • Definition • Technical terms used in door and window • Ventilators • Fixtures and fastenings for door and window • Types of door and window
12.	<p>Carpentary and joinery :</p> <ul style="list-style-type: none"> • Meaning • Technical terms used • Classification of joints
13.	<p>Ventilation and Air-conditioning :</p> <ul style="list-style-type: none"> • Necessity of ventilation • Factors affecting ventilation • Types of ventilation • Air – conditioning – definition • Purposes • System of air conditioning

THEORY I

PART B

Fundamentals of Interior Design

Sr. No.	Topics
1.	Lettering and Free hand sketching : <ul style="list-style-type: none">• Importance of lettering• Printing of letters• Construction of different types of scales• Free hand sketching of geometrical models
2.	Workshop calculations : <ul style="list-style-type: none">• Multiplication• Division• Common fraction• Substraction• Multiplication• Division
3.	Units and algebra : <ul style="list-style-type: none">• Different system and conversion• Simple equation and quadratic equation• Units of force and weight• Laws of motion and problems
4.	Area and Volume : <ul style="list-style-type: none">• Areas of triangles, square, circle• Calculation of volume and weight of simple solid objects such as – cube, square
5.	Trigonometry : <ul style="list-style-type: none">• Trigonometrically ratio• Function applied• Reading and plotting of simple graph• Properties of of metal used in interior designing

6.	<p>Inking and tracing :</p> <ul style="list-style-type: none"> • Operating of Leroy set for inking and tracing • Care of Leroy and its accessories • Method of preparing Blue prints or Ammonia prints • Folding of Ammonia prints
7.	<p>Basic Interiors :</p> <ul style="list-style-type: none"> • History of basic Interior and different furniture • Elements and principle of design
8.	<p>Planning :</p> <ul style="list-style-type: none"> • Space planning and related by laws • Layout of space selection • Furniture styles • Selection of furniture templates • Measurement of drawing as per designed
9.	<p>Fabrics and estimate :</p> <ul style="list-style-type: none"> • Classification of fabrics • Characteristics and identification of fabrics • Different fabric – weave, texture, colour, taintness and durability • Shrinking treatment for different fabrics – cotton, silk, wooden and bended • Quantities of material and their cost for single storeyed residential building • Finalisation of specification and estimated cost
10.	<p>Computer basics :</p> <ul style="list-style-type: none"> • Introduction • Terms used in computer • History of computers • Elementary DOS commands • Word Processor commands and their uses • Auto-CAD commands and use of menus of Auto-CAD
11.	<p>False Ceiling :</p> <ul style="list-style-type: none"> • Meaning • Partition low height, full height and partly glazed • Materials required for false ceiling • Method of false ceiling • Estimate of false ceiling

PRACTICAL I
PART A
Materials and Construction

Sr. No.	Topics
1.	Varnishing on new wood work
2.	Varnishing and polishing on old wood work
3.	Oil Painting on wall surface
4.	Oil painting on wooden surface
5.	Oil painting on metal surface
6.	Site visit at manufacturing of bricks
7.	Construction of UCR masonry with mortar
8.	Construction of Brick masonry with mortar in : <ul style="list-style-type: none">• English bond• Flemish bond• Header bond• Stretcher bond
9.	Drawing practice and study of different types of doors
10.	Drawing practice and study of different types of windows
11.	Construction of various types of Carpentry joints
12.	Site visits at stone Quarry
13.	Site visit at Glass manufacturing factory

INTERIOR DESIGN

PRACTICAL I

PART B

Fundamentals of Interior Design

DETAILED SYLLABUS (Practical) :

Sl.No.	Topics
1.	Lettering and Free hand sketching : Practice of different types of lettering and freehand sketching of objects
2.	Workshop calculations : Practice of workshop calculations
3.	Units and algebra : Conversion of units in M.K.S. and C.G.S.
4.	Area and Volume : Calculations of areas and volumes of different geometrical figures – Cube, square, circle etc
5.	Trigonometry : To solve the problems on trigonometry
6.	Inking and tracing : Sketching practice of different objects in ink and tracing of the drawing
7.	Basic Interiors : To study the Elements and principles of designs
8.	Familiar with Computer : Introduction to computers and AutoCAD Practice
9.	Fabrics : Study of different fabrics
10.	False Ceiling : To study the method of construction of false ceiling and its materials used.

THEORY II
PART A
(Technical Drawing)

SR. No.	Topics
1.	Drawing instruments : <ul style="list-style-type: none"> • Drawing board • T square • Set square • Compass • Divider • Scales • Protractor • Inking pen • Drafting machine
2.	Lines, Lettering and Dimensioning : <ul style="list-style-type: none"> • Types of lines • Lettering – single stroke and Double stroke • Dimensioning – methods
3.	Scales : <ul style="list-style-type: none"> • Reducing and increasing • Representative fraction • Types of scales
4.	Loci of points : <ul style="list-style-type: none"> • Loci of points equidistant from a point, a straight line • Two circles
5.	Curves used in Engineering Drawing : <ul style="list-style-type: none"> • Conic sections • Ellipse • Parabola • Hyperbola
6.	Projections of points : <ul style="list-style-type: none"> • Points of different quadrants
7.	Projections of planes : <ul style="list-style-type: none"> • Traces of planes • Types of planes
8.	Projections of straight lines : <ul style="list-style-type: none"> • Parallel to one or both planes • Inclined to both planes • Traces of a line
9.	Projections of solids : <ul style="list-style-type: none"> • Polyhedra • Solids of simple position • Axis perpendicular to a plane
10.	Screw Threads : <ul style="list-style-type: none"> • Meaning • Terms used in screw threads • Whitworth or British Standard Whitworth thread • Unified thread • Square thread • Knuckle thread

11.	Rivets and riveted joints : <ul style="list-style-type: none"> • Riveting • Forms of rivet heads • Classification of riveted joints
12.	Welding joints : <ul style="list-style-type: none"> • Systems of welding • Different forms of welds • Points to be considered while representing the welds

THEORY II

PART B

Civil Engineering Drawing

Sr. no.	Topics
1.	Engineering Drawing : <ul style="list-style-type: none"> • Introduction and importance • Engineering Drawing is the language of Engineers • Symbols used in Civil Engineering Drawing • Electrical symbols • Sanitary symbols
2.	Orthographic projection : <ul style="list-style-type: none"> • Introduction and four quadrants • Planes of projection • First angle method of projection • Third angle method of projection • Symbols – First and Third angle method • Simple problems
3.	Isometric projection : <ul style="list-style-type: none"> • Introduction • Principle of isometric projection • Isometric scale • Recognition of object from given views • Sketching missing view
4.	Perspective projection : <ul style="list-style-type: none"> • Introduction and definition • Location of station point • Types of perspective projection • Perspective views – types • Method of construction • Technique of colouring and shading • Simple problems
5.	Civil Drawing : <ul style="list-style-type: none"> • Plan – its types – site plan, layout plan, foundation plan, ground floor plan, typical floor plan • Elevation • Section – its types, requirements of section • Schedule of Door and window • Drawings of G + 2 Buildings with all details
6.	Principles of planning : <ul style="list-style-type: none"> • Residential building – Local building bye laws • Types of building and types of services and utilities • Office building – Planning of office interior designing as per I.S.I. Code. • Types of offices – service utilities

PRACTICAL II

PART A

Technical Drawing

DETAILED SYLLABUS (Practical)

Sr. No.	Topics
1.	Drawing instruments
2.	Lines, Lettering and Dimensioning
3.	Scales
4.	Loci of points
5.	Curves used in Engineering Drawing
6.	Projections of points
7.	Projections of planes
8.	Projections of straight lines
9.	Projections of solids
10.	Screw Threads
11.	Rivets and riveted joints
12.	Welding joints

INTERIOR DESIGN

Practical II

PART B

Civil Engineering Drawing

DETAILED SYLLABUS (Practical) :

Sl.No.	Topics
1.	Civil Engineering Drawing
2.	Orthographic projection
3.	Isometric projection
4.	Perspective views
5.	Civil Drawing
6.	Principles of planning
	Total

THEORY III

PART A

Basic Interior Design

Sr. No.	Topics
1.	Introduction to Interior Design : <ul style="list-style-type: none">• Brief overview of styles• line• balance• harmony and rhythm• colors• fabrics• lighting• plans, etc.
2.	Elements of Design : <ul style="list-style-type: none">• Basics of elements• theme• scale and proportion• balance• harmony and rhythm• focus• lighting etc.
3.	Decorating Styles : <ul style="list-style-type: none">• An overview of styles
4.	Flooring : <ul style="list-style-type: none">• Flooring selections
5.	Walls and Ceilings : <ul style="list-style-type: none">• Wall and ceiling treatments
6.	Windows and Window Treatments : <ul style="list-style-type: none">• Curtains• drapes• shades• blinds and shutters and other window treatments
7.	Furniture : Furniture styles
8.	Accessories : <ul style="list-style-type: none">• Accessorizing a space
9.	Rules and Myths <ul style="list-style-type: none">• Some decorating myths and rules

THEORY III

PART B

Principles of Graphic Design

Sr. No.	Topics
1.	Interior Design - Introduction : History & Development Definition Designing Characteristics. Designing concepts. Interior designers qualities. Aspects
2.	Design concepts : Nature. Purpose of Design. Evaluation of Design
3.	Introduction to different models of Decoration : Meaning and Types. Harmony. Properties. Balance. Rhythm. Emphasis
4.	Color Theory : Category - Primary, Secondary & Tertiary. Color Effects - Cool and Warm. Color Wheel. Designers guide. Tints. Shades. Hues. Color Harmonies. Color Application. Paints & Surface preparation. Estimation
5.	Elements of Interior Design : Line of Direction. Forms & Shapes. Texture. Pattern. Shades

6.	<p>Furniture Design :</p> <p>Styles of Furniture.</p> <p>Residence Room Divider.</p> <p>Dining Table & Chair.</p> <p>Plan & Isometric View</p>
7.	<p>Furnishing :</p> <p>Importance of furnishing.</p> <p>Styles of Furniture.</p> <p>Constructional Features.</p> <p>Upholstered Furniture.</p> <p>Upholstery Designs.</p> <p>Selection & Arrangement.</p> <p>Furnishing Materials.</p> <p>Windows & Window treatments.</p> <p>Evaluation of Requirements and cost.</p> <p>Care & Maintenance</p>
8.	<p>Accessories :</p> <p>Definition & Classification.</p> <p>Picture arrangement.</p> <p>Selection & Framing of pictures.</p> <p>Table Settings.</p> <p>Flower arrangement.</p> <p>Free Style & Ikbana.</p> <p>Conditioning & Preserving</p>
9.	<p>Lighting :</p> <p>Importance of Lighting.</p> <p>Types of Fixtures.</p> <p>Lighting Plan (Indoor - Outdoor)</p> <p>Lighting arrangements.</p> <p>Measurement of Light.</p> <p>Electrical Layout.</p> <p>Application accessories</p>
10.	<p>Styles Of Residence Furniture :</p> <p>Bedroom cupboard.</p> <p>Bed Head board</p> <p>Office Furniture.</p> <p>Office Table & Chair.</p> <p>Reception Desk.</p> <p>Bar Counter</p>
11.	<p>Elevation & Sectional Drawing :</p> <p>Front View.</p> <p>Interior View</p>
12.	<p>Cost & Estimation:</p> <p>Analysis of Cost.</p> <p>Estimation of Wood</p>

PRACTICAL III

PART A

Basic Interior Design

Sr. No.	Topics
1.	Introduction to Interior Design
2.	Elements of Design
3.	Decorating Styles
4.	Flooring
5.	Walls and Ceilings
6.	Windows and Window Treatments
7.	Furniture
8.	Accessories
9.	Rules and Myths

PRACTICAL III

PART B

Principles of Graphic Design

DETAILED SYLLABUS (Practical) :

Sl.No.	Topics
1.	Interior Design – Introduction
2.	To study the Design concepts
3.	To study the different models of Decoration
4.	To study the Color Theory
5.	TO study the Elements of Interior Design
6.	To study the Furniture Design
7.	To study the Furnishing work
8.	To study the different Accessories
9.	To study the Lighting work
10.	TO study the Styles Of Residence Furniture
11.	To prepare Elevation & Sectional Drawing
12.	To find out the Cost & Estimation of building

List of Equipments :

1. Drawing table with drawing boards.
2. T.Square/Mini drafter
3. Drawing instruments set.
4. Set Square set,
5. Compass set
6. Plumb bob cross staff
7. Tapes
8. Spirit level
9. Bar bending bench
10. Bar bending tools (complete set with different diameters)
11. Theodolite with stand
12. Helmets
13. Gum boots
14. 1mt x 1 mt x 0.01 nt (Mixing tray)
15. Weighing balance
16. Trowels
17. Set of sieves 80 mm, 40 mm, 20mm 10mm, 4.75 mm, 2.36 mm 1.18 mm 0.6 mm, 0.3 mm, 0.15 mm
18. Sieve Shaker for coarse aggregate. (30 cm Dia)
19. Vicat apparatus
20. I.S. Testsieve - sieve No. 90 Microns
28. Weighing Balance (wt. 50 gm - to 5 kgs)
29. Fractional weight Box
30. Table Vibrator
31. Needle vibrator
32. Drawing Models
33. Drawing Model with sections.
34. Computers
35. Electric Oven
36. Universal testing machine
37. Shear tool assembly
38. Brinell Microscope with light arrangement
39. Impact testing machine (Izod, Charpy)
40. Procter Mould with Metal Rammer

Reference Books :

1. Construction Materials

Construction Materials by G.J. Kulkarni

Building Materials by Rangawala

2. Surveying :

Survey I and II by B.C. Punmia

Surveying and levelling by T.P. Kanetkar

3. Engineering Drawing :

Engineering drawing by — N.D. Bhatt

Engineering drawing by — B.R. Gupta

4. Building Construction :

A text book of Building Construction by — R.S. Desh Pande

A text book of Building Construction by — Rangawala

5. Estimating and Costing :

Estimating and Costing by — B.N Dutta

Estimating and Costing by — Birdie

6. Civil Engineering Drawing :

Civil Engineering Drawing I and II by — A. Kamala

Civil Engineering Drawing 'A' Series — V.V.S. Murthy

7. Interior Design :

S.N. Chaudhary
