

SYLLABUS OF SEMESTER SYSTEM
FOR THE TRADE OF

**INTERIOR DESIGN &
DECORATION**

under

Craftsmen training scheme (CTS)

(One year /Two semesters)

Redesigned in

2014

By

Government of India

Ministry of Labour & Employment (DGE&T)

Format For CTS

1. Cover Page
2. Title
3. General Information
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General Information

1. Name of the Trade	:Interior Design & Decoration
2. NCO Code No.	:3471/ 3471.10/ 3471.20/3471.50/ 3471.90
3. Duration of Training	:Twelve months (Two Semesters of six months each)
4. Entry Qualification	:Passed 10th Class under 10+2 system with minimum of 40% independently in Science and Mathematics
5. Unit Strength	:20 Trainees
6. Space Norms	a) Class Room Practical =40 sq.mt b) Class Room Theory Room =80 sq.mt c) Computer lab: 6 x 6mt
7. Power Norms	:10 Kw.
8. Job Role	:At the end of course the trainees will be able to: <ul style="list-style-type: none">• Work in Interior office as Interior designer• Work in architect office as Assistant Interior designer.• Work in manufacturing units of Interior materials like Furniture Designing, wall paper, modular designs etc.• Work as Interior & Exterior Paints.• Work in showroom dealing in Curtain & cushion making.• Work in offices floor & wall finishes.• Work as free lancer, Planning & Interior.
9. Instructor's Trainer's Lab & Studio attendant - 1 no	: Training officer / Instructor - 1 no

10. Instructor's Qualification

Degree in Interior design and Decoration engineering with 1 years post qualification experience respectively.

OR

Diploma in Interior design and Decoration engineering with 2 years post qualification experience respectively

OR

NTC/NAC in relevant trade with 3 years post qualification experience in the relevant field.

***Note: The degree/ diploma holder instructors must be provided with orientation programme having duration of six months in Training Methodology within two year of their appointment.**

Week wise content index of First semester

S.No	Week No.	Contents Heading		Duration
		Practical	Theory	
1.	1 to 3	Elements of Interiors	Elements of Interiors	3 weeks
2.	4 to 5	Principals of Design	Designing of Interiors	2 weeks
3.	6 to 7	Interior Design	Design & details	2 weeks
4.	8 to 9	Interior Layout	Furniture	2 weeks
5.	10 to 11	Types of Staircases	Details of staircases	2 weeks
6.	12 to 13	Lintels & Arches use in interior	Details of Lintels & Arches	2 weeks
7.	14 to 15	Doors / Windows	Details of Doors / Windows	2 weeks
8.	16 to 17	Graphics & Anthropometric Interiors	Functional design	2 weeks
9.	18 to 21	Principal of Perspective	Perspective view	4 weeks
10.	22 to 23	Project work / Market survey / Industrial visit	-----	2 weeks
11.	24	Revision	-----	1 week
12.	25 to 26	Examination	-----	2 weeks

Week wise content index of Second semester

S.No	Week No.	Contents Heading		Duration
		Practical	Theory	
1.	1 to 2	Ceiling	Partition wall	2 weeks
2.	3 to 4	Floor	Building materials	2 weeks
3.	5 to 7	Carpentry (Doors /Windows/ Ventilators)	Carpentry Joints	3 weeks
4.	8 to 10	Paints & Polishing	Paints & Polishing	3 weeks
5.	11 to 12	Plumbing / Air conditioner/Landscape	Interior Services/Lighting	2 weeks
6.	13 to 14	Planning of commercial Interiors	Plan Layout	2 weeks
7.	15 to 18	Residential Interior – Sound Acoustics / Fire proof / Building Materials	Color wheel/ color schemes / Drawing details	
8.	19	Computer	Aesthetic component of design	1 week
9.	20 to 21	Preliminary drg. In CAD	CAD designing	2 weeks
10.	22 to 23	Project work	-----	2 weeks
11.	24	Revision	-----	1 week
12.	25 to 26	Examination	-----	2 weeks

SYLLABUS FOR THE TRADE OF “INTERIOR DECORATION & DESIGNING” UNDER C.T.S.

Duration: Six Month

First Semester

Semester code: IDD:SEM-I

WEEK NO	TRADE THEORY	TRADE PRACTICAL
1	Importance of safety and general precaution observed in the trade. Importance of the trade in the development of industrial economy of the country.	Familiarization with the institute. Importance of trade training. Instrument used in the trade. Type of work done/jobs by the trainees in the institute.
2 to 3	Elements of Interior Design Drawing instruments, equipment's and materials their used, care and maintenance. Introduction to Indian standard institution. Code of practice for general Interior and Interior drawings. Definitions, construction of plan. Elevation, section and use anthropometric in interiors.	Identifying of drawing instruments layout of drawing sheets by doing small exercises in interior Use of drawing instruments Tee square/ MD and drawing boards printing of letters and numbers.
4 to 5	Principals of design Introduction of basic interior. 1. Elements & Principals of design. Color & color scheme .	Designing of Interiors Designing of interior commercial, residential making plan, elevation details, material, and specification. Graphics used for interior etc. Graphics symbols for Door, windows and furniture of different material.

6 to 7	<p>Interior Design</p> <p>Design of furniture for different purposes— bedrooms, dining hall, kitchen, library, office, workshop, Classroom etc.</p>	<p>Furniture Design & details</p> <p>A table, chair, sofa, cabinets, beds, dining table etc.</p> <p>NOTE: - Necessary practical training will be carried out on site.</p>
8 to 9	<p>Interior Layout</p> <p>Space selection, furniture styles, selection of furniture, use of furniture templates, measurement of drawing as per design.</p>	<p>Furniture</p> <p>Measured drawing of the interior residential and commercial.</p>
10 to 11	<p>Types of Staircases</p> <p>Materials, planning and designing of staircases. Details of construction.</p> <p>Bricks / Stone / R.C.C</p>	<p>Preparing drawings of details of parts of wooden stair. Preparing drawings of straight, open newel, dog legged, geometrical, bifurcated and spiral stairs. Brief about mezzanine floors.</p> <p>Details of Foundation, Damp Proof Course.</p> <p>Types of bricks ,section ,bonds, Graphics for brick stone.</p>
12 to 13	<p>Lintel and Arches use in interior</p> <p>Concept of different types of lintel and arches.</p>	<p>Details of Lintel and Arches</p> <p>Drawing of different types of lintel and arches & use</p>
14 to 15	<p>Doors / Windows</p> <p>Types of doors, windows and ventilators and there furnishing treatment</p>	<p>Details of D / W</p> <p>Drawing of different types of doors, windows and ventilators & treatment.</p>
16 to 17	<p>Graphics & Anthropometric & interior</p> <p>Rendering, Symbols & Designing of</p>	<p>Functional design</p> <p>How to make design – flow of circulation</p>

	interior	chart, bubble diagram, programming, planning and designing of spaces with furniture layout, basic layout of furniture space planning and layout,
18 to 21	<p>Principle of perspective</p> <p>Importance of sectional views. Types of sectional views and their uses.</p> <p>Principle of perspective view,</p> <p>Types of perspective projection.</p> <p>Fundamental concept, definition, location of station point. Perspective view—types.</p> <p>Use of pencil and color in interiors.</p>	<p>Perspective View & Freehand Sketches</p> <p>Simple plan bed room with furniture layout</p> <p>Sectional views- different types of sections.</p> <p>Introduction to one point perspective and two point perspective, and view by projection from plan and elevation.</p> <p>Drawing perspectives views of interior including color scheme and rendering pencil and color.</p>
22 to 23	<p>(i) Project Work</p> <p>a) Exercise on creativity in using waste materials</p> <p>b) Model making for developing skill of various shapes & colors etc.</p> <p>c) Plan elevation and views – one room interior.</p> <p>d) [Collection of interior samples and making of sample reference file.]</p> <p>ANY ONE</p> <p>(D) is compulsory</p> <p>(ii) Market survey For Building materials, finishing material, fitting & fixtures</p> <p>(iii) Industrial Visit [Optional]</p>	
24	Revision	
25 to 26	EXAMINATION	

SYLLABUS FOR THE TRADE OF “INTERIOR DECORATION & DESIGNING” UNDER C.T.S.

Duration: Six Month

First Semester

Semester code: IDD:SEM-I

WEEK NO	Workshop Science & Calculation
1	Multiplication & division – common fraction, subtraction, multiplication & division.
2	Units- different system and conversion of scales. Ratio and proportion in the trade problem.
3 to 6	-do-
7 to 9	Estimation for different interior with specification.
10 to 12	Type of curtains estimates with specification.
13 to 14	Area of triangles, rectangles, square, circle, regular polygons etc. – problems.
15 to 16	-do-
17to18	Estimate cost of interior material.
19 to 21	Problems on height and distance. Reading and plotting of simple graph. Properties of metal which are used in the interior designing.
22 to23	-----
24	Revision
25 to 26	EXAMINATION

SYLLABUS FOR THE TRADE OF INTERIOR DECORATION & DESIGNING UNDER C.T.S.

Duration: Six Month

First Semester

Semester code:IDD:SEM-I

WEEK NO	Engineering drawing
1 to 2	Importance of lettering, printing of letters and figure sizes, proportion etc. use of engineering scales in meter and feet.
3 to 5	Lines, Types of lines, Angles, triangles and circles kind of drawing including pictorial projection
6 to 8	Simple introduction of Geometrical forms as cube, rectangle, square, hexagon, cylinder etc. simple exercise using them to form a correct position in black and white or color. Making the composition 3 dimensional and plan and views of these.
9 to 12	Free hand sketching of indoor plants & interiors . Lettering, alphabets, free hand stencils in pencil and ink. Free hand sketches for plan and elevation
13 to 15	
17 to 19	Construction and reading plain scales reading of tapes and foots rules
20 to 21	Drawing of simple geometrical problem involving lines square and polygons simple isometric scaled drawing, isometric views of simple objects geometrical figures, projection of solids.
22 to 23	-----
24	Revision
25 to 26	Examination

Final Achievement: 1st sem.

1. Use and maintenance of: drawing instrument and drafting machine.
2. Construction and use of different scales.
3. Space planning - selecting space, programming circulation and design.
4. Measure drawing - case study of hotel suits and corporate house
5. Design & Detailed drawing of table, chair, sofa, cabinet, beds and dining tables etc.
6. Estimate & costing of Interior materials.

SYLLABUS FOR THE TRADE OF INTERIOR DECORATION & DESIGNING UNDER C.T.S.

Duration: Six Month

Second Semester

Semester code:IDD:SEM-II

WEEK NO	TRADE THEORY	TRADE PRACTICAL
1 to 2	Ceiling Materials used for false ceiling and partition. Types of partition wall- wooden, glass etc.	Partition wall Making drawing of false ceiling and partition wall - low height, partially glazed of different materials.
3 to 4	Floor Types of floor finishing- method of constructing granolithic, mosaic, brick tiled etc. used in floors.	Building Materials Drawing details – types of floors, brick on edge, tiled, timber, pattern, stone, mosaic, glass, carpets etc.
5 to 7	Carpentry (Doors/ Windows / Ventilators) Doors, windows and ventilations- parts, location, size and types. Painter hand tools- brushes of various sizes, diamond glazier, stopping knife, scrapers, plate knife, chisel knife, shave hook, pump line, lining tool, rule file, etc. their description, use, care and maintenance. Use of roller. Safety precautions and elementary first aid preparation and use of glue, putty. Carpenter's hand tools, their	Carpentry Joints Making details drawing of different types of joints make a sheet of types of doors & windows. Method of fixing doors and window frames. Use of carpenter's hand tools involving sawing, planing and chiseling. Making simple joints used in furniture.

	<p>names, descriptions and use. Common joints. Use of nails, screws, hinges, dowels etc.</p> <p>Grinding and sharpening of tools. Their care and maintenance. Use of different types of joints. Properties and uses of different timbers used in construction work. Types of wood, classification and uses.</p>	
8 to 9	<p>Paints & Polishing</p> <p>Polishes - method of preparation- different types – classification and their application on woods.</p> <p>Painter’s equipment’s classification, function and their uses – principles of spray gun painting. Method of application and precautions analysis of rates for simple items of works. Schedule of specification</p> <p>Painting by spray gun brushes and roller – different specific application and their defects and remedies.</p>	<p>Paints & Polishing</p> <p>Preparing of surface on wood for polishing painting, finishing polishing of doors, windows, panels, partitions of room, furniture etc.</p> <p>Painting of walls, ceiling with color, painting of doors and windows, electrical fitting, water supply pipe lines house drainage, sanitary fittings</p> <p>NOTE: - necessary practical training will be carried out on site.</p>
10 to 12	<p>Plumbing</p> <p>Common hand tools use for plumbing and their description and use. Description of plumbing operation.</p> <p>Terms used in public health engineering. System of sanitation – house plumbing, sanitary fittings etc.</p> <p>Types and system of lighting. Safety precautions.</p>	<p><u>Interior services :</u></p> <p>planning of plumbing, plumbing layout plan and elevation, section, details etc.</p> <p>Preparation of drawing showing various pipe joints for underground drainage, method of sanitary fittings in buildings, manholes, septic tanks etc.</p> <p>Lighting</p> <p>Lighting system in different spaces.</p>

	<p>Air conditioner</p> <p>Types of air Conditioning - types, ducting, and drainage.</p> <p>Indoor Plants</p> <p>Introduction to indoor plants for interiors.</p>	<p>Fixing and connecting appliances for domestic/ commercial area. Electrical layout. Lighting circuits and study of planning materials.</p> <p>NOTE:- necessary practical training will be carried out on site.</p>
13 to 14	<p>Planning of Commercial interior</p> <p>Office building – planning of office interior . Types of offices, service utilities etc.</p>	<p>Plan Layout</p> <p>Introduction of office design project – detail layout plan, sectional elevations, one point perspective and two point perspective . Plumbing system, false ceiling, wall treatment for temperature control and acoustic, electrical planning and other furnishing details.</p>
	<p>Hotel suite/show room site visit; case study And measurement of drawing.</p>	
15 to 17	<p>Residential Interior –DPC/ Sound Acoustics/ Fire proof</p> <p>Residential building. Principles of planning. Local building by laws, types of building, types of service, types of utilities.</p> <p>Introduction to building materials- physical and mechanical properties of materials. Types of ceramic materials, glasses and plywood and their utilization in interior designing.</p> <p>Fabrics: Their classification, characteristics and identification. Different fabric, weave, texture, colour, strength and durability,</p>	<p>Drawing details</p> <p>Drawing details of single room. Drawing plan elevation section with aid of line diagrams. Layout and detailing of a residential interior.</p> <p>Draw perspective view of the interior and layout of furniture.</p>

	shrinking treatment for different fabrics (cotton, woolen, silk and blended). Method to find out quantities of material and their cost for a single storied residential building. Finalization of specification and the estimated cost.	
	VISIT TO DIFFERENT SITES WHERE INTERIOR DECORATION AND DESIGNING WORKS ARE IN PROGRESS	
18	<p>Computer</p> <p>Fundamental computer Ms offices</p>	<p>Aesthetic component of design</p> <p>knowledge of Computer. Word processor, commands and their uses.</p>
19 to 21	<p>Preliminary Drawing in CAD</p> <p>i) CAD commands and use of different menus.</p> <p>ii) Concept of 2D and 3D CAD drawing.</p>	<p>CAD training-</p> <p>1) Installation of CAD software. 2) Elementary commands and menus of CAD software. 3) Drawing practice on CAD software. 4) Practice on 3D drawing & designing.</p>
22 to 23	<p>PROJECT WORK- CAD Designing (perspective view, estimating for masonry work, wood works etc.)</p> <p>(Creativity work)</p>	
24	Revision	
25 to 26	Examination	

SYLLABUS FOR THE TRADE OF INTERIOR DECORATION & DESIGNING UNDER C.T.S.

Duration: Six Month

Second Semester

Semester code:IDD:SEM-II

WEEK NO	Workshop Science & Calculation
1 to 2	Estimate for simple interiors residential, commercial. Floor, Windows, Doors, Lighting, Plumbing etc.
3 to 4	Sound, characteristics of sound. Light : laws of reflection, refraction – simple problems.
5 to 7	Working drawing of Electrical plan
8 to 10	Drainage plan ,Plumbing layouts details.
11 to 13	Toilets and Kitchen details , Plan , Elevation,
14 to 17	Finding surface area and volume using pyramidal transpoidal formula.
18 to 21	Introduce green building concept .
22 to 23	-----
24	Revision
25 to 26	Examination

SYLLABUS FOR THE TRADE OF INTERIOR DECORATION & DESIGNING UNDER C.T.S.

Duration: Six Month

Second Semester

Semester code: IDD:SEM-II

WEEK NO	Engineering drawing
1 to 2	Projection of straight line in various position inclined to one plain and parallel to others projection of squares, rectangular.
3 to 5	Preparation of drawing first angle and third angle projection
6 to 8	Preparation of drawing for English bond and Flemish bond, and isometric view
9 to 12	Simple isometric scaled drawings isometric simple objects of geometrical like, cubes, square prisms rectangle prisms.
13 to 15	Reading of drawing a plain of a blinding showing drainage line, manhole up to sewer . drawing of manhole and inspection chamber with detail
17 to 19	Designing on CAD
20 TO 21	Final Design on CAD Residential /Commercial Interiors
22-23	project
24	Revision
25 - 26	Examination

Final Achievement: 2nd sem.

1. Construction- plan, sectional elevation, perspective views, plumbing, electrical, painting and finishing etc. of a corporate office.
2. Estimating for masonry work and wood work etc.
3. Designing various types of stair cases, false ceilings, partition walls etc.
4. Placing of plants within Interiors.
5. Specification of paints, color, finishing of wall and ceiling and furniture.
6. Designing on CAD

Note:

- 1. Due to the rapid changes in the technologies frequent Modernization of Equipments and Technologies is necessary.**
- 2. Training programs for staff should be organized in the new fields added in the curriculum for the proper implementation of the same.**
- 3. Expert lectures may be organized at regular intervals and when required.**

INTERIOR DESIGN & DECORATION

LIST OF TOOLS AND EQUIPEMENTS

(Note: latest configuration to be achieved while procuring all Tools & Equipments)

No. of Unit / Batch : 1 (one)

Strength : 20 trainees

Furniture for Theory/ Practical

SNo.	Name of the Item	Quantity
1.	Modular writing pad chairs with adjustable pad for theory class room	**22 No.
2.	Drawing Boards measuring 1250mm x900mm fixed over adjustable stand	**20+1Sets
2.	Draughtsman stool with back (revolving type)	**22 No.
3.	Students Lockers – with 8 compartments	3 No.
4.	Wooden Chest of Drawers	4 No.
5.	Steel book case (with lockable glass shutters)	1 No.
6.	Instructor's table with glass top	2 No.
7.	Revolving Chair for Class room	2 No.
8.	Instructor's revolving with arm chair	2 No.
9.	Visitor's revolving chair	2 No.
10.	Steel Almirah	2 No.
11.	Magnetic White Board with felt board & accessories	2 Nos.
12.	Pin-up board (with or without stand)	4 No.
13.	Working table size 1250x950	2nos
14.	Tracing Table with Plain glass 1250x900	1 no

15.	Air conditioner 2.0 tons (split unit) for theory and practical room	4 nos.
16.	Claw hammer	5 Nos.
17.	Spirit level 30 cm.	5 Nos.
18.	Metallic tape 30 meter long	2 Nos.
19.	Display board covered with glass or acrylic sheet	2 Nos.
20.	Green board	1 No.
21.	Lux meter (to measure light)	
22.	Environmental multi meter (to measure temperature, humidity, air velocity)	

**Numbers may be increased depending on on-roll trainee's strength and additional unit (if any)

Furniture for CAD Lab

S No.	Name of the Item	Quantity
1.	Personal Computer with LCD monitor & DVD re-writer along with Latest compatible OS	**20 No.
2.	Notebook PC	2 No.
3.	Drafting Software like AutoCAD, or equiv.	**20 No.
4.	3D modeling software like Max, Revit etc.	**20 No.
5.	Anti Virus Software	As required
6.	Other software's – CORAL, PHOTOSHOP etc.	As required
7.	Steel almirah small size	2Nos.
8.	Plotter (A0 size)	1 No.
9.	Laser Jet color printer (A3 size)	1 No.
10.	Inkjet/ Laser Jet Printer (A4 size)	1 No.

11.	Color Scanner/printer with Latest Configuration (A3 size)	1 No.
12.	UPS on line	1 No.
13.	Computer work station (module type)	**20 Nos.
14.	Printer Table (module type)	2 No.
15.	Operator's revolving chair	22 No.
16.	Instructor 's Lab table	1 No.
17.	Instructor's revolving chair with arm	3 No.
18.	Book shelf with glass shutters	1 No.
19.	Air conditioner 2.0 tons (split type) for CAD lab	2 No.
20.	LAN connectivity	As per requirement
21.	Internet connection Wi – Fi	1 No.
22.	Visualizer with accessories	1 No.
23.	Vacuum Cleaner	1 No.
24.	Fire Extinguisher	1 No.
25.	Cabinet with drawer	2 Nos.
26.	Shoe rack	
27.	Wall clock	3 Nos.

**it may be as per requirement i.e. equal to no of trainees.

Mouse & Keyboard should be treated as Raw Material.

Audio Visual Aids

Sl no.	Name of the item	Quantity
1.	LED Projector latest model with white screen	1 No.
2.	Interactive Board with complete accessories	1 No.

INTERIOR DESIGN & DECORATION

LIST OF CONSUMABLES

No. of Unit / Batch : 1 (one)

Strength : 20 trainees

Hand Tools (to be treated as consumables)

SI No.	Name of the Item	Quantity
1.	Adjustable set square with beveled edge – 30 cm	20 + 1 sets
2.	Compass with Long arm & pen holder	20 + 1 No.
3.	Protractor – 15 cm	20 + 1 No.
4.	Graphic Pens / Ink / Stencil	As per requirement
5.	Triangular Scale 30 cm (feet / inch, metric)	20 + 1 No.
6.	Clutch pencil – 0.5mm , 0.2 mm , 2mm.	20 + 1 No.
7.	M.D / Parallel Bar / T scale – 1250 mm long	20 +1 No.
8.	Plastic French Curve with ink edge - set of 12	4 sets
9.	Flexi curve- 80cm	4No.
10.	Furniture template 1:50, 1:100,1:200	20+1Nos.
11.	Circular and oval template	20+1Nos.
12.	Metric Tape-5M	20+1Nos.
13.	Calculator Scientific	05 nos
14.	Beam Compass with pen holder (rotring/steadler made)	02No.
13.	Pen Drive	As per requirement
14.	Erasing shield small & Big sizes	20 + 1 Nos.

Carpentry & Painting Tools : As required

Note:

1. All the hand tools mentioned under Sl.No. 1 to 7 would be issued to Trainees once during their course and to be treated as consumables.
2. The quantities of hand Tools may be increased accordingly based on the No. of Trainees on roll (including the Strength of Additional Unit, if any).
3. In addition to the list, small measuring tapes, Drawing Sheet, Tracing Paper, Butter Sheet, Color Pencils, Pencil (of various grades), Pencil Leads, Cello tape, Eraser and any other Raw Materials would be issued as per the requirement and will be considered as consumable items.
4. For faculty members Raw Materials like Pen Drive, Pocket Hard Disk, Memory Card, Re-writable CDs & DVD etc., may be provided.

