

**SCHEME OF EXAMINATION**

**And**

**SYLLABI For**

**BACHELOR OF VOCATION**

**In**

**(INTERIOR DESIGN)**

**1<sup>st</sup> SEMESTER to 2<sup>nd</sup> SEMESTER**

**BACHELOR OF VOCATION  
(INTERIOR DESIGN)  
FIRST SEMESTER EXAMINATION**

Paper Code	Paper ID	Paper	L	T/P	S/D	Credits
<b>Theory Papers</b>						
CSJID-101		Fundamental of Computers	2	1	0	3
CSJID-102		Communication Skills	2	0	0	2
<b>OPEN ELECTIVE - I (Select any one)</b>						
CSJID-103		Workshop(Wood & Metal) - I	0	2	0	2
CSJID-104		Trade Enquiry(Market Survey) - I	0	2	0	2
<b>PRACTICAL/VIVA VOCE / STUDIO</b>						
CSJID-105		Basic Design Principles	2	0	8	6
CSJID-106		Art and Interior Graphics - I	1	0	6	4
CSJID-107		Furniture Design Workshop - I	1	0	6	4
CSJID-108		History of Interior Furniture - I	1	2	0	3
CSJID-109		Textile and Accessories	1	2	0	3
CSJID-110		Site Visits	0	0	0	3
<b>TOTAL</b>			<b>10</b>	<b>06</b>	<b>20</b>	<b>30</b>

**Note** - The above subject which will include site visits, market survey, visit to various malls, exhibitions, art galleries & museums etc. The same shall be reflected in the time table.

**Training/Interior Design Project -I**

The students are advised to undergo two weeks in-house training during winter break and should submit project work for evaluation during the second semester

**BACHELOR OF VOCATION  
(INTERIOR DESIGN)  
SECOND SEMESTER EXAMINATION**

Paper Code	Paper ID	Paper	L	T/P	S/D	Credits
<b>THEORY PAPERS</b>						
CSJID - 201		Environmental Science	3	0	0	3
<b>OPEN ELECTIVE - II (Select any one)</b>						
CSJID-202		Workshop(Wood & Metal) - II	0	2	0	2
CSJID-203		Trade Enquiry(Market Survey) - II	0	2	0	2
<b>PRACTICAL/VIVA VOCE / STUDIO</b>						
CSJID-204		Interior Design-I	1	0	4	3
CSJID-205		Display Design-I	1	0	4	3
CSJID-206		Art and Interior Graphics - II	1	0	4	3
CSJID-207		Furniture Design Workshop - II	1	0	4	3
CSJID-208		History of Interior Furniture - II	1	2	0	3
CSJID-209		Interior Materials and Construction Tech. - I	1	0	4	3
CSJID-210		Interior Project(Minor) - I	2	0	6	5
CSJID-211		Winter Project - I	0	0	0	2
<b>TOTAL</b>			<b>11</b>	<b>04</b>	<b>26</b>	<b>30</b>

**Note -**

The above subject which will include site visits, market survey, visit to various malls, exhibitions, art galleries & museums etc. The same shall be reflected in the time table.

**Training/Interior Design Project -II**

The students are advised to undergo two weeks training during summer break and should submit project work for evaluation during the third semester.

# FUNDAMENTAL OF COMPUTERS

L	T/P	S/D	Credits
2	1	0	3

**Paper Code: CSJID-101**

## ***Objectives & Pre-requisites:***

In present scenario, the advertising agencies, publishing houses and other art studios, computer knowledge and software learning are essential requirement for the graphic designing/art work purposes

***Learning Outcomes:*** The students should be familiarized with the use of computer in applied art.

## **UNIT-I**

### **BASIC KNOWLEDGE**

- Block diagram of computer and its working
- Components of computer
- About operating system
- Booting and installation
- File management
- Printing

## **UNIT-II**

### **WORD PRECESSING**

- Opening and saving documents
- Editing
- Character and paragraph editing

## **UNIT-III**

### **BASIC POWER POINT PRESENTATION**

- Opening and saving a slide
- Inserting picture and movie clip
- Publishing a presentation

## **UNIT-IV**

### **INTERNET BROADCASTING**

- Opening and saving a page
- Creating an account
- Elements of web page

## **Reference Book(s): -**

[R1] Dummies Publication, Fundamentals of Computing

## COMMUNICATION SKILLS

**Paper Code: CSJID-102**

L	T/P	S/D	Credits
2	0	0	2

### ***Objectives and Pre-requisites:***

*Students should have studied General English up to secondary level and the subject aims at developing communication skills in writing, speaking as well as body language.*

### ***Learning Outcomes:***

*The students should be able to communicate effectively to his/her superiors as well as juniors at work place in his/her professional field.*

### **UNIT-I**

Recognizing and Understanding Communication Styles: What is Communication? Passive Communication, Aggressive Communication, Passive-Aggressive Communication, Assertive Communication, Verbal and Non Verbal Communication, Barriers and Gateways to Communication.

### **UNIT-II**

**Listening Skills:** Types of Listening (theory /definition), Tips for Effective Listening Academic Listening- lecturing), Listening to Talks and Presentations, Basics of Telephone communication

**Writing Skills:** Standard Business letter, Report writing, Email drafting and Etiquettes, Preparing Agenda and writing minutes for meetings, Making notes on Business conversations, Effective use of SMS, Case writing and Documentation.

### **UNIT-III**

**Soft Skills:** Empathy (Understanding of someone else point of view), Intrapersonal skills, Interpersonal skills, Negotiation skills, Cultural Aspects of Communication.

### **UNIT-IV**

**Group Communication:** The Basics of Group Dynamics, Group Interaction and Communication, how to Be Effective in Groups, Handling Miscommunication, Handling Disagreements and Conflicts, Constructive Criticism.

### **Text Book(s):**

[T1] McKay, M., Davis, M. & Fanning, P. (2008). Messages: The Communication Skills Book, New Harbinger Publications

[T2] Perkins, P.S., & Brown, L. (2008). The Art and Science of Communication: Tools for effective communication in the workplace, John Wiley and Sons

### **Reference Book(s):**

[R1] Krizan et al (2010). Effective Business Communication, Cengage Learning. [R2] Scot, O. (2009). Contemporary Business Communication, Biztantra, New Delhi. [R3] Chaney & Martin (2009). Intercultural Business Communication, Pearson Education [R4] Penrose et al (2009). Business Communication for Managers, Cengage Learning.

**(Open Elective - I)**

**WORKSHOP (WOOD & METAL) - I**

**Paper Code: CSJID-103**

L	T/P	S/D	Credits
0	2	0	2

***Objectives & Pre-requisites:***

*Objective is to have general skills and knowhow of carpentry and sheet metal works.*

***Outcomes:*** - *Students gets the knowledge how the raw materials can be finished and used for the different work in furniture etc.*

**UNIT-I:**

1. Introduction to carpentry tools and equipment's.
2. Demonstration of wood working machines

**UNIT-II:**

1. Exercises on sawing, planning, sanding, chiseling etc.
2. Practice exercise in making important joints in wood are commonly used in furniture.

**UNIT-III:**

1. Introduction of the tools and equipment's used for sheet metal work
2. Exercises of sheet metal work involving bending, boxing, conduit bending, soldering.

**UNIT-IV:**

1. Exercises on joints of sheet metal work e.g. seam, hem, grooved, lap, butt, riveting etc.
2. One simple utility article from GI sheet

**Text Book(s):**

[T1] Workshop Practice by Swaran Singh

[T2] Workshop Technology by Gupta

[T3] Workshop Technology by Hazra & Chawdhry

**(Open Elective - I)**

**TRADE ENQUIRY (MARKET SURVEY) – I**

**Paper Code: CSJID-104**

L	T/P	S/D	Credits
0	2	0	2

***Objectives & Pre-requisites:***

*To familiarize the students about the various materials and new materials available in the market so that they are able to give the material specifications.*

***Outcomes:*** *Students gets the knowledge how the raw materials can be finished, joints and used for the different work in furniture etc.*

**UNIT-I:**

**BASIC BUILDING MATERIALS:**

- Collections of basic building materials samples such as Bricks, Cement, Aggregates etc.
- Wall finishes -
- Collection of Brochures of various company in the market, rates and other relevant information's such as application advantages and disadvantages of Distemper, Paints, Wall papers etc.

**UNIT-II:**

**WOOD & WOOD BASED PRODUCTS:**

- Types of woods in markets, Rates, Company
- Laminates, Veneer, Plywood, Block board etc.

**UNIT - III:**

**UPHOLSTERY MATERIAL AND TAPESTRY:**

- Types of fabric used for different types of furniture, and window treatment.
- Rates, Collection of Samples.

**NOTE: Students have to prepare a project file along with the samples, rates other information.**

## BASIC DESIGN PRINCIPLES

**Paper Code: CSJID-105**

L	T/P	S/D	Credits
2	0	8	6

### **Objective & Pre-requisite: -**

*The objective of this course is to make students understand the various aspects such as spatial quality, design vocabulary, design principles, and design process related to the design of interiors. Moreover, to develop the aesthetics and abilities to Design Residential and Commercial interiors with the help of principles and elements of design. Exercises based on principles and elements of design in the form of charts shall be given to the students.*

### **UNIT-I:**

#### **Design:**

Definitions of Design, Arrangement, Composition.

#### **Principles of Composition-Elements and Principles.**

1. Introduction to various elements of composition, line, direction, shapes, form, color, value, ones and Textures.
2. Principles of Composition
3. Repetition, Rhythm, Harmony, Unity, Balance, Dominance, Scale, Proportion, Contrast, practice exercise in composition with reference to above.
4. Designing of Murals, Paintings and Wall Paintings etc.

### **UNIT-II:**

#### **Colours:**

1. Terminology- Hue, Tints and Shade, Value, Intensity, Chroma
2. Theories of Colors, Color Wheels
3. Different types of Color Schemes
4. Colour Harmony, Colour Contrast in relation to Interior Planning.
5. Psychological aspects of colour - Warm and Cool
6. Advancing & Receding colors
7. Color, Pattern and Texture and their relationship in Interiors.
8. Colour Planning and guidelines for various Interiors.

### **UNIT-III:**

#### **Study of Form, Pattern, Tones and Textures**

1. Factors influencing design
2. Functional and Non-functional
3. Shapes and Patterns derive from natural forms.
4. Pattern and Textures in relation to colours
5. Types of Textures and their relationship psychological; impact.
6. Textures in pencils, inks, and colour.



## **UNIT-IV:**

### **Aesthetics of Interiors:**

1. Role of accessories in Interiors
2. Role of Colour, Light, Shades, and shadows in interiors.

### **Development of concepts in Interior Designing:**

1. Preparation of scrap files for accessories, furniture and fittings
2. Simple practice exercise in their development

### **NOTE:**

1. There will be written and drawing examination on the above: Internal assessment will be based upon the drawings, drawings charts and written assignments.
2. Drawings Charts should be prepared on each topic mentioned above

### **Text Book(s):**

[T1] Interior Design-Ahmed Kasu

[T2] Interior Design Principal and Practice-M. Prataprao

### **Reference Book(s):**

[R1] Basic Design of Anthropometry - Shirish Bapat

[R2] Living Area (Interior Space)

[R3] Time Saver Standard for Interior Design and Space Planning - Mcgraw Hill

New York [R4] Interior Design and Decoration, Sherrill Winton, Prentice Hall

## ART AND INTERIOR GRAPHICS - I

**Paper Code: CSJID-106**

L	T/P	S/D	Credits
1	0	6	4

### ***Objective & Pre-requisite***

*To make students improve their sketching skills & drawing abilities to develop the skills in drawings of different interior schemes and enable the Students to read the drawings & techniques of various methods of drawings.*

### **UNIT-I:**

#### **Instructional Objective:**

Knowledge of instruments, papers, usages of graphic in present and future in Interior Design presentation. Skills in free hand presentation - Pencils, crayons, ink pen, Brush, cut paper, marker, sketch pen etc. in different mediums.

### **UNIT-II:**

#### **Introduction to Free Hand Drawing:**

Free hand line on paper- horizontal and vertical lines, free hand circles, curves, parallel Etc. free hand lettering in pencil, pen, brush, sketching of various geometrical shapes, Simple objects of interiors furniture and accessories, human forms, animals, interior Views.

### **UNIT-III:**

#### **Skills in scaled drawing (Pencil and Pen)**

1. Knowledge of use of engineering scales- metric, foot and inches.
2. Reduction and enlargement
3. Physical measurements- exercises of different interior objects
4. Simple drafting of measured objects
5. Knowledge of 2-dimensional and 3-dimensional geometry
6. Exercise on drawing of simple plan, elevation and sections.

#### **Projections:**

1. Orthographic, Isometric, Axonometric
2. Drafting of furniture objects with projections.

### **UNIT-IV:**

#### **Measured Lettering**

Presentation techniques and standards adopted, pen, pencils and brush.

Understanding of Architectural graphic symbol

Drawing of simple layout for single room - with furniture, accessories dimensions.

#### **NOTE:**

1. There will be written and drawing examination on the above: Internal assessment will be based upon the drawings, drawings charts and written assignments.
2. Drawings Charts should be prepared on each topic mentioned above

**Text Book(s):**

[T1] Drawing - A creative Process, Francis D.K. Ching, John Wiley Sons, New York

[T2] Geometrical drawing for art students, 2<sup>nd</sup> revised edition- I.H.Morris, Orient Longman,

**Reference Book(s):**

[R1] Architectural Drafting and Design, 4<sup>th</sup> Edition- Ernest R.Weidhaas, Allyn and Bacon,

Boston, 1981. [R2] Building drawing, 3<sup>rd</sup> Edition- MG Shah, CM Kale, Tata Mcgraw - Hill Publishing, New Delhi.

## FURNITURE DESIGN WORKSHOP – I

**Paper Code: CSJID-107**

L	T/P	S/D	Credits
1	0	6	4

### **Objective & Pre-requisite:**

To familiarize the students about the knowledge of furniture design and various aspects involved in the Design of furniture for various spaces. Objective of this course is to develop competency to design and manufacture furniture in relation to human Forms and use it for different types of interiors.

### **UNIT-I:**

**Importance of furniture in relation to Interiors:** study of shapes, forms finishes on furniture. Environmental conditions influencing furniture designs: Climatic, social, economic, availability of materials and construction techniques.

### **UNIT II:**

**Introduction to various Materials:** Wood, metals used in Furniture. Types of wood based products, Methods of care and maintenance, economics of furniture, durability and usability.

### **UNIT-III:**

Techniques of finishing the Surfaces: Wood and Metal Paints, Polishes and varnishes etc: hand painting, brush painting, roller, spray etc.

### **UNIT-IV:**

Study of Anthropometric and ergonomic data in relation to various furniture, Diagrammatic representation through charts. An exercise has to be done where actual measurements have to be taken in relation to various furniture presentations in report form.

### **NOTE:**

1. Furniture to be designed freehand sketch files to be made topic wise.
2. Visit to various furniture workshop exhibitions and showrooms for demonstrations and information from time to time

### **Text Book(s):**

[T1] The Encyclopedia of Furniture, Joseph Aronson, Crown Publishers, New York  
[T2] Time Saver Standards for Interior Design, Joseph De Chiara, McGraw Hill, New York

### **Reference Book(s):**

[R1] Interior Design, Francis D.K. Ching, John Wiley & Sons, New York [R2] Office Furniture, Susan S. Szenasy, Facts on file Inc, New York

## **HISTORY OF INTERIOR FURNITURE - I**

**Paper Code: CSJID-108**

L	T/P	S/D	Credits
1	2	0	3

### ***Objectives & Pre-requisites:***

*To familiarize the students with the historical interior and furniture in contemporary. Objective of his course is to make the aware of historical backgrounds of World Interiors to derive designs and Patterns based on it for contemporary and Modern Interiors.*

### **UNIT-I:**

#### **Introduction: Pre-Historic:**

Indus Valley Civilization: Methods of planning decorative features figures and forms used Cultural features and life styles.

### **UNIT-II:**

Indian Handicrafts and Handlooms. Analysis of Hindu, Buddhist, Indo-Islamic interiors with special emphasis on decoration, ornamentation and motifs.

### **UNIT-III:**

Different Construction technique and materials used in interiors as part of structure/decorations with reference from influence of different factors or architectural forms and decorations such as Doors, Windows, Pillars, Columns, Paneling, Ceiling, Cornice frieze, Dado, Stone inlay and architectural decoration.

### **UNIT-IV:**

Different schools of Paintings in India. Influence of British Architectural on Indian Interiors and then gradual change in Architectural features in "**British India**".

### **NOTE:**

1. Preparation of reports and assignments.
2. Visits to Museums, Stores, State Emporium, Manufacturing Workshops, Exhibitions, Trade Fairs, Melas etc.

### **Text Book(s):**

[T1] History of Fine Arts in India and West by Edith Tomary

[T2] History of World Architecture by Sir Banister Flecher

### **Reference Book(s):**

[R1] Indian Architecture by Satish Kumar [R2]

Intrior Deign by Ahemad Kasu

Textile and Accessories

## TEXTILE AND ACCESSEORIES

**Paper Code: CSJID-109**

L	T/P	S/D	Credits
1	2	0	3

### ***Objectives & Pre-requisites:***

*To provide the students' knowledge of the Furnishing & Fittings & its implementation in Interior of any Area. Objective of this course is to make the student aware of different types of furnishings and fittings and use of the same for all type of Interiors, by doing market survey for up to date knowledge of different furnishing & Fittings.*

### **UNIT-I:**

**Floors-Introduction:** Warmth, Safety, Noise, Choice and Planning.

**Types of Floors:** Hard, Semi- Hard, Soft Floor.

### **UNIT-II: Floor Coverings:**

1. Types of Carpets & Rugs
2. Natural fibers and Man - made fiber
3. Handmade Carpets & Lying of Carpets.
4. Machine made Carpets

### **UNIT-III:**

#### **Types of Windows & Treatments:**

1. Types of Curtains & Blinds
2. Fittings & Accessories required for Curtains & Blinds.
3. Valance, Swags, Tails, Tracks, Poles and other hardware materials used in curtains and blinds.

### **UNIT-IV:**

1. Fittings & Fixtures of Bathroom & Kitchen.
2. Sanitary & Hardware

### **NOTE:**

1. Visiting Furnishing & Fitting showrooms for collecting samples or make sketch of the same and prepare a file.
2. Taking one Interior space showing use of different types of Floor, wall finishes, Window Treatment using the above study material.

### **Text Book(s):**

[T1] Interior Design Illustrated, Francis D.K. Ching

[T2] House Book (The complete guide to Home Design) by Terence Conron.

### **Reference Book(s):**

[R1] Window Fashion, Charles TIRANDALL

[R2] A.J. Metric Handbook: Editors Jan, Bilwas & Leslie fair weather.

## ENVIRONMENTAL SCIENCE

Paper Code: CSJID-201

L	T/P	S/D	Credits
3	0	0	3

**Objective:** The objective of this course is to make students environment conscious. They will be exposed through the fundamental concepts of environment and ecosystem so that they can appreciate the importance of individual and collective efforts to preserve and protect our environment. This course must raise various questions in student's mind that how our environment is inter dependent on various factors and how human being must care for their natural surroundings.

### UNIT-I

#### **Environmental Studies: Ecosystems, Bio-diversity and its Conservation**

##### ***(i) The Multidisciplinary Nature of Environmental Studies***

Definition, scope and importance of Environmental Studies, Biotic and a biotic component of environment, need for environmental awareness.

##### ***(ii) Ecosystems***

Concept of an ecosystem, structure and function of an ecosystem, producers, consumers and decomposers, energy flow in the ecosystem, ecological succession, food chains, food webs and ecological pyramids. Introduction, types, characteristic features, structures and function of the following ecosystem:

- (a) Forest ecosystem
- (b) Grassland ecosystem
- (c) Desert ecosystem
- (d) Aquatic ecosystem (ponds, streams, lakes, rivers, oceans, estuaries).

##### ***(iii) Bio-diversity and its Conservation***

Introduction to biodiversity - definition: genetic, species and ecosystem diversity, Bio-geographical classification of India, Value of biodiversity: Consumptive use, productive use, social, ethical, aesthetic and option values, Biodiversity at global, national and local levels, India as a mega-diversity nation, Hot-spots of biodiversity, Threats to biodiversity: Habitat loss, Poaching of wildlife, man-wildlife conflicts, rare endangered and threatened species(RET) endemic species of India, method of biodiversity conservation: *In-situ* and *ex-situ* conservation.

### UNIT-II

#### **Natural Resources: problems and prospects**

Renewable and Non-renewable Natural Resources; Concept and definition of Natural Resources and need for their management

*Forest resources:* Use and over-exploitation, deforestation, case studies, timber extraction, mining, dams and their effects on forests and tribal people.

*Water resources:* Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams-benefits and problems. Water conservation, rain water harvesting, watershed management.

*Mineral resources:* Uses are exploitation, environmental effects of extracting and using mineral resources, case studies.

*Food resources:* World food problems, changes cause by agriculture and over-grazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity, case studies.

*Energy resources:* Growing energy needs, renewable and non-renewable energy sources, use of alternate energy sources. Urban problems related to energy, case studies.

*Land resources:* Land as a resource, land degradation, man induced landslides, soil erosion and desertification.

### **UNIT-III**

#### **Environmental Chemistry and Pollution Control**

##### ***(i) Chemistry of Environment***

*(a) Green Technology:* Principles of Green technology, Zero Waste Technology, Green Chemistry & Its basic principles, Atom Economy, Green Methodologies, clean development mechanisms (CDM), concept of environmental impact assessment,

*(b) Eco-Friendly polymers:* Environmental degradation of polymers, Biodegradable, Photo-biodegradable polymers, Hydrolysis & Hydrobiodegradable, Biopolymers & Bioplastics: polylactic acid, polyhydroxybutyrate, polycaprolactone,. Concept of bioremediation.

##### ***(ii) Environmental Pollution***

Definition, types, causes, effects and control measures of (a) Air pollution, (b) Water pollution, (c) Soil pollution, (d) Marine pollution, (e) Noise pollution, (f) Thermal pollution, (g) Nuclear hazards. Pollution case studies. Solid waste and its management: causes, effects and control measures of urban and industrial waste.

***Chemical toxicology*** - Terms related to toxicity, impact of chemicals (Hg, As, Cd, Cr, Pb) on environment.

### **UNIT-IV**

#### **Disaster Management, Social Issues, Human Population and the Environment**

##### ***(i) Disaster Management***

Disaster management: floods, earthquake, cyclone and land-slides, nuclear accidents and holocaust, *case studies*.

##### ***(ii) Social Issues, Human Population and the Environment***

Sustainable development, Climate change, global warming, acid rain, ozone layer depletion, Environmental ethics: Issues and possible solutions, Consumerism and waste products, Wasteland reclamation. Population growth, problems of urbanisation, Environment Protection Act, 1986; Air (Prevention and Control of Pollution) Act, 1981; Water (Prevention and Control of Pollution) Act, 1974; Wildlife Protection Act, 1972; Forest Conservation Act, 1980; Environmental management, system standards-ISO 14000 series.

##### **Text Book(s):**

[T1] E. Barucha, Textbook of Environmental Studies for Undergraduate Courses, Universities Press (India) Pvt. Ltd., 2005.

[T2] S. Chawla, A Textbook of Environmental Studies, McGraw Hill Education Private Limited, 2012

##### **References Books:**

[R1] G. T. Miller, Environmental Science, Thomas Learning, 2012



- [R2] W. Cunningham and M. A. Cunningham, Principles of Environment Science: Enquiry and Applications, Tata McGraw Hill Publication, N. Delhi, 2003. [R3] R. Rajagopalan, Environmental Studies: From Crisis to Cure, 2<sup>nd</sup> Edition, Oxford University Press, 2011.
- [R4] A.K. De, Environmental Chemistry, New Age Int. Publ. 2012,
- [R5] A. Kaushik and C.P. Kaushik, Perspectives in Environment Studies, 4<sup>th</sup> Edition, New Age International Publishers, 2013
- [R6] Environmental Engineering by Gerard Kiely, Tata McGraw-Hill Publishing Company Ltd. New Delhi, 2010.

**(Open Elective - II)**

**WORKSHOP (WOOD & METAL) - II**

**Paper Code: CSJID-202**

L	T/P	S/D	Credits
0	2	0	2

**Objectives & Pre-requisites:** Objective is to have general skills and knowhow of painting, polishing and metal works.

**Outcomes:** Students gets the knowledge how the raw materials can be finished, joints and used for the different work in furniture etc.

**UNIT-I:**

**Painting and Polishing Workshop**

1. Introduction to painting materials for wood and metals
2. Exercises on the following:
  - Painting on metal and wood
  - Polishing on wall surfaces
  - Polishing of all mediums on woods

**UNIT-II:**

1. Preparation of various surfaces of furniture's for lacquer, matt, and melamine finish.
2. Polishing of glass and finishing treatment of plastered surfaces.

**UNIT-III:**

**Metal Workshop**

1. Introduction of the tools and equipment's used in fitting and welding shop
2. Simple exercises on filing, drilling and tapping

**UNIT-IV:**

1. Exercises of joining with the help of electric and welding and gas welding for making simple joints in metal industry.
2. Simple exercises on glass fixing.

**Text Book(s):**

[T1] Workshop Practice by Swaran Singh

[T2] Workshop Technology by Gupta

[T3] Workshop Technology by Hazra & Chawdhry

**(Open Elective - II)**

**TRADE ENQUIRY (MARKET SURVEY) - II**

**Paper Code: CSJID-203**

L	T/P	S/D	Credits
0	2	0	2

**Objectives & Pre-requisites:** *To familiarize the students about the various materials and new materials available in the market so that they are able to give the material specifications.*

**Outcomes:** *Students gets the knowledge how the raw materials can be finished, joints and used for the different work in furniture etc.*

**UNIT-I: Floor Finishes**

- Types of Floor- Hard floor, Soft Floor finishing materials, rates.

**UNIT-II:**

**Wood & Wood based Products:**

- Types of woods in markets, Rates & collection of samples
- Laminates, Veneer, Plywood, Board etc.

**UNIT - III:**

**Upholstery Material and Tapestry:**

- Types of fabric used for different types of furniture, and window treatment.
- Rates, Collection of Samples.

**UNIT - IV:**

**Electrical Fitting and Fixtures:**

- Collection of samples for lights fittings, Fans, Air Conditioning, switch boards.
- Rates and the company dealing.

**Note:** - Student have to prepare a project file along with the samples, rates other information's.

## INTERIOR DESIGN - I

**Paper Code: CSJID-204**

L	T/P	S/D	Credits
1	0	4	3

### ***Objectives & Pre-requisites:***

*To introduce the basic Designing for Residential Interiors and to develop Skills required for the same. To teach proper utilization of space by understanding the client's requirements with the help of principles and Elements of Design the students are required to prepare layout plans of single room suggesting colour scheme Material specifications with plan, elevations of perspective in colour.*

### **UNIT-I:**

Planning the flow of space, negative & positive space, space requirement, usage with furniture and functional Spaces. Space distribution and factors influencing it.

Drawing required, plan and elevation of single rooms, Simple Layout plans of different rooms for different Functions. Placement of Furniture, making furniture layout, plans and elevations of rooms of different functions.

### **UNIT-II**

**Bedrooms & Living Rooms:** Concepts in bedroom & Living room interiors- various layout of these spaces - the use of furniture and accessories to create a good ambience - materials & finishes - lighting, colour & Texture.

**Toilets:** Anthropometry - various types of sanitary ware and their use - types of layouts - concepts in modern day toilet interiors - with materials & finishes -lighting, Colour, Texture & pattern.

### **UNIT-III**

**Kitchens:** Work triangle, planning for activity - types of kitchen - Modular Kitchens. Materials Used for counters, shelves, worktops, washing areas.

**Lighting & Colour Scheme** - natural & artificial light.

### **UNIT-IV**

Perspective in Blank & White, Colour with simple rendering visit for case study of existing interiors, Record file of these to be prepared in freehand drawing.

### **Note:**

1. There will be written and drawing examination on the above: Internal assessment will be based upon the drawings, drawings charts and written assignments.
2. Drawings Charts should be prepared on each topic mentioned above

### **Text Book(s):**

[T1] Interior Design - Ahmed Kasu

[T2] Interior Design Principal and Practice- M. Prataprao

### **Reference Book(s):**

[R1] Time Saver Standard for Interior Design and Space Planning - Mcgraw Hill New York

[R2] Interior Design and Decoration, Sherrill Winton, Prentice Hall [R3] Designs for 20<sup>th</sup> century Interiors - Fiona Leolie, VH Publication, London 2000 [R4] Interior Design: The New Freedom, Barbaralec Diamonstein, Rizzoli International Publications, New York, 1982.

[R5] Interior Color by Design, Jonathan Poore, Rockport Publishers, 1994

[R6] Worldwide Interiors - International Federation of Interior Architects & Designers, Rikuyo - Sha, Japan, 1987.

## DISPLAY DESIGN - I

**Paper Code: CSJID-205**

L	T/P	S/D	Credits
1	0	4	3

### ***Objectives & Pre-requisites:***

*To provide the students' knowledge of the Display of Commercial Interiors & its implementation. Objective of his course is to make the student learn the scope of Display and Sales Promotion with the help of Different types of Displays used in Commercial areas.*

### **UNIT-I:**

**Introduction:** Display of various products/commodities, display and their scopes for sale, promotion at shop, City, State, National and International levels.

**Classification:** Window, Wall, Island, Counter, Atrium, Mobile, Kiosk, Store & Exhibition Display. **UNIT-II**

**Conceptualization:** Thematic Message, Seasonal Festival, State & Country oriented Display. **UNIT-III**

### **Display Props and Display Media:**

Use of Props, Publicity Media, Newspaper Ads, T.V., Hoardings, Posters, Banners, Billboards, Flyer, Panels, Logo, Trademarks.

### **UNIT-IV**

**Importance of Devices:** Lettering, Colour, Lights and different types of Lights to be used for Display, Mechanical Devices used.

**Devices used for Display:** Panels, Stands, Blocks.

**Note:** Lectures, Demonstrations & visits to various shopping Area, Departmental Stores, Malls, Exhibitions etc.

**Presentation:** Sketch Files, Drawings with Colours to give clear concept of Theme of Different types of Display.

### **Text Book(s):**

[T1] Designs for 20<sup>th</sup> century Interiors - Fiona Leolie, VH Publications, London.

[T2] Worldwide Interiors - International Federation of Interior Architects & Designers, Rikuyo-Sha, Japan, 1987

### **Reference Book(s):**

[R1] Interior Design: the new Freedom, Barvaralec Diamonstein, Rizzoli International Publications, New York, 1982

[R2] Interior Colour by Design, Jonathan Poore, Rockport Publishers, 1992.

## ART AND INTERIOR GRAPHICS - II

**Paper Code: CSJID-206**

L	T/P	S/D	Credits
1	0	4	3

### ***Objectives & Pre-requisites:***

*Students should acquire knowledge of the various drawings, which effectively Communicate their designs. To train the students in the field of Interior perspective drawing and sciography Presentation skills. Techniques for Construction as a tool towards effective Visualization and presentation.*

### **UNIT-I**

#### **Measured Drawings:**

1. Techniques in skilled drafting and perspectives
2. Knowledge of standardized drawings, importance, various architectural symbols and usage in drawing.
3. Drafting of Simple Room layout plan, elevations, and sections with dimensions, showing levels, and specifications writing.

### **UNIT-II**

Drafting of Simple Room layout plan, elevations, and sections with dimensions, showing levels, and specifications writing.

### **UNIT-III**

**Axonometric views** of rooms as per the drafted layout plan, furniture, etc.

1. Perspective
2. Terminology of perspective drafting and drawing viz planes, vanishing point, cone of vision, one point, two point, birds eye view, worm's view etc.
3. Drafting perspective views - one point, two point perspectives with colours and pencil rendering, knowledge of tones and textures, colour applications and choice of different medium.

### **UNIT-IV**

**Sciography:** Sciography in plan, elevation and basic sciography use in orthographic projections of simple objects and use of letter set and stencils.

#### **Note:**

1. There will be written and drawing examination on the above: Internal assessment will be based upon the drawings, drawings charts and written assignments.
2. Drawings Charts should be prepared on each topic mentioned above

#### **Text Book(s):**

[T1] Perspective & Sciography by Shankar Mulik, Allied Publishers.

[T2] Engineering Drawing, M.S. Kumar, D.D. Publications, Chennai

#### **Reference Book(s):**

[R1] Geometrical drawing for Art Students, I.H. Morris, Orient Longman, Chennai [R2] Perspective Principles, M.G. Shah & K.M. Kale, Asia Publications, Mumbai.

## FURNITURE DESIGN WORKSHOP – II

**Paper Code: CSJID-207**

L	T/P	S/D	Credits
1	0	4	3

### ***Objectives & Pre-requisites:***

*To familiarize the students about the different types of furniture and use in today's time. To teach furniture design by applying joinery for furniture manufacturing in relation to specific interiors. Designing of different furniture pieces based on the different types of Interiors.*

### **UNIT-I:**

#### **Introduction of various materials used in furniture**

1. Wood, metal and glass
2. Wood and wood based products: uses, availability and cost of soft and hard woods, defects, properties and structures of different woods. Different types of wood based products available e.g. plywood, board, particle board, veneer etc.

### **UNIT-II**

**Metals:** Mild steel, aluminum, brass, copper, wrought iron, GI springs steel etc. sections and raw materials available; market study and rates of the same.

**Glass:** Sizes, Thickness, Treatments, Rates and available of sheet properties, plates, wired, laminated colored insulated, heat Resistant and block glass.

### **UNIT-III**

Analysis of existing furniture with full size measured drawings like plan, elevation, sections and details. To understand the structure properly.

1. Joinery as applied to furniture
2. Redesigning of existing furniture keeping in mind the market and user's need

### **UNIT-IV**

**Upholstery Materials:** Types of foams, springs and other materials used for upholstering - Techniques of upholstering and various hardware used for the same.

### **NOTE:**

1. Free hand sketches of furniture
2. Report to be made of above items based on market study and factory visits for the same to understand the actual process.

### **Text Book(s):**

[T1] Butter Harry, "Do It Yourself Furniture".

[T2] Marlo Dal Febro, "How to Build Modern Furniture".

### **Reference Book(s):**

[R1] Joseph Aronson, "The Encyclopedia of Furniture", Crown Publishers, New York

[R2] Joseph De Chiara, "Time Saver Standards for Interior Design", McGraw Hill, New York

## HISTORY OF INTERIOR FURNITURE - II

**Paper Code: CSJID-208**

L	T/P	S/D	Credits
1	2	0	3

### **Objectives & Pre-requisites:**

*To familiarize the students about the historical interior and furniture and use in today's time. The aim of this subject is to develop a sense of appreciation for History of Interior with Furniture in relation to Interior Planning.*

### **UNIT-I**

#### **Occidental Interiors:**

1. Introduction to the periods of History, Cultural, Architectural & Interior Planning from ancient to middle ages, Renaissance, Modern Periods.
2. Concepts and Architectural characteristic of Ancient, Medieval, renaissance period explaining different Factors.
3. Influence ornamentalions- Motifs, Furniture, Doors, Windows, Pillars, Columns, Paneling, Ceiling, Cornices, Frieze, stone or wood inlay etc.

### **UNIT-II**

#### **Study of period furniture and motifs:**

1. European Furniture - (Renaissance onwards)
2. Italian, Spanish, French
3. Renaissance and its influence on ornamentation and furniture.
4. English, 15-18 Century (from Tudor to Victorian) style of furniture & decoration.
5. American Colonial period furniture and Ornamentation
6. 19<sup>th</sup> and 20<sup>th</sup> Century - French, English and American Styles.

### **UNIT-III:**

1. English, 15-18 Century (from Tudor to Victorian) style of furniture & decoration.
2. American Colonial period furniture and Ornamentation
3. 19<sup>th</sup> and 20<sup>th</sup> Century - French, English and American Styles.

### **UNIT-IV:**

#### **ORIENTAL**

Difference in basic shapes, form & motifs of East and West.

Wood & other materials used, familiarity with methods of GUILDING, EMBOSSING, MOULDING, STENCILING

Demonstration of marquetry, Brass, Ivory, Mother of Pearl, Inlay, Wood etc.

#### **NOTE:**

1. Study of market trends and styles and visits to Furniture factory & showroom.
2. Project on Design & Detailing of Single residential or Commercial Furniture wood, cane and metal.

#### **Text Book(s):**

[T1] English Furniture Style (1500 - 18) by Ralph E

[T2] Interior Design, Francis D. K. Ching, John Wiley & Sons, New York

#### **Reference Book(s):**

[R1] The Encyclopedia of Furniture, Joseph Aronson, Crown Publishers, New York

[R2] Time Saver Standards for Interior Design, Joseph De Chiara, McGraw Hill, New York



# INTERIOR MATERIAL CONSTRUCTION TECHNIQUES - I

**Paper Code: CSJID-209**

L	T/P	S/D	Credits
1	0	4	3

## ***Objectives & Pre-requisites:***

To familiarize the students of Interior Design on material and construction methodology. Designing of Steel & R.C.C. Structure. Understanding the basic components of the buildings envelope for small buildings.

## **UNIT-I**

1. Basic Building Components: Foundation till super structure
2. Stone and Brick Masonary: Types of Bonds
3. Different types of Stone Masonary

## **UNIT-II:**

### **Openings:**

1. Types of Arches & Lintels
2. Types of Doors & Windows
3. Types of Roofs.

## **UNIT III:**

### **Introduction to Structure:**

1. RCC, Structural Elements
2. RCC Beams
3. Reinforced Beams
4. Slabs
5. Columns

## **UNIT IV:**

1. Steel structure elements - Comparison of steel and RCC structure in building
2. Introduction to seismic zone considerations on high rise structures.
3. Introduction to design implications to disasters.

## **NOTE:**

1. There will be written and drawing examination for Unit I & Unit II, and Unit III & IV will be theory based: Internal assessment will be based upon the drawings, drawings sheets and written assignments.
2. Drawings sheets should be prepared on each topic mentioned above

## **Text Book(s):**

[T1] Sushil Kumar, "Building Construction"

[T2] S.C.Rangwala, "Engineering Materials", Charotar Publishing, Anand

## **Reference Book(s):**

[R1] W.B. Meckay, "Building Construction", Vol. 1, 2, 3, 4

[R2] Francis D. K. Ching, "Building Construction Illustrated", VNR, 1975.

**SCHEME OF EXAMINATION**

**And**

**SYLLABI**

**For**

**BACHELOR OF VOCATION**

**In**

**(INTERIOR DESIGN)**

**3<sup>rd</sup> SEMESTER & 4<sup>th</sup> SEMESTER**

**BACHELOR OF VOCATION  
(INTERIOR DESIGN)  
THIRD SEMESTER EXAMINATION**

Paper Code	Paper ID	Paper	L	T/P	S/D	Credits
<b>THEORY PAPERS</b>						
CSJID-301		Business Management	3	0	0	3
<b>PRACTICAL / VIVA VOCE / STUDIO</b>						
CSJID-302		Interior Design & Landscape - I	1	0	4	3
CSJID-303		Display Design - II	1	0	4	3
CSJID-304		Furniture Design Workshop -III	1	0	4	3
CSJID-305		Interior Services - I	1	0	4	3
CSJID-306		Interior Materials and Construction Technique –II	1	0	4	3
CSJID-307		AutoCAD – I	1	0	4	3
CSJID-308		Interior Project - II	0	1	8	5
CSJID-309		Site Visits	0	0	0	2
CSJID-310		Summer Project - I	0	0	0	2
<b>TOTAL</b>			<b>09</b>	<b>01</b>	<b>32</b>	<b>30</b>

**NOTE:** The above subjects require site visits, market survey, visit to various malls, exhibitions, art galleries & museums, etc.

**Training/ Interior Design Project-III** The students are required to undergo two weeks training during winter break and should submit project work for evaluation immediately thereafter for the declaration of result.

**BACHELOR OF VOCATION  
(INTERIOR DESIGN)  
FOURTH SEMESTER EXAMINATION**

<b>Paper Code</b>	<b>Paper ID</b>	<b>Paper</b>	<b>L</b>	<b>T/P</b>	<b>S/D</b>	<b>Credits</b>
<b>THEORY PAPERS</b>						
CSJID-401		Life Skills	3	0	0	3
<b>PRACTICAL / VIVA VOCE / STUDIO</b>						
CSJID-402		Interior Design & Landscape - II	1	0	4	3
CSJID-403		Display Design -III	1	0	4	3
CSJID-404		Furniture Design Workshop -IV	1	0	4	3
CSJID-405		Interior Services -II	1	0	4	3
CSJID-406		Interior Materials and Construction Technique - III	1	0	4	3
CSJID-407		AutoCAD - II	1	0	4	3
CSJID-408		Interior Project - III	0	1	8	5
CSJID-409		Site Visits	0	0	0	2
CSJID-410		Winter Project - II	0	0	0	2
<b>TOTAL</b>			<b>09</b>	<b>01</b>	<b>32</b>	<b>30</b>

**NOTE:** The above subjects require site visits, market survey, visit to various malls, exhibitions, art galleries & museums, etc.

**Training/ Interior Design Project-IV** The students are required to undergo two weeks training during winter break and should submit project work for evaluation immediately thereafter for the declaration of result.

## **BUSINESS MANAGEMENT**

**Paper Code: CSJID-301**

L	T/P	S/D	Credits
3	0	0	3

***Objectives:** This course is designed to expose the students to fundamental concepts of management, its processes and behavioural dynamics in organizations.*

***Learning Outcomes:** The students will be in a position to understand the concepts of Management and apply the same at the time of managing the organization in globally competitive world.*

### **UNIT-I**

Introduction to Management: Meaning and Nature of Management, Basic Concepts of Management Definition, Need and scope. Different schools of management - Behavioural, Scientific, Systems, Contingency, Management by Objectives, Management and Society: The External Environment, Social Responsibility, and Ethics: An Overview.

### **UNIT-II**

Management theories - F.W. Taylor - Henry Fayol - Elton Mayo, Evolution of Management (in India and Abroad), Levels of management, Process of Management: Managerial Skills, Tasks and Responsibilities of a Professional Manager.

### **UNIT-III**

Planning-Process and Techniques, Organizing- Definition, Process and Organizational Structure, Nature, Importance, principles, centralization - de centralization Organization. structures - Line & staff, functional, product, matrix, geographical, customer, virtual, boundary less. Staffing - Definition, Nature, Importance & steps.

### **UNIT-IV**

Directing-Principles and Process, Controlling-Process and Techniques, Problem Solving and Decision Making - Definition, Nature, Importance, steps; Controlling - Techniques & Steps, Leading - Nature and scope. Contemporary issues in Management.

### **Text Books:**

[T1] Stoner, R. James A.F., Edward Freeman Daniel R Gilbert Jr., Management 6<sup>th</sup> Ed. Prentice-Hall of India

[T2] Essentials of management by Koontz H and Weitrich, Tata, McGraw-Hill Education, Delhi.

### **Reference Books:**

[R1] Principles & Practice Of Management (Paper Back), Author: T.N.Chhabra, Publisher: Dhanpat Rai & Co (P) Ltd, Delhi

[R2] Management by James A.F.Stoner, Philip.W.Yetton, Jane F.Craig, Kim D.Johnston, Second Edition. Prentice Hall of India, Delhi.

## INTERIOR DESIGN & LANDSCAPE - I

**Paper Code: CSJD-302**

L	T/P	S/D	Credits
1	0	4	3

**Objective & Pre-requisite:** Use of Interior and Exterior Spaces awareness of Different types of plants - Indoor & Outdoor Plants. Designing of different Interior spaces.

### **UNIT-I**

Design small apartment like 2 BHK/ 3 BHK with complete furniture Layout, Drawing - Plan, Elevation 3D view/Perspective View, Furniture detailing, using Colour schemes, Accessories, and Electrical Layout Plan etc.

### **UNIT-II**

Design commercial space like small store or Petrol Pumps convince store complete furniture Layout, Drawing - Plan, Elevation 3D view/Perspective View, Furniture detailing, using Colour schemes, Accessories and Electrical layout.

### **UNIT-III**

#### **FOR LAND ESCAPE**

- Relation between Outdoor and Indoor Spaces.
- How to relate interior & Exterior Spaces?
- Type of land escape - Hard and soft landscape & its use in Interiors.
- Use of materials - Constriction, ground modeling, ground cover, laying of grass, stone path ways.

### **UNIT-IV**

- Potted plants, hanging baskets, shrubs, creepers, Hedges Fences, Tree Guards, Trills, water bodies, Fountain, Sculpture, Artificial pools and different types of lights used in Exteriors and their uses.
- Project on land escape Balcony area/Private gardens with layout, and a Colored perspective

**Note: Design to be made by students under the guidance of faculty.**

#### **Text Book(s):**

[T1] Indoor Plants by Xania Field

[T2] World Architecture (With Introduction to landscape Architecture) by G.K. Hiraskar

[T3] World of house plants by JOHANS

[T4] Indoor garden by HUNTER

[T5] Indoor gardening by READER DIGEST ASSOCIATION (LONDON)

[T6] Japanese homes and gardens by Marcus G. Sims

#### **Reference Book(s):**

[R1] Interior Decoration by Satish Chandra Agarwala

## DISPLAY DESIGN - II

**Paper Code: CSJID-303**

L	T/P	S/D	Credits
1	0	4	3

**Objective & Pre -requisite:** To make schemes for different types of displays

### **UNIT-I**

- Window Display for sales promotion of different types of products/ commodities
- Use of different devices like blocks, stands, panels.
- Use of different types of lights and colours.
- For shops like Gift Gallery, Leather Goods like Bags, Shoes, Pottery and Kitchenware, Apparel for kids, ladies and gents (Branded Stores)

### **UNIT-II**

Planning designing and 3D views in colour using props for expressing 'Theme' or 'Message' in display

### **UNIT-III**

Use of lettering and designing of logo and trade mark as an exercise on paper

### **UNIT-IV**

#### **COUNTER DISPLAYS**

- Types and use of counters in store display
- Importance of Counter Display
- Planning and designing the counter display for Jewellery, spectacles/ shades, cosmetic goods and precious goods like Ivory items, precious stones, and sandal wood items using theme for display.
- All of the above to be carried out in lecture studio class
- Visits to various stores, malls and exhibitions

**Note:** Demonstration and visit to various malls, stores, exhibition and workshops.

**Practical:** Sketching existing display and making sketch files on various topics.

## FURNITURE DESIGN WORKSHOP - III

**Paper Code: CSJID-304**

L	T/P	S/D	Credits
1	0	4	3

***Objective & Pre-requisite:** To familiarize the student about the knowledge of furniture design and various aspects of furniture for different spaces. Objective of this course is to develop competency to design and manufacture furniture in relation to human forms and use it for different types of Interiors*

### **UNIT-I**

Introduction to Furniture Period. Oriental furniture Period, Period Furniture - Oriental furniture, Historic & Period Furniture, History of furniture is Ancient World - Ancient Egypt, Greece, Rome, and Byzantine

### **UNIT-II**

History of Furniture in Middle Age early mediaeval 500-1000, Romomanesque, Gothic - 1200-1300,

Furniture Development in Italy - Pre-Renaissance (1100-140), Quattrocento (1400-1500), Cinquecento (1500-1600), Baroque (1560-1700), Classical Revival (1750-1800), Italian Directoire (1795-1799), Italian Empire (1800-1815)

Furniture Development in France

Early Renaissance (1515-1547), High Renaissance (1560-1610), Baroque (1643-1745), Rococo (1725-1774)

### **UNIT-III**

Neo-Classicism (1774-1793), Directorie (1795-1799), Empire (1800-1815), Art Nouvea (1870-1909), French provincial,

Furniture Development in England Tudor/ Elizabethan, Restoration (1600-1685), William & Mary (1689-1702), Queer Anne (1702-1714), Early George (1714-1760)

### **UNIT-IV**

Age of the great Designers (1725-1800), Thomas Chippendale (1718-1779), Robert Adam (1728-1792), George Happlewhite (1786), Thomas Sheraton (1751-1806)

History of the 20<sup>th</sup> Century Furniture - Furniture Development in Germany, France, England, Italy, Scandinavia & USA

### **Note:**

1. There will be written and drawing examination on the above: Internal assessment will be based upon the drawings, drawings sheets and written assignments.
2. Drawing sheets should be prepared on each topic mentioned above

### **Text Book(s):**

[T1] Interior Design - Ahmed Kasu

[T2] World Furniture Edited by Helena Hayward

### **Reference Book(s):**

[R1] English Furniture Styles (1500 - 18) by Ralph ETime Saver Standard for Interior Design and Space Planning - Mcgraw Hill New York

[R2] Antique Furniture by David P. Lindquist and Carlone C. Warren



## INTERIOR SERVICES – I

**Paper Code: CSJID-305**

L	T/P	S/D	Credits
1	0	4	3

**Objective & Pre -requisite:** This course aims at imparting knowledge in the area of interior services and their application like Water supply, lighting etc.

### **UNIT-I**

Water Supply

- (a) Hot and cold water supply system
- (b) Types and sizes of pipes
- (c) Water supply fitting to -
  - (i) Bathroom (ii) Water closet (iii) Sink (iv) Bath tub (v) Wash Basin (vi) Bidets (vii) Showers (viii) Urinals

### **UNIT-II**

Drainage

- (a) Principles of Drainage
- (b) Materials for drains
- (c) Traps - types, sizes, function and usage
- (d) Pipes sizes and shapes Sanitary fixtures - WC, washbasins, bath tubs, sinks (Sizes and types)
- (e) Septic Tank

**Note:** Simple exercises on preparation of layout plans for toilet, kitchen; both public and residential

### **UNIT-III**

Lighting

- (a) Different systems of lighting - (i) natural (ii) artificial
- (b) Units for measuring light

### **UNIT-IV**

Electrical layout

- (a) Planning - using electrical symbols
- (b) Selection of fitting for different work areas as - drawing room, bedroom, study room, bath, kitchen, etc.
- (c) Public places like offices, Malls, Hospitals

**Note:** Include basic knowledge of material finishes and maintenance

### **Text Book(s):**

- [T1] Building Construction by B.C. Punmia
- [T2] Building Construction by Sushil Kumar
- [T3] Materials by RANGWALA
- [T4] Sanitary engineering by RS DESHPANDEY
- [T5] Water supply and sanitation by CHARANJIT SHAH
- [T6] A-Z of practical building constructions & its management by SANDEEP MANTRI
- [T7] Electrical engineering by O.P. SHUKLA
- [T8] Water supply and sanitation engineering by P.K. UPADHYAY

### **Reference Book(s):**

- [R1] Sanitary Engineering by R.S. Deshpandey
- [R2] Water supply & Drainage Gurcharan Singh

## INTERIOR MATERIALS AND CONSTRUCTION TECHNIQUES - II

**Paper Code: CSJID-306**

L	T/P	S/D	Credits
1	0	4	3

**Objective & Pre-requisite:** Subject is used for understanding the structure to support Renovation/ Refurnishing / Designing of any Interior

### **UNIT-I**

#### **FLOORS**

- (a) Ground and upper floor
- (b) Different types of flooring materials, laying details

### **UNIT-II**

#### **ROOFS**

- (a) Pitched - different types,
- (b) Trusses - types and parts in sketches

### **UNIT-III**

#### **DOORS (WITH MECHANICAL DEVICES)**

- (a) Aluminum and steel doors
- (b) Types of door closing devices
- (c) Sliding doors
- (d) Sliding and folding doors
- (e) Revolving doors
- (f) Swing doors
- (g) Shop window front

### **UNIT-IV**

#### **WINDOWS**

- (a) Aluminum and steel windows
- (b) Different types - Bay, Bow, Corner, Dormer, Sky light, Louvered (French),
- (c) Casement, clerestory, Pivoted, Sliding, Ventilators.

#### **Text Book(s):**

- [T1] Building Construction by B.C.Punmia
- [T2] Building Construction by Sushil Kumar

#### **Reference Book(s):**

- [R1] Building Construction by W.B. McKay

## AUTO CAD - I

**Paper Code: CSJID-307**

L	T/P	S/D	Credits
1	0	4	3

*Objective & Pre -requisite: The objective of AutoCAD is to enable students to create 2D and 3D drawing in AutoCAD.*

### **UNIT-I**

- Introduction to Hardware and Software of CAD
- Introduction: what is CAD? What to expect from CAD?
- A look at CAD industry, working of a CAD system
- CAD and interior design, the future of CAD.
- Components of CAD system
- Hardware software overview, CAD hardware, CAD software, CAD user interface
- Drawing with a computer. CAD software in the future

### **UNIT-II**

- Introduction to AutoCAD
- Advantages of CAD
- Business applications for CAD
- Building Information Modeling, wrapping it up
- Benefits of CAD Design
- What is AutoCAD?
- Starting AutoCAD
- World Coordinate System
- AutoCAD Basics
- Basic Terminology
- Interior designing using AutoCAD

### **UNIT-III- CAD DRAWINGS**

- A prototype CAD drawing
- Limit setups for drawings
- Understanding scale concept and limits in AutoCAD
- Drawing tools, modify tools

### **UNIT-IV- COLOURS AND LINE TYPES**

- Line type, line type scale, line weights
- How to create a custom simple line type?
- AutoCAD command list

### **Text Book(s)**

[T1] Mastering AutoCAD by George Omura (BPB Publications)

### **Reference Book(s)**

[R1] Joseph A. Fiorello, CAD for interior basics, John Wiley &

Sons [R2] Timothy J. Barnes, Electronic CAD frame works,

Springer [R3] Schoon Maker, Ebook Corporation, Marcel Dekker

[R4] The CAD Guidebook: a basic manual for understanding and improving Computer-Aided Design, CRC Press

## INTERIOR PROJECT - II

**Paper Code: CSJID-308**

L	T/P	S/D	Credits
0	0	8	5

**Objective & Pre -requisite:** Objective of project is to develop the aesthetics and abilities to design commercial interiors with the help of Principles and Elements of design.

**Restaurants:** Any type Indian

- Any state with special effects of decor.
- Chinese
- Japanese

**Requirements:** layout plan, furniture to match the theme wall, floor, ceiling finishes and specific use of lights.

Importance of Furniture and its design to justify the type of restaurants students wants to design.

Role of upholstery wall finishes

- Paints
- Wallpapers
- Wall paneling, etc.
- Furniture sketches with dimensions and material details.
- 3D views in color
- Role of art work and elements used in, to enhance the theme of Restaurants may be justified in the views.
- Beauty Parlor: Requirements for drawing are the same.

## LIFE SKILLS

**Paper Code: CSJID-401**

L	T/P	S/D	Credits
3	0	0	3

***Objectives and Pre-requisites:** Students should have studied subjects such as General languages, social studies and Moral education at school level. The objective of this subject is to prepare the students to become a good citizen and a professional useful to the society.*

***Learning Outcomes:** The knowledge of this subject will give the student a value system which will help him in taking decisions in professional and social life for the benefit of society at large.*

### **UNIT-I**

**Introduction:** Definition and importance of Life Skills, Livelihood Skills, Survival Skills, Life Skills Approach, Life Skills based education, Life Skills Training- Implementation Models

### **UNIT-II**

Learning and Performance, Cognitive Development, Maturation, Adult Learning, Approaches to Learning Pillars of Education and Life Skills- Four Pillars: Learning to Know, learning to Do, learning to Live Together, learning to be learning throughout Life

### **UNIT-III**

**Social Skills and Negotiation Skills:** Self Awareness, Empathy, Effective Communication, Interpersonal Relationships

**Thinking Skills:** Nature, Element of Thought, Types, Concept Formation, Reasoning, Creative and Critical Thinking

### **UNIT-IV**

**Coping Skills:** Coping with Emotions, coping with Stress, Integrated use of thinking skills, social skills and coping skills

### **Text Book(s):**

[T1] Rajasenani, N.V. (2010). Life Skills, Personality and Leadership, Rajiv Gandhi National Institute of Youth Development, TamilNadu

[T2] Duffy, Grover, K., Eastwood, A. (2008). Psychology for Living-Adjustment, Growth and Behaviour Today, Pearson Education

### **Reference Book(s):**

[R1] Debra McGregor, (2007), "Developing Thinking; Developing Learning - A Guide to Skills in Education", Open University Press, New York, USA

[R2] Singh Madhu, (2003). "Understanding Life Skills, Background paper prepared for Education for All: The Leap to Equality"

[R3] Nair. A. Radhakrishnan, (2010). "Life Skills Training for Positive Behaviour", Rajiv Gandhi National Institute of Youth Development, Tamil Nadu.

[R4] Dahama O.P., Bhatnagar O.P, (2005). "Education and Communication for Development, (2nd Ed.)", Oxford & IBH Publishing Co. Pvt. Ltd. New Delhi

## INTERIOR DESIGN & LANDSCAPE - II

**Paper Code: CSJID-402**

L	T/P	S/D	Credits
1	0	4	3

***Objective & Pre-requisite:** To make Interior schemes of different types of interiors and use of landscape in interior & exterior*

### **UNIT-I**

Preparing Interior Scheme for

(a) Office Area for Architects or Interior Designers, Any Office

(b) Office Private individual office

### **UNIT-II**

Commercials office containing Reception Area chairman's chamber, Directors Room, Staff area with open cubicles, pantry & Toilet /Washroom area, conference hall & common staff area and drawing required as layout plans, elevation and perspective Views of different area in color with use of proper accessories, plants and flower arrangement for various areas of office

### **UNIT-III**

Fast Food Restaurant: - Existing Restaurant in neighborhood with layout plan and perspective view in the form of free hand sketches.

### **UNIT-IV**

Public Park of your own colony/ area or specified park by the faculty. Create space for public function stage and gazebo etc. Terrace garden to be designed, laying of grass on terrace, potted plants, hanging baskets, use of lights and making sitting areas for small family get-togethers.

### **Drawing required: -**

Layout plan, Elevations, and Perspective view of different areas in color with use of proper Accessories, plants and flower arrangements for various areas in office.

**NOTE: -** Design to be made by students under the guidance of faculty, lecture, demo visit of various malls/ shopping area for restaurants/ fast food visit, visit of nursery for the knowledge of plants and sculptures.

### **Text Book(s):**

[T1] Indoor Plants by Xania Field

[T2] World Architecture (With Introduction to landscape Architecture) by G.K. Hiraskar

[T3] World of house plants by JOHANS

[T4] Indoor garden by HUNTER

[T5] Indoor gardening by READER DIGEST ASSOCIATION (LONDON)

[T6] Japanese homes and gardens by Marcus G. Sims

### **Reference Book(s):**

[R1 ] Interior Decoration by Satish Chandra Agarwala

## DISPLAY DESIGN - III

**Paper Code: CSJID-403**

L	T/P	S/D	Credits
1	0	4	3

**Objective:** To make schemes for different types of displays

### **UNIT-I**

- Island display. Use and importance of island display.
- Special equipment's and display aids.
- Electronic and mechanical devices to create movement in display.
- Display of handicraft and handlooms of different states
- Electronic goods using proper theme.
- Furniture of different types (Residential, offices, etc.)

### **UNIT-II**

Preparation of plans, elevations, and 3D views in colour showing proper use of lights, colours, lettering and props.

### **UNIT-III**

- Wall-cum-island display.
- Furnishing store, toy shop, sports goods, etc.

### **UNIT-IV**

- Preparing plans, elevation and view, at least two different types of projects to be done in each semester.
- For understanding lectures demonstration in studio classes, visits to various showrooms, emporia, malls, exhibitions, etc.
- Brief reports of the visits to be submitted.

**Note:** Demonstration and visit to various malls, stores, exhibition and workshops.

**Practical:** Sketching existing display and making sketch files on various topics.

## FURNITURE DESIGN WORKSHOP - IV

**Paper Code: CSJID-404**

L	T/P	S/D	Credits
1	0	4	3

***Objective & Pre-requisite:** To teach furniture design, joinery for furniture manufacturing in relation to specific interiors, drawing of different furniture pieces based on the above.*

### **UNIT-I**

Introduction & Study of the space saving furniture. Residential & Commercial area

### **UNIT-II**

Different material used for making furniture like cane, Bamboo, Wood, Glam, Metal, PVC.

### **UNIT-III**

Concept of folding & Knock Down furniture, Movable, Modular furniture

### **UNIT-IV**

Different finishes used on furniture according to the climatic Conditions of different Countries.

### **Note:**

1. Furniture to be designed freehand sketch files to be made topic wise.
2. Visit to various furniture workshop exhibitions and showrooms for demonstrations and information from time to time

### **Text Book(s):**

[T1] The Encyclopedia of Furniture, Joseph Aronson, Crown Publishers, New York

[T2] Time Saver Standards for Interior Design, Joseph De Chiara, McGraw Hill, New York

[T3] Portable Furniture by Vicki Brooks

[T4] Shelves and Cabinets by Alexandria, Virginia

### **Reference Book(s):**

[R1] Interior Design, Francis D.K. Ching, John Wiley & Sons, New York

[R2] Office Furniture, Susan S.Szenasy, Facts on file Inc, New York



## INTERIOR SERVICES - II

**Paper Code: CSJID-405**

L	T/P	S/D	Credits
1	0	4	3

**Objective & Pre-requisite:** This course aims at imparting knowledge in the area of interior series and their application like Air Conditioning, Sound insulation.

### **UNIT-I**

#### **SOUND AND THERMAL INSULATION**

- Behavior of heat and sound propagation
- Acoustical defects such as echo, reverberation, sound foci
- Methods of correcting
- Sound absorbing materials
- Use of sound insulating materials in interiors like auditorium conference hall typing room

### **UNIT-II**

#### **FIRE SAFETY SYSTEMS**

- Causes of fire
- Fire proof (Resistant) material
- Application of fire proof (Resistant) material
- Survey - Firefighting equipment's

### **UNIT-III**

#### **VENTILATION**

- Ventilation (i) Natural (ii) Artificial or Mechanical
- Requirement of ventilations system
- Artificial (mechanical) Ventilation systems - Extraction, Plenum, Extraction-Plenum, Air Conditioning

### **UNIT-IV**

#### **AIR CONDITIONING**

- Definition
- Essentials of comfort Air Conditioning
- Types - Unit A/C, Central A/C, Split A/C, Package Unit, Central and Direct Expansion & Chilled water system(Indirect)
- Essentials of Air conditioning - Filtration, heating and cooling, humidification or dehumidification, air Circulation or distribution
- Latent heat, ton of air conditioning, refrigeration etc.

**Note:** Case study of Analysis of existing building

#### **Text Book(s):**

[T1] Building Construction by B.C.Punmia

[T2] Building Construction by Sushil Kumar

[T3] Materials by RANGWALA

[T4] Sanitary engineering by RS DESHPANDEY

[T5] Water supply and sanitation by CHARANJIT SHAH

[T6] A-Z of practice building constructions & its management By SANDEEP MANTRI

[T7] Electrical engineering by O.P. SHUKLA

[T8] Water supply and sanitation engineering by P.K. UPADHYAY

#### **Reference:**

[R1] Fire Fighting by S. Shah

[R2] Ready Reckoner by Charan Jeet S. Shah

## INTERIOR MATERIALS CONSTRUCTION TECHNIQUE - III

Paper Code: CSJID-406

L	T/P	S/D	Credits
1	0	4	3

*Objective & Pre -requisite: The objective is to refurnish different types of interior.*

### **UNIT-I**

#### **PANELING**

- Design and fixing details of paneling,
- materials used for paneling in interior
- Paneling in plywood

### **UNIT-II**

#### **PARTITIONS (SPACE DIVIDERS- FULL OR HALF PARTITIONS)**

- Types
- Simple partitions in wood, glass and metal
- Movable partitions
- Sound proof partition
- Various modern materials available in markets

### **UNIT-III**

#### **FALSE CEILING (TIMBER)**

- Purpose
- Materials used for fixing and finishing.
- Design and details of false ceiling in timber.

### **UNIT-IV**

#### **FALSE CEILING (OTHER MATERIALS)**

- Role of glass, gypsum, POP in false ceiling
- Fixing of Plaster of paris in false ceiling

#### **Text Book(s)**

[T1] Building Construction by Sushil Kumar

#### **Reference Book(s)**

[R1] Building Constructions by W. B. Mckay, V.P. Sikka, B.C. Punmia, ARORA AND BIRDI

## AUTO CAD - II

**Paper Code: CSJID-407**

L	T/P	S/D	Credits
1	0	4	3

**Objective & Pre -requisite:** *The objective of AutoCAD is to enable students to create 2D and 3D drawing in AutoCAD.*

### **UNIT-I**

- Introduction to working in AutoCAD and layers
- Introduction: the x, y co-ordinate system
- AutoCAD basics
- Layers
- Layer, text and dimensioning
- Working with layers

### **UNIT-II**

- Drawing insertion, object snap, zooming and panning
- Insert a graphic file into an existing Visio drawing
- Insert command
- Building Information Modeling, wrapping it up
- Benefits of CAD Design
- What is AutoCAD?
- Starting AutoCAD
- Insert to AutoCAD
- Object snap
- Snap in AutoCAD
- Zooming and panning, freehand sketch, editing and drawing

### **UNIT-III**

#### **PLAN AND 3D VIEW DRAWING**

- Introduction
- 3D CAD Terminology
- Isometric Drawing
- The 3D co-ordinate system
- 3D rotation
- Viewing in 3 -D objects
- Wire frame Drawing Techniques
- Line thickness Drawing Techniques
- Regions and 3-D faces

### **UNIT-IV**

#### **ENHANCED 3-D**

- Extruding and lofting
- Revolving objects
- AutoCAD 3-D modeling -3D views

#### **Text Book(s)**

[T1] Mastering AutoCAD by George Omura (BPB Publications)

#### **Reference Book(s)**

[R1] Joseph A. Fiorello, CAD for interior: Beyond the basics John Wiley & Sons

[R2] John K. Krouse, what every engineer should know about CAD & computer aided manufacturing: the CAD/CAM revolution, M. Dekker

[R3] Dinesh Maidasani, straight to the point- AutoCAD, Laxmi Publications, ltd.

## INTERIOR PROJECT - III

**Paper Code: CSJID-408**

L	T/P	S/D	Credits
0	1	8	5

***Objective & Pre -requisite:** Objective of the project is to develop the skill and ability to design versatile commercial interior design. Students to the best of their ability and aesthetics develop the project.*

Nursery school-cum-day boarding and activities school study at least two schools in the neighborhood. Submit the report before initiating the project.

**Drawings required are-**

- Layout plan of different areas and small open activity area.
- Furniture and special furniture for day boarders.
- The overall ambience with effective designs and landscape.

**Creative Art Center:** - For the age group of 12 onwards to learn dance, drama, music, drawing, painting, etc. Required drawings are the same as above (nursery school project).

**SCHEME OF EXAMINATION**

**And**

**SYLLABI**

**For**

**BACHELOR OF VOCATION**

**In**

**(INTERIOR DESIGN)**

**5<sup>th</sup> SEMESTER & 6<sup>th</sup> SEMESTER**

**BACHELOR OF VOCATION  
INTERIOR DESIGN  
FIFTH SEMESTER EXAMINATION**

Paper Code	Paper ID	Paper	L	T/P	S/D	Credits
<b>THEORY PAPERS</b>						
CSJID-501		Technical English	3	0	0	3
CSJID-502		Legal Ethics & Professional Practice	3	0	0	3
<b>GENERAL ELECTIVE - II (Select any one)</b>						
CSJID-503		NSS	0	2	0	1
CSJID-504		Sports	0	2	0	1
CSJID-505		ECO Club	0	2	0	1
<b>PRACTICAL/VIVA VOCE / STUDIO</b>						
CSJID-506		Interior Design - I	1 \	0	4	3
CSJID-507		Visual Merchandising - I	1	1	4	4
CSJID-508		Product Design - I	1	1	4	4
CSJID-509		Interior Materials Construction technique - V	1	0	4	3
CSJID-510		Interior Project - IV (Minor Project)	1	0	8	5
CSJID-511		Site Visits	0	0	0	2
CSJID-512		Summer Project - II	0	0	0	2
<b>TOTAL</b>			<b>11</b>	<b>04</b>	<b>24</b>	<b>30</b>

**NOTE:**

There are five industrial trainings to be carried out by the student(s) in B.Voc course. Industrial Trainings I, III and V will be with weightage of two credits each. These trainings are to be carried out during winter vacations for the duration of two weeks. Industrial Trainings II and IV will be with weightage of four credits each. These trainings are to be carried out during summer vacations for the duration of four to six weeks. These training may be done from industry/Skill Knowledge Providers (SKPs) /Sector Skill Councils (SSCs)/ Training Centers/ Institutes. Student should submit training report during evaluation. Industrial Training done at the end of the semester will be evaluated in the subsequent semester

**Note:**

The above subjects require site visits, market survey, visit to various malls, exhibition, art galleries & museum etc.

**Training/Interior Design Project-I**

The student are advised to undergo two weeks in- house training during winter break and should submit project work for evaluation during the sixth semester

\*Non University Examination System (NUES)

**BACHELOR OF VOCATION  
INTERIOR DESIGN  
SIXTH SEMESTER EXAMINATION**

Paper Code	Paper ID	Paper	L	T/P	S/D	Credits
<b>THEORY PAPERS</b>						
CSJID-601		Entrepreneurship & Project Management	3	1	0	4
<b>PRACTICAL/VIVA VOCE</b>						
CSJID-602		Interior Design - II	1	0	4	3
CSJID-603		Visual Merchandising - II	1	1	4	4
CSJID-604		Product Design - II	1	1	4	4
CSJID-605		Interior Budgeting & Estimation	1	0	4	3
CSJID-606		Interior Project - V (Major Project)**	0	0	12	6
CSJID-607		Exhibition and Portfolio	0	0	0	4
CSJID-608		Winter Project – III	0	0	0	2
<b>TOTAL</b>			<b>07</b>	<b>03</b>	<b>28</b>	<b>30</b>

**NOTE:**

There are five industrial trainings to be carried out by the student(s) in B.Voc course. Industrial Trainings I, III and V will be with weightage of two credits each. These trainings are to be carried out during winter vacations for the duration of two weeks. Industrial Trainings II and IV will be with weightage of four credits each. These trainings are to be carried out during summer vacations for the duration of four to six weeks. These training may be done from industry/Skill Knowledge Providers (SKPs) /Sector Skill Councils (SSCs)/ Training Centers/ Institutes. Student should submit training report during evaluation. Industrial Training done at the end of the semester will be evaluated in the subsequent semester

**Note:** 04 hrs per week are kept for outdoor visits as per the requirement of the above subject which will include site visits, market survey, and visit to various malls, Exhibitions art galleries and museums etc. the same shall be reflected in the time table.

\*\*The student will submit a synopsis at the beginning of the semester for approval from the departmental committee in a specified format, thereafter he/she will have to present the progress of the work through seminars and progress reports. Seminar related to major project should be delivered one month after starting of Semester. The progress will be monitored through seminars and progress reports. *The students may be allowed to do Industrial Major Project on-site during 5 days in a week and class work should be completed in 2 working days in the respective institution. If in case, the classes are held during Saturday /Sunday then faculty should be given off in lieu of Saturday/Sunday.*

**For Award of Diploma:**

1. The total number of the credits of the Diploma (Interior Design) Programme = 60
2. Student shall be required to appear in examinations of all courses. However, to award the Diploma (Interior Design) a student shall be required to earn a minimum of 58 credits.

**For Award of Advanced Diploma:**

1. The total number of the credits of the Advance Diploma (Interior Design) Programme = 120
2. Student shall be required to appear in examinations of all courses. However, to award the Advanced Diploma (Interior Design) a student shall be required to earn a minimum of 116 credits.

**For Award of B. Voc Degree:**

1. The total number of the credits of the B. Voc. (Interior Design) Programme = 180
2. Student shall be required to appear in examinations of all courses. However, to award the B. Voc. (Interior Design) degree, a student shall be required to earn a minimum of 168 credits.

## TECHNICAL ENGLISH

**Paper Code: CSJID-501**

L	T/P	S/D	Credits
3	0	0	3

### **Objectives:**

*To equip students to recognize, explain, and use the rhetorical strategies and the formal elements of specific genres of technical communication, such as technical abstracts, data based research reports, instructional manuals, technical descriptions etc.*

*To help students understand the process of collection, analysis, documentation, and reporting of research clearly, concisely, logically, and ethically and understand the standards for legitimate interpretations of research data within scientific and technical communities.*

*To initiate students into critical and creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information towards meaningful and effective communication*

*To help students understand ethical considerations in technical and professional writing, realizing the consequences of various communication acts.*

**Learning Outcomes:** *Upon successful completion of the course the student shall be able to:*

*Understand and demonstrate composing processes through invention, organization, drafting, revision, editing, and presentation as evidenced in satisfactory completion of all the written, visual, web-based, and oral discourses to be submitted in this course.*

*To recognize and use the rhetorical and stylistic elements necessary for the successful practice of scientific and technical communication;*

*Create various products most frequently used in scientific and technical communication.*

*Develop ethical problem-solving communication skills in professional situations.*

### **UNIT-I**

Technical Writing: Definition, Purpose and Characteristics of Technical Writing.

Technical Writing Skills: Methods and means of the Pre-writing stage, the Writing Stage and the Post-Writing Stage.

### **UNIT-II**

Formal Formatting: Arrangement of Formal Elements, Front Material, Format Devices in the Body of Formal Report-Heading, Pagination, End Material - Citations, References and Bibliography, Appendix.

### **UNIT-III**

Writing and Designing for Electronic Media: Use of Internet as a Writing tool; designing and writing for multimedia applications and the World Wide Web.

### **UNIT-IV**

Research and Writing Ethics: Explaining Forms and Consequences of Plagiarism, Introduction to Intellectual Property Right and Copy Right Laws.

### **Text Book(s):**

[T1] Sides, Charles H., "How to Write and Present Technical Information", Cambridge Univ. Press, 1999.

[T2] Basu, B. N., "Technical Writing", PHI Learning Pvt. Ltd., 2007.

### **Reference Book(s):**

[R1] Beer, David F. and David A. McMurrey, "A Guide to Writing as an Engineer", New York: Wiley, 2005.

[R2] Gibaldi, Joseph, and Walter S. Achtert, "MLA Handbook for Writers of Research Papers, Thesis, and Dissertations", Modern Language Association, 1980.

[R3] Rubens, Philip, "Science and Technical Writing: A Manual of Style", Routledge, 2002. [R4] Anderson, Marilyn, Pramod K. Nayar, and Madhuchandra Sen, "Critical Thinking, Academic Writing and Presentation Skills", Pearson. 2010.



## LEGAL ETHICS & PROFESSIONAL PRACTICE

Paper Code: CSJID-502

L	T/P	S/D	Credits
3	0	0	3

*Objectives & Pre-requisites: To acquaint the students with role of an interior designer in society, scale of Charges conduct in the practice.*

### **UNIT-I**

#### **Introduction - Contract Document**

- Contract and conditions of engagement of interior projects
- Responsibilities, liabilities and duties of interior designer
- Terms and conditions for entering into Contact, Scale of charges and mode of payment for the professional services to be offered
- Duties and liabilities as per the Architect Act, 1972
- Contractor's and Owner's (Employer's) Duties and liabilities.

### **UNIT-II**

#### **Professional Procedures:**

- Procedure from date of enquiry, keeping of cost, job records, modifications, alteration to estimates, Preparation of schedules and progress charts, Supervision of sub-trades and sub-contractors.

### **UNIT III**

#### **Code of Practice**

- Confidential information for client's employer, Encroachment on existing project of another designer in direct competition, Fees, scale of change, commission and discount, retaining fees, rejection.
- Advertising, press display, classified columns, announcement of change of address, size of name plate etc.
- Conditions of agreements and terms of contracts alternatives agreements, out of pocket expenses, stages of payment, settlement of disputes and arbitration

### **UNIT IV**

#### **Job Procedures**

- Regulations & restrictions on various types of new & old work, Local by-laws pertaining to interiors & renovation of buildings, Storage & maintenance of plants & materials, Liabilities, Local tradesmen working conditions & practices.

#### **Text Book(s):**

[T1] Professional Practice by Dr. Roshan H. Namavati

[T2] Metric Handbook (Planning & Design Data) 2<sup>nd</sup> Ed. Edited by, David Adler

#### **Reference Book(s):**

[R1] Professional Practice by [Krishnamurthy K.G](#)

[R2] The Construction of Building by R. Barry.

**(General Elective - II)**

**NSS/ SPORTS/ ECO CLUB**

**Paper Code: CSJID-503/ 504/ 505**

L	T/P	S/D	Credits
0	2	0	1

*Students should actively participate in either of the above activities of the institute during academic session. Credits shall be awarded accordingly based on final assessment by internal institute committee constituted by the Principal/Director of the respective institutes. Students are encouraged organize events and awards if any shall be distributed to students during annual day/ specific function day accordingly*

## INTERIOR DESIGN - I

**Paper Code: CSJID-506**

L	T/P	S/D	Credits
1	0	4	3

*Objectives: Objective of this subject is to develop the ability to design commercial interiors of various types. The exercise base of commercial interiors is this semester must be handled keeping aesthetics in mind and special effects to justify the design.*

### **UNIT-I**

- Green Architecture - Construction Techniques & usages of building materials - efficient, earth friendly or recycled for the creation of eco-friendly & intelligent interiors.
- Fire Safety - Introduction to fire safety, causes of death in fire, Responsibility of Designer's towards fire safety.
- Disaster Management - Understanding Disasters, Geological and Mountain Area Disasters, Wind and Water Related Natural Disaster, Man Made Disasters

### **UNIT-II**

#### **Perspective in all mediums**

Eating house: Cuisine based restaurants and fine dining areas. Bed and Breakfast or Guest House Project with dining area which could be used for small events like Birthday Parties, weddings, functions (like Mehendi, Sangeet, etc.) or for exhibitions, etc.

### **UNIT-III**

#### **Wash room -Perspective in all mediums.**

- Residential area with all latest equipment's
- Commercial washroom; Either of 5 Star Hotel or a Mall.

### **UNIT-IV**

#### **Perspective in all mediums**

- A retail out let like Reliance Fresh, Big Apple, Save Max, Big Bazar, etc
- Layout plan, elevation with special stacking racks, special effects of light in displays areas of goods, 3D view in color.

In all projects drawings required would be: Plan, light/ electrical plan, elevations, 3Dviews, sketches of special related services and areas too.

#### **Text Book(s):**

[T1] Color dictionary by Brasi & Workman

[T2] Indian history by Goyal

[T3] Building Services, Anthony Rowley

[T4] Fire Fightings, S. Shah

[T5] Great interiors by Grant

[T6] Central Water Commission, 1989, Manual of Flood Forecasting, New Delhi.

#### **Reference Book(s):**

[R1] Interior design by Ahmed A. Kasu

[R2] Landscape Detailing Surfaces- Michael Littlewood

[R3] Illustrated history of Interior Decoration by Praz

## VISUAL MERCHANDISING - I

**Paper Code: CSJID-507**

L	T/P	S/D	Credits
1	1	4	4

***Objectives:** Since the background of Display is there in Visual Merchandising, students are given knowledge of promoting sales of products. Students take up assignments as Display on lists or exhibition designer.*

### **UNIT-I**

#### **Atrium/ Foyer Display**

- What is atrium or foyer display?
- Its importance and how to present the same?
- Scope of atrium display
- Planning and colored view for approval on sheet/ drawings.

### **UNIT-II**

- Automobile
  - Car
  - Two Wheeler
- Cold drinks or new juice introduction in the atrium

### **UNIT-III Mobile displays**

- Its importance and use
- Introducing new products with the help of publicity material like placard, hoarding, leaflet/flyers

### **UNIT-IV**

- Exercises on cosmetic display, landscape, plants and landscape accessories display

**NOTE:** Students must visit malls, shopping areas, exhibitions for the understanding the same.

#### **Text Book(s):**

[T1] Image India by Dhamija

[T2] Indian folk art and craft by Dhamija

[T3] Indian cultures through the ages by Vidyarthi

#### **Reference Book(s):**

[R1] International shop design by Kasper

[R2] Indian architecture according to silpsastra by Acharya

## PRODUCT DESIGN - I

**Paper Code: CSJID-508**

L	T/P	S/D	Credits
1	1	4	4

**Objectives:** Students must learn the techniques of design the product first and production of the same in any medium, they select.

### **UNIT-I:**

- Section of material, understand the properties of material
- Material to work on I unit is PAPER
- Products which can be made are: Pen stand, tissue paper box, gift box, wedding card box, sweets or chocolate box. The drawing with complete size and details must be made.

### **UNIT-II:**

**Material:** - mount board, choksi board

**Products:** - Photo frame, table calendar, wall clock, wall hanging, etc. With proper design and drawing on sheet with details.

### **UNIT-III:**

**Material:** - Thermocol

**Products:** - accessories/ props for Birthday Party for theme oriented, etc.

All these accessories must be drawn on paper with complete details and color schemes

Prepare: Masks for different occasions, Candels, Diyas, Flowers, etc. to orient he theme

### **UNIT-IV:**

**Material:** - Cloth, wire, ribbon, wool, sutli, etc.

**Products:** - wind chimes, decorative balance, flowers with cloth, ribbon and wool, etc. All designs to be made on drawing sheets

## **TOOLS/ EQUIPMENTS REQUIRED FOR HOLDING PRODUCT DESIGN**

**WORKSHOP:** Scissors, paper cutters, pliers, small hammers

These are required for cutting the edges of material smoother and turning and twisting of wire, or other materials for better and firm joints.

### **Text Book(s):**

[T1] Wood bonding handbook by Stevens & Turner

[T2] Indian decorative design by Aryan

[T3] Furniture in color by Synge

[T4] Furniture making by Collisehon

### **Reference Book(s):**

[R1] Furniture face lifts by Wagstaff & Thurgood

[R2] How to make your own furniture

## INTERIOR MATERIALS CONSTRUCTION TECHNIQUE - II

**Paper Code: CSJID-509**

L	T/P	S/D	Credits
1	0	4	3

*Objectives: The objective is to refurnished different types of interiors.*

### **UNIT-I**

**TECHNICAL TERMS** - e.g. Tread, riser, flight, landing, nosing, Scotia, soffit, newel post, balusters, headroom, handrail, balustrade, etc.

#### **REQUIREMENTS OF GOOD STAIRS:**

- Location
- Width of stair
- Length of flight
- Pitch of stair
- Headroom
- Balustrade
- Step dimensions
- Material of construction

### **UNIT-II**

- Calculation of step size
- Types of steps-
- Round ended
- Bull nose step
- Flier
- Splayed step
- Commode step
- Dancing step

### **UNIT-III**

#### **CLASSIFICATION OF STAIRCASE**

- Straight
- Turning stairs- quarter turn
- Half turn (dog legged, open newel, geometrical)
- 3-quarter turn
- Bifurcated
- Continuous stair (circular, spiral, helical) inn different materials like Timber, Metal, Stone, Brick, RCC etc.

### **UNIT-IV**

#### **CLADDING & CEILING MATERIALS & FINISHES & its APPLICATION -**

- Define Cladding
- Stone, Timber, Weather Board, Fiber Cement, Brick
- RCC, Vinyl, Metal, etc

#### **TYPES OF FALSE CEILING:**

- Gypsum, Plaster of Paris, Wooden, Glass, Metal,
- Synthetic Leather or Cloth Ceiling.

#### **Text Book(s):**

[T1] The Construction of Buildings - Barry

[T2] Building Construction VOL. 1, 2, 3, 4 BY W.B. Meckay

[T3] Interior Construction & Detailing - David Kent Ballast.

**Reference Book(s):** [R1 ] Building Construction by B.C. Punmia [R2] Building Construction By Sanjay Mahajan

## INTERIOR PROJECT - IV

### (Minor Project)

L	T/P	S/D	Credits
1	0	8	5

**Paper Code: CSJID-510**

**Objectives:** To make the students understand the working of various commercial spaces and importance of areas and space allotment for each working area.

Handling of different types of projects with proper space allotment Project which can be undertaken (any one) is Bank, Library or Airlines office.

First, they must study the existing office by the visiting and understanding the work of the project, minimum space requirement and division of work stations.

Submit a report of their visit with some existing areas. Drawings requires in the form of sketches.

Give a presentation on the same in the class.

The project will be given by the teacher.

### **Drawing required:**

- Number of people working
- Work stations
- Furniture layout plan with amenities required
- Finishes: wall, floor and ceiling
- Light/ electric plan
- Elevation of all existing areas
- 3D views with color
- Sample chart-
  - 1) wall finishes like paint or any other finish
  - 2) floor finish samples, ceiling finishes with samples
  - 3) Furnishing samples with all rates and fixing expenditure, etc. which would give the approx. expenditure to be incurred in the project.

VIVA on the project with internal and external exams to be held after the submission of the project using AutoCAD.

### **Text Book(s):**

- [T1] Color dictionary by Brasi & Workman
- [T2] Indian history by Goyal
- [T3] Floor design by Sareen
- [T4] Ideal home book of kitchen
- [T5] Great interiors by Grant
- [T6] Interior design principles by M. Pratap Rao

### **Reference Book(s):**

- [R1] Interior design by Ahmed A. Kasu
- [R2] Encyclopedia for color theory
- [R3] Illustrated history of Interior Decoration by Praz

# ENTREPRENEURSHIP & PROJECT MANAGEMENT

**Paper Code: CSJID-601**

L	T/P	S/D	Credits
3	1	0	4

## **UNIT-I**

### **ENTREPRENEUR**

- Concept and nature, scope and philosophy of entrepreneurship
- Distinction between self-employment and entrepreneurship
- Importance of entrepreneurship and self-employment in our country
- Entrepreneurial traits
- Different forms of business organizations (sole proprietorship, partnership, co-operative societies, public and private undertakings)

## **UNIT-II**

### **ENTREPRENEURIAL SUPPORT SYSTEM**

- Introduction
- Sources of information
- Market survey and opportunity identification

## **UNIT-III**

### **ELEMENTS OF MANAGEMENT**

- Principles of management and managerial functions like planning, organizing, staffing, directing and controlling, industrial management
- Value of human relations in management

## **UNIT-IV**

### **PROJECT MANAGEMENT**

- Introduction to project management
- Time of progress chart, bar chart, Gantt chart, CPM & PERT
- Planning of activities
- Allocation of time to various activities
- Personal management and industrial relations- recruitments, selection, training, wage and salary administration related to small industries
- Costing- methods and techniques of minimizing cost
- Marketing- concept and functions, marketing mix, product planning, salesmanship and its principles
- Sources of finance
- Setting up of small scale industry with proper knowledge of Government Policies for financial resources (like banks and other financial bodies).

### **Text Book(s):**

[T1] Entrepreneurship development and management by R. K. Singhal

[T2] Strategic Entrepreneurship by P. K. Gupta

### **Reference Book(s):**

[R1] Construction management and accounts by V. N. Vazirani & S. P. Chandola

[R2] Principles of management by Y. K. Bhushan

[R3] Entrepreneurship and project management by Jasmer Singh Saini



## INTERIOR DESIGN - II

**Paper Code: CSJID-602**

L	T/P	S/D	Credits
1	0	4	3

*Objectives: The objective is to make the students understand and enable them to execute commercial interiors with theme of style. Perspective in all medium.*

### **UNIT-I**

- Introduction to Climatology, Climate & Role of Interior Designer.
- Design for Hot, Dry & Humid Climate. Implementing in different Designs.
- Surveying - Definition, Objective & it's types.

### **UNIT-II**

Coffee bar with book magazines and gift stalls, a special souvenir walls of their brand **Drawings required:**

- Plan, elevations, light/ electric plan, special effect of walls, ceiling and exclusive furniture 3D views with vibrant color schemes.
- Coffee shop 24 hrs at 5-star hotel with Breakfast Island, lunch buffet, at night sweet & salad bar for minimum covers of 80-100.

### **Drawings required:**

- Plan, elevations, light/ electric plan, special effects of different display of meals (breakfast, lunch dinner, etc.), 3Dviews in color creating an ambience to attract all age groups.

### **UNIT-III**

- Unisex beauty parlour with chai/ coffee bar area with listed eats
- The parlour must have latest equipment's

### **Drawings required:**

- Layout plan, special light required for treatment
- 3Dviews with color and special furniture required for parlour

### **UNIT-IV**

- Apparel and accessories studio for all (kids, men and women) all age group with special brand like ZARA, BENETTON, etc. with window display in front of the shop. Special display counter for display of apparel and racks for stacking

### **Drawings required:**

- Plan, elevation with special wall treatment, 3D views in color and highlight the display areas.

### **Text Book(s):**

[T1] Color dictionary by Brasi & Workman

[T2] Indian history by Goyal

[T3] Floor design by Sareen

[T4] Ideal home book of kitchen

[T5] Encyclopedia for color theory

[T6] Illustrated history of Interior Decoration by Praz

### **Reference Book(s):**

[R1] Great interiors by Grant

[R2] Interior design by Ahmed A. Kasu

[R3] Surveying Vol. I, II and III by Dr. B.C. Punamia

## VISUAL MERCHANDISING - II

**Paper Code: CSJID-603**

L	T/P	S/D	Credits
1	1	4	4

*Objectives: Since the background of Display is there in Visual Merchandising, students are given knowledge of promoting sales of products. Students take up assignments as Display on lists or exhibition designer.*

### **UNIT-I**

- Design a mela/carnival
- Difference between the two, importance of exhibition Ex- project on mela (Suraj Kund or Diwali mela)

### **UNIT-II**

- EX- Carnival in school or colonies
- Christmas or new year
- Design with accessories and props- the project planning and 3D views in color

### **UNIT-III**

- Exhibition private (of an individual)
- Group of artists to participate under one roof.
- Interior designer, furniture designer, accessories designer, light designer new material introduction Ex- Planning and 3D views in color

### **UNIT-IV**

Exhibition like trade fair, weekend one-day show of different states and countries, studio project with planning and colored views as presentation.

### **Note(s):**

- Students must visit exhibition at trade fair ground and at various malls, etc.
- Students after learning the designing of exhibition can work as visual merchandise designer and can take up independent projects.

### **Text Book(s):**

[T1] Image India by Dhamij a

[T2] Indian folk art and craft by Dhamija

[T3] Indian cultures through the ages by Vidyarthi

### **Reference Book(s):**

[R1] International shop design by Kasper

[R2] Indian architecture according to silpsastra by Acharya



## PRODUCT DESIGN - II

**Paper Code: CSJID-604**

L	T/P	S/D	Credits
1	1	4	4

**Objectives:** Students to understand the, how to construct the different types of products with different types of materials like metal, wood, clay, plastic, etc.

**UNIT I:** Design and make any one product in metal sheet foil or out of waste cans or bottles (glass, plastic, tin) which can be easily cut with scissors or cutters.

**UNIT II:** Material- clay/ terracotta/ tiles Design, draw and create masks, door handles, knobs of clay hand work. Terracotta- tiles and work on them with ethnic motives create wall murals, table tops, planters, etc.

**UNIT III:** Design on sheets different types of furniture items like different types of tables, chairs, beds and some small items like racks, shelves, bench, planters, etc.

**UNIT IV:** One furniture (with joinery details) to be constructed in workshop, polish, painting, for the purpose of learning the finishes on furniture.

**Text Book(s):**

[T1] Wood bonding handbook by Stevens & Turner [T2] Indian decorative design by Aryan

[T3] Furniture in color by Synge [T4] How to make your own furniture

**Reference Book(s):**

[R1] Furniture making by Collisehon

[R2] Furniture face lifts by Wagstaff & Thurgood

## INTERIOR BUDGETING & ESTIMATION

**Paper Code: CSJID-605**

L	T/P	S/D	Credits
1	0	4	3

**Objectives:** Basic understanding of quantities, cost & methods to make estimates. The students should be able to make estimate of interior schemes. Proposed for the client.

### **UNIT-I**

#### **Estimate:**

- Different Types
- General Principles of approx. methods of costing for various interior works for all types of old & new works.

### **UNIT-II**

#### **Specification:**

- Definition.
- Principles of specification
- Types of specification
- Partition
- Partitional walls commercial Plywood, block board Laminated Sheet, glass etc.
- Plastering with cement mortar.
- Flooring -Cement conc., marble, mosaic
- Distempering & Colours washing.
- Wood work: - Doors, window, partition, cabinet sets, false ceiling, furniture wall Partitions, wall paneling, table, chair etc.
- Water supply & Sanitary Fitting etc.

### **UNIT-III**

#### **Taking out Quantities:**

- Units of measurement -cubic meter, square meter, running meter.
- General rules for measurements.
- Quantity Survey: Spot item
  - > Prime cost
  - > Provisional sums
  - > Costing of work

### **UNIT IV**

- Data collection & keeping information of market prices of materials
- Exercises on preparation & calling of Tenders.
- Estimation & Schedule of Quantities for furniture pieces
- Estimation of one complete project of interior
- Preparation of above estimates using computer software

#### **Text Book(s):**

[T1] A Text Book of Estimation, Costing and Valuation by Gurcharan Singh and Jagdish Singh

[T2] Budgeting & Estimation by B. N. Dutta

#### **Reference Book(s):**

[R1] Civil Estimating & Costing by Amarjit Agarwal and A. K. Upadhyya.

[R2] Professional Practice by Dr. Roshan H. Namavati

## INTERIOR PROJECT - V

(Major Project)

**Paper Code: CSJID-606**

L	T/P	S/D	Credits
0	0	12	6

**Objectives:** Students must be able to handle the complete project and must understand how and from where to require the required material and get the work executed as an independent entrepreneur Any one project to be taken up and complete with the given time.

**Projects:** Mall, Medical interior (nursing home, poly clinic, E.N.T. or dental clinic)

The student must study any one given project by visiting the existing sites; understand the working and requirement of the existing interior of the same.

An independent presentation by the student in class Then the project will be given by teacher to students.

Drawing required:

Layout plan & electric plan, special furniture requirements creating proper ambience to make the area comply with bylaws.

The standards and norms, elevations of existing areas with all types of finishes, 3D views in color and all interior Drawings to be made in AutoCAD & 3Ds MAX.

After completing the project students must submit the necessary drawings, documentation and presentation of high professional standards and the entire design process and methodology must be meticulously documented.

**Text Book(s):**

[T1] Color dictionary by Brasi & Workman

[T2] Indian history by Goyal

[T3] Floor design by Sareen

[T4] Ideal home book of kitchen

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