

## **B. Voc. in Interior Design**

### **Semester- II**

#### **Basic of Construction Studies**

**Course Code: B. Voc. /ID/203**

**Course Name:** Basic of Construction Studies

**Credits: 4**

**Hours: 75**

#### **Course Brief:**

To Demonstrate Technical Skills in Construction Process

#### **Learning Objective:**

- Introduction to components that form to make a Building Structure
- Understanding technical details of the Building Elements
- To Demonstrate Skills in Construction Tools and Processes

<b>Units</b>	<b>Course Contents</b>	<b>No. of hours</b>
<b>Unit-I</b>	<b>Introduction to Various Building elements.</b> <ul style="list-style-type: none"><li>• Elements – Foundation, Plinth, Walls, Arches, Doors, Windows, Floor, Roof, Staircase</li><li>• Types of - Foundation, Plinth, Walls, Arches, Doors, Windows, Floor, Roof, Staircase</li><li>• Significance of these elements in the Building Structure</li></ul>	12
<b>Unit-II</b>	<b>Construction Techniques for each Building Components</b> <ul style="list-style-type: none"><li>• Construction Processes for - Foundation, Plinth, Walls, Arches, Doors, Windows, Lintel, Floor, Roof, Staircase</li><li>• Masonry Work: Brick &amp; Stone Masonry</li><li>• Drafting - Foundation, Plinth, Walls, Arches, Doors, Windows, Floor, Roof, Staircase</li></ul>	12

<b>Unit- III</b>	<b>Joinery Details</b> <ul style="list-style-type: none"> <li>• Industry Terminologies for construction process work and materials</li> <li>• Hardware study used in construction processes with various materials</li> <li>• Methods of Fastening; Welding, brazing, gluing &amp; pasting.</li> </ul>	12
<b>Unit - IV</b>	<b>Health &amp; Safety Consideration</b> <ul style="list-style-type: none"> <li>• To exhibit Health and Safety measures while working with the tools and machineries for material construction processes</li> </ul>	12
<b>Unit - V</b>	<b>Documentation</b> <ul style="list-style-type: none"> <li>• Drafted Construction work compilation</li> <li>• Terminologies &amp; Hardware Study</li> <li>• Health and Safety measures</li> </ul>	12

### Learning Outcome:

- Understanding of Building materials and Components
- Exhibit Skill in making Processes with various Building Components
- Technical Drafting of construction methods in Interiors
- Analyze Tactile properties of hardware used in construction methods
- Consideration of Health and Safety measures

### References:

- Concrete Technology Theory and Practice (English, Paperback, M. S. Shetty) 2006
- Technology Illustrated Being Series Of Treatises On The Construction Of Roads, Bridges, Canals, Hydraulic Engines, Flouring And Spinning Mills, And On The Principal Processes On Cotton Manufacture, Coining, Mining, Metallurgy, Agriculture, Etc. (English, Paperback, Anon.), 2011 (Author-ANON)
- Concrete Construction Engineering Handbook 2 2nd Edition (English, Hardcover, Nawy) 2008
- Construction Technology- Volume 2 (English, Paperback, Roy Chudley) 2014
- Building Construction (English, Paperback, Medan Mehta Ph.D., Walter Scarborough, Diane Arm Priest,) 2016

## Basics of Digital Tools

**Course Code: B. Voc. /GEN/102**

**Course Name: Basic of Digital Tools**

**Credits: 4**

**Hours: 90**

### Course Brief:

This introductory course provides students with the opportunity to practice using computer operating systems.

### Learning Objective:

In this module, you will learn how to use a computer. You will learn about documentation, making of spreadsheet, presentation and web surfing with security.

Units	Course Contents	No. of hours
Unit -I	<b>Knowing computer</b> <ul style="list-style-type: none"><li>• What is Computer, Basic Applications of Computer.</li><li>• Components of Computer System; Hardware &amp; Software</li><li>• Computer Memory: Volatile &amp; Non-Volatile</li><li>• Concept of Computing, Data and Information.</li><li>• Installing &amp; Uninstalling Software</li></ul>	15
Unit -II	<b>Windows Utility</b> <ul style="list-style-type: none"><li>• What is an Operating System; Basics of Popular Operating Systems; The User Interface.</li><li>• Use of Common Icons, Status Bar, Using Menu and Menu-selection, running an Application, Viewing of File, Folders and Directories, Creating and Renaming of files and folders.</li><li>• Opening and closing of different Windows; Using help, Creating Shortcuts, Basics of O.S Setup; Common utilities.</li></ul>	15

<p><b>Unit -III</b></p>	<p><b>Microsoft Word</b></p> <ul style="list-style-type: none"> <li>● Introduction- Title bar, Menu bar, Toolbar, Ruler, Document view, Text area, Exiting</li> <li>● Basic commands, Shortcut Notations</li> <li>● Formatting Text &amp; Page Setup &amp; Printing</li> <li>● Working with paragraphs – Space before &amp; after, Line spacing, first line indent, Indentation, Alignment, Hanging Indent</li> <li>● Tabkey, Bulleting, Numbering, Undo, Redo, Help</li> <li>● MS Word Table</li> <li>● Using SmartArt &amp; Textbox</li> <li>● Skills for Resume Writing</li> <li>● What is Computer, Basic Applications of Computer.</li> <li>● Components of Computer System; Hardware &amp; Software</li> <li>● Computer Memory: Volatile &amp; Non-Volatile Concept of Computing</li> </ul>	<p>15</p>
<p><b>Unit -IV</b></p>	<p><b>Microsoft Excel</b></p> <ul style="list-style-type: none"> <li>● Working with the Excel interface</li> <li>● Entering data</li> <li>● Creating formulas and functions</li> <li>● Formatting rows, columns, cells, and data</li> <li>● Working with alignment and text wrap</li> <li>● Adjusting rows and columns</li> <li>● Finding and replacing data</li> <li>● Printing and sharing worksheets</li> <li>● Creating charts and Pivot Tables</li> <li>● Inserting and deleting sheets</li> <li>● Using power functions such as IF and VLOOKUP</li> <li>● Password-protecting worksheets and workbooks</li> <li>● Sorting data</li> <li>● Analyzing data with Goal Seek and Solver</li> <li>● Creating and running macros</li> </ul>	<p>15</p>
<p><b>Unit -V</b></p>	<p><b>Power Point Presentation</b></p> <ul style="list-style-type: none"> <li>● Connecting PowerPoint to OneDrive</li> <li>● Creating presentations from themes and templates</li> <li>● Using and editing slide masters</li> </ul>	<p>15</p>

	<ul style="list-style-type: none"> <li>• Changing the layout or theme</li> <li>• Adding pictures and objects</li> <li>• Working with bullet points, text boxes, and tables</li> <li>• Adding shapes, diagrams, and charts</li> <li>• Incorporating video, audio, and animation</li> <li>• Adding speaker notes and comments</li> <li>• Running a slideshow</li> <li>• collaborating on changes and sharing PowerPoint presentations via print, PDF, or a recorded slideshow.</li> </ul>	
<b>Unit-VI</b>	<b>Web Surfing</b> <ul style="list-style-type: none"> <li>• Introduction to Internet, WWW and Web Browsers, Web Browsing software's, Search Engines; Understanding URL; Domain name; IP Address</li> <li>• Basic of Computer networks; LAN, WAN.</li> <li>• Concept of Internet; Applications of Internet, Services on Internet</li> <li>• What is ISP; Knowing the Internet; Basics of internet connectivity related troubleshooting, World Wide Web.</li> <li>• Formats of information available on the internet.</li> </ul>	15

### Learning Outcomes:

- Understanding of formatting techniques and presentation styles, mechanics and uses of Word tables to organize and present data, working knowledge of using Word's themes and clip art to create a variety of visual effects.
- Develop understanding for fluency in Excel interface components, Enter and edit data, Format data and cells, Construct formulas, including the use of built-in functions, and relative and absolute references, Create and modify charts and Preview and print worksheets.
- Identify the names and functions of the PowerPoint interface, add a graphic and manipulate simple slide shows with outlines and notes, create slide presentations that include text, graphics, animation, and transitions, use design layouts and templates, print presentation handouts and create a PowerPoint presentation.
- Understanding the potential of internet, services available, methods of connecting to the internet, and Browsers.

### References:

- Reference Book of M. S. Office 2010 - John Walkenbach, Herb Tyson, Michael R. Groh, Faithe Wempen and Lisa A. Bucki
- Computer Basics Absolute Beginner's Guide, Windows 8 Edition, 6e Paperback – 2013 by Miller (Author)

## Interior Furnishing Materials

**Course Code: B. Voc. /ID/106**

**Course Name: Interior Furnishing Materials**

**Credits: 4**

**Hours: 90**

### Course Brief:

Brief outline and structuring of different kind of Materials involved in Construction Processes along with understanding of finishing their surfaces

### Objective:

- This unit will introduce the Student to learn and have understanding about various types of materials that are used to either construct an Interior Element or for Decoration purposes
- To be able to know what is the right Market for these Materials, Students will be exposed to the Industry Vendors and Suppliers. It is critical that the student is introduced to Building Components for a much better Material Application understanding
- How these material surfaces are finished is crucial in the Design of Interior Spaces?

Units	Course Contents	No. of hours
Unit-I	<b>Flooring Materials &amp; Finishes</b> <ul style="list-style-type: none"><li>• Types of materials used in the construction for Floor - stone, wood, tiles</li><li>• Surface finishes used for Flooring</li><li>• Properties of all the materials mentioned above, their usage and application</li><li>• Market survey of various Brands, Vendors &amp; Suppliers, a comparison in the difference of the pricing they offer</li></ul>	30
Unit-II	<b>Surface finishes used for walls &amp; columns</b> <ul style="list-style-type: none"><li>• Introduction to materials available for walls/ column.</li><li>• Introduction to various finishes- stone clad, wood clad, tiles, Paint, Wallpaper, Exposed</li></ul>	30

	<p>Cement Concrete, Artificial Materials Finish etc</p> <ul style="list-style-type: none"> <li>• Types of - stone clad, wood clad, tiles, Paint, Furnishing, Exposed Cement Concrete, Artificial Materials Finish etc</li> <li>• Market survey of above mentioned materials along with their prices</li> </ul>	
<b>Unit-III</b>	<p><b>Types &amp; Surface finishes for Doors &amp; Windows</b></p> <ul style="list-style-type: none"> <li>• Introduction to all the materials available for the construction of doors &amp; windows - Metal, Stone, Wood, Clay,</li> <li>• Types of window &amp; window finishes</li> <li>• Market survey of above mentioned materials along with their prices</li> </ul>	30
<b>Unit-IV</b>	<p><b>Surface finishes for roof structure &amp; False Ceiling</b></p> <ul style="list-style-type: none"> <li>• Introduction to materials available for construction of Roof structures – Reinforced Cement Concrete, Stone</li> <li>• Introduction to all the materials available for construction of false ceiling – Plaster of Paris, Metal (for framing), Wood, Gypsum Boards, Wallpapers, Stones etc</li> <li>• Industry site visit to understand the working of false ceiling with different materials.</li> <li>• Market survey of above mentioned materials along with their prices</li> </ul>	30
<b>Unit -V</b>	<p><b>Soft and Hard Furnishings</b></p> <ul style="list-style-type: none"> <li>• Upholstery – Sofas, Day Beds, Couches, Stools, Seats, Chairs</li> <li>• Curtains &amp; Blinds – Doors, Windows, Doorways, any other Planer Opening</li> <li>• Wallpapers – Application on walls, Furniture, Ceiling</li> <li>• Home Furnishings – Table &amp; Bed Linen, Cushion Covers, Mats, Runners Etc.</li> </ul>	30

	<ul style="list-style-type: none"> <li>• Market survey of each material mention above.</li> <li>• Hardware Study</li> </ul>	
<b>Unit-VI</b>	<b>Documentation</b> <ul style="list-style-type: none"> <li>• Study on the Site Project, Its Compilation of the Construction work hence visited while the work is being executed</li> <li>• Hand Drafted Sheets compilation</li> <li>□</li> </ul>	30

### Learning Outcome:

- Identify the Visual, Tactile, Aesthetic and Functional properties of Wood, Metals, Stones, Clays and their products
- Interpret Technical Knowhow of various types of Surface finishes available for floor, walls, lintel, sill, doors-windows & roof.
- Identify and get introduced to different surface finishes of the Components of a Building
- Document Market Surveys & Sample Collection process

### Reference:

- Wood – Identification & Use – Terry Porter
- Essential Readings in Light Metals – The Minerals, Metals & Materials Society
- The complete Technology Book on Bricks, Cement and Asbestos – NPCS board of Consultants & Engineers
- Stones in the Sand – The Architecture of Rajasthan – Edited by Giles Henry Rupert Tillotson
- Building Construction Illustrated – Francis D.K Ching
- The Practical Encyclopedia of Soft Furnishing – Dorothy Wood



## Design Project I - Residence

**Course Code: B. Voc. /ID/206**

**Course Name: Design Project I - Residence**

**Credits: 6**

**Hours: 180**

### Course Brief:

The main brief is to prepare students to Residential Interior Design Project Work

### Objective:

This Unit offers Design exercises to students to explore and manipulate organizational pattern for small multi-cellular spaces with defined function, as a response to the architectural form and environmental settings, supported by methods of observation, recording, and interpretation of physical environments; pursuit of design intent through iterative modulation of form and arrangement; complete three-dimensional visualization and testing with three dimensional tools to achieve complete formal resolution.

Units	Contents	No. of Hours
Unit I	<b>Conceptual Development</b> Based on an Assignment Brief, Produce a Concept for a residential Interior Space Design. Identify the requirements to be fulfilled to be able to make the space functionality more efficient and purposeful. Aesthetical appearance is crucial hence the student must identify the surface finishes of materials very critically. Overall, Concept must be developed for the given space	45
Unit II	<b>Selection of Materials and Their Construction Techniques</b> Based on the final Concept, the student must identify right material to make an efficient use of the space. Choosing techniques to construct the materials is critical as the strength of design	45

	depends upon the construction finish. Surface once is ready must be finished with student's discretion based on the concept	
<b>Unit III</b>	<p><b>Producing Hand &amp; AutoCAD Drawings</b></p> <p>Based on the Assignment, the students will be required to produce Hand drafted Drawings and AutoCAD Drawings showing the Perspective Views, Orthographic &amp; Isometric Projections on the required Scale with Formats to support the Design</p>	45
<b>Unit IV</b>	<p><b>Documentation &amp; Presentation</b></p> <p>While the designs are being prepared, the students are required to start the Documentation process that will include the Studio Work, Drawings, Views and the Concept. Explanation is crucial within the Document henceforth presenting the same to the Jury/ Classroom</p>	45

### Learning outcomes:

- Concept Development for a Residential Interior Project based on the Assignment Brief
- Identify Requirements for the Design
- Selection of right Material to be able to fulfill the requirement
- Identify the Construction Techniques with the selected materials along with the Surface finishes
- Produce Hand Drawings & AutoCAD Drawings as required based on the Brief
- Draw Conclusions of Final Design through Documentation

### Reference:

- Interior Design reference and specification Book – Everything Interior Designers need to know every day – Mimi Love, Chris Grimley
- Habitat – the field guide to decorating – Lauren Liess
- Technical Documentation and Process – Jerry C. Whitaker, Robert K. Mancini
- Research and Documentation in Digital Age – Barbara Fister, Diana Hacker
- The color scheme Bible – Inspirational Palettes for the Interior Designer – Anna Starmer