

COMMUNICATION SKILLS IN ENGLISH

CODE ID 121

BC121/CA 121/CD 121// TD 121

L	T	P
1	-	2

RATIONALE

The students seeking admission to the diploma courses do not have the required proficiency in English. It has, therefore, been decided to introduce English and Communication Techniques to help them attain proficiency in the subject.

CONTENTS

	L
1. Narration, Voice, Basic Sentence Patterns. (Nine basic sentence patterns)	5
2. Transformation of Sentences, Determiners, Preposition. (a) Interchange of degree of comparison (b) Interchange of Affirmative and negative sentences (c) Interchange of Interrogative and Assertive sentences (d) Interchange of Exclamatory and Assertive sentences	7
3. Tenses, Common errors (Noun, Pronoun, Articles, Adverb, Punctuation, Preposition etc.)	7
4. Modals in Conversational Usage and punctuation: Modals: Can, Could, Should, Will, Would, May, Might, Must, Need not, Dare not, ought to, Used to. Punctuation: Full stop, Comma, Question mark, Exclamation mark, Inverted Commas, Capital letters	4
5. Composition - 1. Unseen Passage, Précis Writing	2
6. Letter Writing, and Report Writing	3
7. Essay Writing - Essays on general topics and topics related to environmental problems.	2

PRACTICALS

We envisage two successive stages for attaining skill in communication ability;

1. Listening
2. Speaking

We can club them together as shown above.

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1. Listening:	6
1.1 For improving listening skills the following steps are recommended,	
1.1.1 Listen to Prerecorded Tapes	
1.1.2 Reproduce Vocally what has been heard	

- 1.1.3 Reproduce in Written form
 1.1.4 Summarise the text heard
 1.1.5 Suggest Substitution of Words and Sentences
 1.1.6 Answer Questions related to the taped text
 1.1.7 Summarise in Writing
- 2. Speaking: 6**
 2.1 Introducing English consonant-sounds and vowel-sounds.
 2.1.1 Remedial exercises where necessary
 2.2 Knowing Word stress
 Shifting word stress in poly-syllabic words
 [For pronunciation practice read aloud a para or page regularly while others monitor]
- 3. Vocabulary: 10**
 3.1 Synonyms. Homonyms. Antonyms and Homophones
 3.2 Words often confused, as for example,
 [I-me; your-yours; its-it's; comprehensible-comprehensive; complement-compliment]
 3.3 Context-based meanings of the words, for example,
 3.3.1 man[N] man[vb]; step[[N] ,step[vb]
 3.3.2 conflict _____ Israel Palestinian conflict
 Emotional conflict,
 Ideas conflict
 3.3.3 learn _____ I learn at this school
 I learnt from the morning news
- 4. Delivering Short Discourses: 15**
 4.1. About oneself
 4.2 Describing a Place, Person, Object
 4.3 Describing a Picture, Photo.
- 5. Group Discussion : 15**
 5.1 Developing skill to initiate a discussion [How to open]
 5.2 Snatching initiative from others [Watch for weak points, etc.]
- 6. Expand a topic-sentence into 4-5 sentence narrative. 8**

Note:

1. The Medium of teaching and examination will be English.
2. The Question on Essay Writing (Unit-7) will be compulsory.
 The student will have to attempt one essay out of two, touching upon given points .
3. At least on question will be set from each unit.
4. No theory question will be set from syllabus of practicals.

REFERENCE BOOKS:

- | | |
|---|--|
| 1. Intermediate English Grammar | Raymond Murphy,
Pub: Foundation Books,
New Delhi |
| 2. Eng. Grammar, usage & Composition | Tickoo & Subramanian
Pub: S.Chand and Co. |
| 3. A Practical Eng. Grammar
(and its Exercise Books) | Thomson and Martinet.
Pub : ELBS |
| 4. High School English Grammar
and Composition | Wren & Martin. |

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COMPUTER APPLICATIONS

BC122/CA 122/CD 122/ ID 122/ TD 122

L T P
2 -- 3

RATIONALE

Use of Computer is increasing for precise and speedy work so it is useful to provide computer knowledge to the students. The course content is designed to give an overview and understand working of computer components and Operating System. The course provides knowledge of internet, email, web browsing and E-commerce. The course also focuses on basic application Software MS-Office.

The student will be able to appreciate the role of Computer Technology, more specifically computer hardware, software and its application in the present social and economic scenario.

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1. Introduction

6

1.1 Characteristics of Computers

1.2 Application of Computer

1.3 Component of Computer

1.3.1 Block Diagram of Computer

1.3.2 ALU and CU

1.3.3 Input Device: Keyboard, Mouse, Joystick, Scanner, Optical Mark Reader, Bar-code Reader, Magnetic Ink Character Reader, Web Camera

1.3.4 Output Device: Monitor, Impact printer –Dot Matrix and Drum, Non Impact Printer: Laser and Inkjet Plotter

1.3.5 Memory Organization, Primary Memory, Secondary Memory

1.4 Languages and Translators

1.4.1 Low Level and High Level Language

1.4.2 Compiler and Interpreter

2. Operating System

6

2.1 Concept of Operating System

2.2 Functions of Operating System

2.3 Relationship between Hardware and Software

2.4 Software

2.4.1 System Software

2.4.2 Application Software

2.5 Creating Folder and Shortcut

2.6 System Tool: Disk cleanup, Disk Fragmentation, System Restore

2.7 Control Panel: Adding new hardware and software, Display, Adding new font, User account management

2.8 Accessories: Calculator, Notepad, Paint, WordPad, Snipping Tool

3. Computer Network	6
3.1 Need of networks	
3.2 Data Transmission Media: Twisted pair, Coaxial, Optical Fiber, Satellite transmission	
3.3 Types of Network-LAN, WAN, MAN	
3.4 Topologies of LAN - Ring, Bus, Star, Mesh and Tree	
3.5 Digital and Analog Transmission	
3.6 Serial and Parallel data transfer	
3.7 Modem - Working and characteristics	
4. Internet	8
4.1 Introduction to Internet and Intranet	
4.2 Internet Service Provider.	
4.3 URL and DNS	
4.4 Web Browser and its functions, Web Page, Search Engines	
4.5 Protocol: Basic of http, https, FTP, SMTP, POP	
4.6 Basic of E-mail:	
4.6.1 E-mail Service Provider	
4.6.2 Composing E-mail	
4.6.3 Mailing List	
4.6.4 Creating Label	
4.6.5 Signature	
4.6.6 Spam	
5. Word Processing	8
5.1 Introduction to MS Word	
5.2 Opening, saving in different format and Printing Document.	
5.3 Copy, Paste, Find and Replace, Go to, Redo Undo, Change Case, Spell Check	
5.4 Creating and Formatting Tables	
5.5 Inserting Clipart, Hyperlink, Symbol	
5.6 Character and Paragraph Formatting	
5.7 Page Formatting: Header Footer, Page break, Watermark	
5.8 Mail merge	
6. Power Point Presentation	7
6.1 Introduction to Power Point	
6.2 Creating, Opening, Saving presentations and Printing: Slides ,Handout	
6.3 Slide Layout, Presentation Views	
6.4 Insert Sound, Smart Art, Chart	
6.5 Design Presentation using Animation and Custom Animation	

6.6 Running and Controlling a Slide Show

7. Spreadsheet 12

- 7.1 Introduction to Spreadsheet
- 7.2 Creating, Saving and Editing a Workbook.
- 7.3 Inserting, Deleting Work Sheets and Printing worksheet
- 7.4 Copying and Moving data from selected cells
- 7.5 Formatting cells: changing data alignment, different number formats, changing font, adding borders and colors
- 7.6 Sorting and Filtering
- 7.7 Working with Formulas: Mathematical, Logical, Text
- 7.8 Charts and Graphs

8. E-Commerce and Security 7

- 8.1 Introduction to E-Commerce
- 8.2 Type of E-Commerce
- 8.3 Advantage and Disadvantage of E-Commerce
- 8.4 Payment Gateway
- 8.5 Definition of Virus, Malware, Trojan Horse
- 8.6 Scanning & Removing Virus using Antivirus Program

PRACTICALS

- 1. Study of Computer Components. 3
- 2. Practice of using My Computer, creating, deleting folders and shortcuts. 3
- 3. Practice on Paint, WordPad, Notepad, Calculator and Snipping tool. 3
- 4. Practice on System Tools-Disk Cleanup, Disk Fragmenter, System Restore. 3
- 5. Practice on Control Panel. 3
- 6. Study of different types of Networks and Network Topologies. 3
- 7. Visit to different Internet Sites. 3
- 8. Content Searching using Search Engines. 3
- 9. Creating E-mail accounts, Composing and Sending E-mail. 3
- 10. Sending E-mail with attachments and signature. 3
- 11. Exercise on MS-WORD: 21
 - 11.1 Starting MS-Word, Creating, Saving and Opening documents
 - 11.2 Editing Documents-Cut, Copy, Paste, Undo, Redo, Copying one document to other, Change Case, Go to
 - 11.3 Character and Paragraph Formatting, Numbering and Bullets
 - 11.4 Page Formatting, Header and Footer, Page Break, Watermark
 - 11.5 Spell Check, Find and Replace, Inserting Pictures and Clip-arts

11.6	Print Preview and Printing documents	
11.7	Working with Tables	
11.8	Creating Hyperlink	
11.9	Saving documents in different formats- PDF, XPS, Web page	
11.10	Mail-Merge.	
12.	Exercise on MS-PowerPoint:	15
12.1	Starting MS-PowerPoint, Creating, Saving and Opening presentations	.
12.2	Adding animation in slides	
12.3	Running a Slide Show	
12.4	Printing Slides and Handouts	
12.5	Designing Custom animation	
13.	Exercise on MS-EXCEL:	21
13.1	Starting MS-Excel, Creating, Saving and Opening worksheet.	
13.2	Editing Worksheet.	
13.3	Formatting Cells- Font, Number Formats Alignment and Borders.	
13.4	Implementing Mathematical, Logical and Text Formulas.	
13.5	Charts and Graphs.	
13.6	Sorting and Filtering.	
13.7	Printing Workbooks.	
14.	Study of E-Commerce and Payment Gateways.	3
REFERENCE BOOKS :		
1	Computer Fundamentals	P.K. Sinha and P. Sinha, BPB publication.
2.	Microsoft office for 2016	Amy Kinser Pearson education.
3.	Data Communications and Networking	Forouzan TMH

THEORY OF MATERIALS

CODE ID 123

L T P
2 - 1

RATIONALE

This is very important subject and also the foundation of interior decoration. The student will have ideas about the different aspects of decoration in floor coverings, colours, materials used in decoration, lighting, curtains, furnishings etc.

CONTENTS

	L	P
1. Floor Covering :	25	8
1.1. Carpets		
1.1.1 Hand Made Carpets		
1.1.2 Hand Tufted Carpets		
1.1.3 Machine Made Carpets		
1.1.3.1 Cutpile		
1.1.3.2 Uncutpile		
1.2. Types of Carpets :		
1.2.1 Solid Plain Shades		
1.2.2 Mottled Design		
1.2.3 Stripped Design		
1.2.4 Jasped Design		
1.2.5 Geometrical Design		
1.2.6 Oriental (Floral) Design		
1.2.7 Embossed Design		
1.2.8 Printed Design		
1.3. Wall to Wall Carpets		
1.4. Other Floor Coverings :		
1.4.1. Durries :		
1.4.1.1 Cotton Carpets (Durries)		
1.4.1.2 Woolen Durries		
1.4.1.4 Durries of Blended Fiber.		
1.4.2 Coir & Jute Matting Chattai		
1.4.3 Shaggy Floor Covering.		
2. Windows - Types of windows & their treatments.	4	2
3. Curtains and Curtains Materials :	7	4
3.1 Types of Curtains :		
3.1.1 Plain		
3.1.2 French		
3.1.3 Pleated		
3.2 Lining Materials.		
3.3 Curtain Materials		
3.4 Curtain Hard wares :		
3.4.1 Rods		
3.4.2 Rings		
3.4.3 Railings		
3.4.4 Hooks		
3.5 Curtain Accessories :		
3.5.1 Swags		
3.5.2 Valances		

3.5.3	Tails		
3.5.4	Tapes		
3.5.5	Ropes		
3.6	Types of Blinds :		
3.6.1	Austrain		
3.6.2	Festoon		
3.6.3	Roller		
3.6.4	Roman		
4.	Upholstery Covering Material and Other Items :	4	2
4.1	Types of Upholstery Materials :		
4.1.1	Cotton		
4.1.2	Silk		
4.1.3	Woolen		
4.1.4	Synthetic		
4.1.5	Rexine		
4.1.6	Leather		
4.2.	Cushioning Materials :		
4.2.1	Springs		
4.2.2	Jute		
4.2.3	Cotton		
4.2.4	Foam		
4.2.5	Rubber		
5.	Other Furnishings :	2	2
5.1	Cushion Covers		
6.	Accessories :	6	4
6.1	Placement of Accessories		
6.2	Types of Accessories :		
6.2.1	Statues		
6.2.2	Paintings		
6.2.3	Lamps		
6.2.4	Book Shelves		
6.2.5	Mirrors		
6.2.6	Fish		
6.2.7	Birds		
6.2.8	Framing Pictures		
6.3	Table Accessories :		
6.3.1	Ashtray		
6.3.2	Plants		
6.3.3	Vases		
6.4	Latest Items of Furnishings & Visits to Shops.		
7.	Light Fittings :	8	6
7.1	A broad Classification of Categories in Home Lighting:		
7.1.1	Direct		
7.1.2	Indirect		
7.1.3	Semi-Direct		
7.1.4	Concealed.		
7.2	Lighting in Different Units in House :		

- 7.2.1 Garden & Gate Lights
- 7.2.2 Exterior & Porch Lights
- 7.2.3 Drawing Room Lights
- 7.2.4 Dinning Room Lights
- 7.2.5 Bed Room Lights
- 7.2.6 Toilet Lights
- 7.2.7 Kitchen & Pantry Lights
- 7.2.8 Lobbies & Corridor Lights
- 7.2.9 Verandah & Entrance Lights
- 7.2.10 Stairs & Terrace Lights
- 7.2.11 Different kinds of Light Fixtures for Various Places in a House
- 7.2.12 LED lights and CFL lights

8. Visit to Factories/Show Rooms

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Preparation of file (Collection of Different Types of Materials)

REFERENCE BOOKS :

- | | |
|----------------------------|------------------------------|
| 1. Soft Furnishings | Sarah Cambell & Hillary More |
| 2. American Rugs & Carpets | Hellen Von Resentiel |
| 3. Oriental Rugs | Erich Aschenbrenner |
| 4. Residential Lighting | Randall Whitehead |
| 5. Interior Design | Ahmed A. Kasu |

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VISUAL ARTS - I**CODE ID 124****L T P**
2 - 3**RATIONALE**

This part of syllabus will be useful to students to develop a perception of space through interior elements, and understand the relation between them. It should help students to be able to understand and follow the process of design and visual concepts. This will help students to appreciate grammar of visual design and application in Interior Design. The idea is to study and analyse planar forms and an understanding of generation of a form from an abstract idea.

CONTENTS

	L	P
1. INTRODUCTION TO THE ELEMENTS OF DESIGN :	12	15
1.1. POINT		
1.2. LINE		
1.2.1 Types of line		
1.2.2 Symbolism of lines		
1.3. SHAPES		
1.3.1 Types of shapes		
1.4. FORM		
Study of Paper Forms- Making different paper folded forms which can be used as light fixtures/furniture/decorative article in interior spaces.		
2. INTRODUCTION TO THE PRINCIPLES OF DESIGN :	15	
2.1. Symmetry & Asymmetry		
2.2. Balance		
2.3. Harmony		
2.4. Unity and variety		
2.5. Rhythm		
2.6. Emphasis		
3. COLOUR :	09	
3.1 Definition of Colour		
3.2 Qualities of Colour		
3.3 Colour Systems		
3.4 Factors affecting a Hue		
3.5 Colour wheels – Primary, Secondary and Tertiary colours		
4. ANTHROPOMETRY AND HUMAN SCALE :	24	52
4.1 Dimensions of Adult and Children		
4.2 Study of human Anthropometry for Residential spaces (Living Areas,Dining Areas,Bedrooms,Kitchens,Bathrooms,Closets)		
4.3 Study of human Anthropometry for Conference Rooms/Seminar Halls		
4.4 Study of human Anthropometry for Retail shops		

REFERENCE BOOKS :

- | | |
|-------------------------|--------------|
| 1. Time Saver Standards | -- |
| 2. Interior Design | Ahmed A Kasu |
| 3. Elements of Design | F.G.Broomer |

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INTERIOR MATERIAL AND CONSTRUCTION - I

CODE ID 125

L	T	P
1	--	4

RATIONALE

This course is offered in the first year in order to familiarize students with the innovations in building materials and technology. It provides an introduction to variety of materials available in the market, used for execution in Interior Design practice.

CONTENTS

1.	Basic Building Structure :	L 03
1.1.	Components of a building from foundation to coping level.	
2.	Stones and Bricks :	06
2.1	Various Types of Stones :	
2.1	Granite	
2.2	Basalt	
2.3	Lime Stone	
2.4	Marble	
2.5	Sand Stone	
2.6	Quartzite	
2.7	Laterite	
2.8	Slate	
2.9	Artificial Stones - their Properties and uses in Interior design	
2.2	Various Types of Bricks and Qualites of I & II Class Bricks & their uses in Interior spaces :	
2.2.1	Fire Bricks	
2.2.2	Sandlime Bricks	
2.2.3	Hollow Clay Bricks	
2.2.4	Surkhi & Terracota-their Properties & uses Standard Sizes of Brick	
2.2.5	Fly Ash, concrete bricks	
3.	Brick Masonry	06
3.1	Definition of technical terms	
3.2	Types of Bonds	
3.2.1	Header Bonds	
3.2.2	Stretcher Bonds	
3.2.3	English Bonds	
3.2.4	Garden Wall Bonds	
3.2.6	Herring Bone Bonds	
3.2.7	Diagonal Bonds.	
4.	Stone Masonry	06
4.1	Types of Stone Masonry	
4.1	Rubble Masonry	
4.2	Ashlar Masonry	
5.	Openings :	03
5.1	Arches	
5.1.1	Technical Terms used in Arch Work.	
5.1.2	Types of Arches	

- 5.1.2.1 One Centered
- 5.1.2.2 Two Centered
- 5.1.2.3 Three Centered
- 5.1.2.4 Four Centered.

6. Doors and windows : **03**

- 6.1 Definition of technical terms
- 6.2 Introduction to types of door and window frames/trims
- 6.2 Panelled door and Window
- 6.3 Panelled and partly glazed door and window

7. Flooring : **03**

- 7.1 Types of Flooring -
 - 7.1.1 Inner Flooring
 - 7.1.2 Parkway Flooring.

PRACTICALS

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- 1. Building Wall Section from Foundation Level to coping level. 40
- 2. Brick Masonry
Preparation of Drawing for Different Bonds for Walls up to 2 Brick thick 40
- 3. Stone Masonry 20
 - 3.1 Rubble Masonry
 - 3.2 Ashlar Masonry
- 4. Openings : 20
 - 4.1 Arches
 - 4.1.1 Types of Arches
 - 4.1.1.1 One Centered
 - 4.1.1.2 Two Centered
 - 4.1.1.3 Three Centered
 - 4.1.1.4 Four Centered.
- 5. Flooring : 21
 - 4.1 Types of Flooring
 - 4.1.1 Inner Flooring
 - 4.1.2 Parkway Flooring.
- 6. **Doors and windows** **18**
 - 5.1 Panelled door and Window
 - 5.2 Partly Panelled and partly glazed door and window

REFERENCE BOOKS :

- | | |
|--------------------------|----------------------|
| 1. Building Construction | W.B.Mckay |
| 2. Building Construction | A.Michelle |
| 3. Building Construction | G. C. Singh |
| 4. Building Construction | Sushil Kumar & Gupta |
| 5. Building Materials | Ranagawala |

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BASIC DESIGN - I**CODE ID 126**

L	T	P
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RATIONALE

This is a practical subject which will help the students to measure the drawing & the case-study of residential house & offices. They will learn presentation techniques, composition, space planning, circulation, utilization of space & other important factors which help in the decoration of a house or office.

PRACTICALS

	P
1. Measured Drawings :	16
1.1 Importance of Measurement	
1.2 Procedure of Measurement	
1.3 Requirement of a Drawing Sheet	
1.4 Types of Drawing	
1.5 Drawing Presentation	
2. Measured drawing & Case-Study :	48
2.1. Existing Interior Spaces Like :	
2.1.1 Plan, Sectional elevation of Kitchen	
2.1.2 Plan, Sectional elevation of Bedroom	
2.1.3 Plan, Sectional elevation of Drawing Room	
2.1.4 Plan, Sectional elevation of Toilets	
3. Designing & planning :	66
3.1. Plan & Elevation of a Single Room Residence	
4. Presentation Techniques :	48
4.1. Model Making :	
4.1.1 Simple Geometric Forms Like Cube (Two Exercise)	
4.1.2 Simple Geometric Forms Like Prism (Two Exercise)	
4.1.3. Simple Geometric Forms Like Pyramids (Two Exercise)	
4.1.4. Simple Geometric Forms Like Cylinder (Two Exercise)	
4.1.5. Simple Geometric Forms like Cone (Two Exercise)	

Note : The Essential theory should be taught during the practicals.

REFERENCE BOOKS :

1. Interior Design Ahmed A Kasu

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ARCHITECTURAL DRAWING

CODE ID 127

L T P
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RATIONALE

This being the basic part and fundamental of the various procedure of engineering drawings . It enables students to understand solid geometry through graphic exercises of increased complexity. It deals with the details of drawings with regard to lettering ,Geometry projections views at the different angle detailed views of objects.

PRACTICALS

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|----|--|-----------|
| 1. | Scales : Introduction to Scales | 6 |
| 2. | Solid Geometry : Orthographic Projections – Projection of Solids : Cube, Prism, Cylinder, Cone, Pyramid, Frustum of Cone & Pyramid section by simple horizontal & vertical planes . | 93 |
| 3. | Isometric & Axonometric View :
Isometric Projection, making Isometric Views & Axonometric Views of furniture- Table, Chair(with arms and without arms),Bed. | 81 |

Note : The Essential theory should be taught during the practicals.

REFERENCE BOOKS

- | | |
|-------------------------------|-------------|
| 1. Engineering Drawing | N. D. Bhatt |
| 2. Engineering Drawing(Hindi) | B.C.Gupta |

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ART & GRAPHICS**CODE ID 128****L T P**
-- -- 3**RATIONAL**

Sketching is the fundamental of all art & expression. This subject aims to impart basic knowledge of graphic standard drawings of plane and solid geometry.

PRACTICALS

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1. Free Hand Sketching of Still Life Images :	27
1.1 Free Hand Sketching of objects (Pencil and charcoal):	
1.1.1 Trees	
1.1.2 Building - Modern & Historical	
1.1.3 Cars	
1.1.4 Furniture.	
1.1.5 Details of different types of customized Jali Works for all types of interior spaces.	
1.2 Sketchbook to be maintained in the Session of at least three Sketches per weeks.	
2. Colour :	27
2.1 Trees	
2.2 Buildings	
2.3 Cars	
2.4 Furniture	
Sketchbook to be maintained in the Session of at least three sketches per weeks in crayons and water colours.	
3. Basics of Compositions :	
Five Exercise of Two Dimensional Compositions customized for Interior space for example wall papers, stencil paints etc.	09
4. Introduction to graphic standards :	18
5.1 Introduction to one point perspective – simple exercises of free hand solids	
5.2 Rendering techniques in Interior materials and finishes	

Note : The Essential theory should be taught during the practicals.

REFERENCE BOOKS :

- | | |
|--|---------------------|
| 1. Rendering in Pen & Ink | De Chiara Callender |
| 2. Architectural Sketching and Rendering | Stephen Kliment |

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