



**BSC (Interior Design)**

**(Semester)**

**Session-2023-24**

**VRINDAWAN UNIVERSITY**

**SYLLABUS FOR**

<b>YEAR-I</b>					
<b>SEMESTER-I</b>					
<b>CODE.NO</b>	<b>PAPERS</b>	<b>Credits</b>	<b>EXTERNAL MARKS</b>	<b>INTERNAL MARKS</b>	<b>TOTAL MARKS</b>
BSCID 101	<b>Communication Skills</b>	<b>4</b>	<b>70</b>	<b>30</b>	<b>100</b>
BSCID 102	<b>Fundamentals Of IT</b>	<b>4</b>	<b>70</b>	<b>30</b>	<b>100</b>
BSCID 103	<b>Basic Of Drawing And Graphics-I</b>	<b>4</b>	<b>70</b>	<b>30</b>	<b>100</b>
BSCID 104	<b>Foundation Of Design</b>	<b>4</b>	<b>70</b>	<b>30</b>	<b>100</b>
BSCID 105-P	<b>Introduction To Computers (Practical)</b>	<b>2</b>	<b>70</b>	<b>30</b>	<b>100</b>
BSCID 106-P	<b>Basic Of Drawing And Graphics – I (Practical)</b>	<b>3</b>	<b>70</b>	<b>30</b>	<b>100</b>
BSCID 107-P	<b>Foundation Of Design -I ( Practical)</b>	<b>3</b>	<b>70</b>	<b>30</b>	<b>100</b>
<b>TOTAL</b>		<b>24</b>	<b>490</b>	<b>210</b>	<b>700</b>
<b>YEAR-I</b>					
<b>SEMESTER-II</b>					
<b>CODE.NO</b>	<b>PAPERS</b>	<b>Credits</b>	<b>EXTERNAL MARKS</b>	<b>INTERNAL MARKS</b>	<b>TOTAL MARKS</b>
BSCID 201	<b>Element of materials- I</b>	<b>4</b>	<b>70</b>	<b>30</b>	<b>100</b>
BSCID 202	<b>Basic of Drawing and Graphics-II</b>	<b>4</b>	<b>70</b>	<b>30</b>	<b>100</b>
BSCID 203	<b>Design-I</b>	<b>4</b>	<b>70</b>	<b>30</b>	<b>100</b>
BSCID 204	<b>Foundation of design –II</b>	<b>4</b>	<b>70</b>	<b>30</b>	<b>100</b>
BSCID 205-P	<b>Basic of Drawing and Graphics – II (Practical)</b>	<b>3</b>	<b>70</b>	<b>30</b>	<b>100</b>
BSCID 206-P	<b>Foundation of Design-II (Practical)</b>	<b>3</b>	<b>70</b>	<b>30</b>	<b>100</b>
<b>TOTAL</b>		<b>22</b>	<b>420</b>	<b>180</b>	<b>600</b>

**YEAR-II****SEMESTER-III**

<b>CODE.NO</b>	<b>PAPERS</b>	<b>Credits</b>	<b>EXTERNAL MARKS</b>	<b>INTERNAL MARKS</b>	<b>TOTAL MARKS</b>
BSCID 301	<b>Element Of Materials –II</b>	<b>4</b>	<b>70</b>	<b>30</b>	<b>100</b>
BSCID 302	<b>Design –II</b>	<b>4</b>	<b>70</b>	<b>30</b>	<b>100</b>
BSCID 303	<b>History Of Interior –I</b>	<b>4</b>	<b>70</b>	<b>30</b>	<b>100</b>
BSCID 304	<b>Building Construction –I</b>	<b>4</b>	<b>70</b>	<b>30</b>	<b>100</b>
BSCID 305	<b>Role Of Interior Design-I</b>	<b>4</b>	<b>70</b>	<b>30</b>	<b>100</b>
BSCID 306-P	<b>Computer Application-I (Practical)</b>	<b>3</b>	<b>70</b>	<b>30</b>	<b>100</b>
<b>TOTAL</b>		<b>23</b>	<b>420</b>	<b>180</b>	<b>600</b>

**YEAR-II****SEMESTER-IV**

<b>CODE.NO</b>	<b>PAPERS</b>	<b>Credits</b>	<b>EXTERNAL MARKS</b>	<b>INTERNAL MARKS</b>	<b>TOTAL MARKS</b>
BSCID 401	<b>Elements Of Services</b>	<b>4</b>	<b>70</b>	<b>30</b>	<b>100</b>
BSCID 402	<b>Role Of Interior Design-II</b>	<b>4</b>	<b>70</b>	<b>30</b>	<b>100</b>
BSCID 403	<b>History Of Interior –II</b>	<b>4</b>	<b>70</b>	<b>30</b>	<b>100</b>
BSCID 404	<b>Building Construction –II</b>	<b>4</b>	<b>70</b>	<b>30</b>	<b>100</b>
BSCID 405	<b>Element Of Materials –III</b>	<b>4</b>	<b>70</b>	<b>30</b>	<b>100</b>
BSCID 406	<b>Design-III</b>	<b>4</b>	<b>70</b>	<b>30</b>	<b>100</b>
BSCID 407-P	<b>Computer Application- II (Practical)</b>	<b>3</b>	<b>70</b>	<b>30</b>	<b>100</b>
<b>TOTAL</b>		<b>27</b>	<b>490</b>	<b>210</b>	<b>700</b>

<b>YEAR-III</b>					
<b>SEMESTER-V</b>					
<b>CODE.NO</b>	<b>PAPERS</b>	<b>Credits</b>	<b>EXTERNAL MARKS</b>	<b>INTERNAL MARKS</b>	<b>TOTAL MARKS</b>
BSCID 501	<b>Professional practice</b>	<b>4</b>	<b>70</b>	<b>30</b>	<b>100</b>
BSCID 502	<b>Estimating and costing</b>	<b>4</b>	<b>70</b>	<b>30</b>	<b>100</b>
BSCID 503	<b>Principles of Marketing Management</b>	<b>4</b>	<b>70</b>	<b>30</b>	<b>100</b>
BSCID 504	<b>Design-IV</b>	<b>4</b>	<b>70</b>	<b>30</b>	<b>100</b>
BSCID 505	<b>Environmental Science</b>	<b>3</b>	<b>70</b>	<b>30</b>	<b>100</b>
BSCID 506-P	<b>Computer Application-III (Practical)</b>	<b>3</b>	<b>70</b>	<b>30</b>	<b>100</b>
	<b>TOTAL</b>	<b>22</b>	<b>420</b>	<b>180</b>	<b>600</b>
<b>YEAR-III</b>					
<b>SEMESTER-VI</b>					
<b>CODE.NO</b>	<b>PAPERS</b>	<b>Credits</b>	<b>EXTERNAL MARKS</b>	<b>INTERNAL MARKS</b>	<b>TOTAL MARKS</b>
BSCID 601	<b>Internship, Thesis &amp; Viva Voce</b>	<b>15</b>	<b>400</b>	<b>100</b>	<b>500</b>
	<b>TOTAL</b>	<b>15</b>	<b>400</b>	<b>100</b>	<b>500</b>

# **SEMESTER I**

# **BSCID 101**

## **Communication Skills**

### **UNIT - 1**

Fundamental of Grammar and their Usage: How to Improve Command over Spoken and Written English with Stress on Noun, Verb, Tense and Adjective. Sentence Errors, Punctuation, Vocabulary Building to Encourage the Individual to Communicate Effectively, Common Errors in Business Writing.

### **UNIT - II**

Introduction to Business Communication: Basic Forms of Communication, Process of Communication, Principles of Effective Business Communication, 7Cs; Media of Communication.

### **UNIT -III**

Business letter writing: Need, Functions and Kinds, Layout of Letter Writing, Types of Letter Writing: Persuasive Letters, Request Letters, Sales Letters, Complaints and Adjustments; Departmental Communication: Meaning, Need and Types: Interview Letters, Promotion. Letters, Resignation Letters, News Letters, Circulars, Agenda, Notice, Office Memorandums, Office Orders, Press Release.

### **UNIT -IV**

Business Etiquettes and Public Speaking: Business Manners. Body Language Gestures, Email and Net Etiquettes, Etiquette of the Written Word, Etiquettes on the Telephone, Handling Business Meetings;

### **Reference Books**

1. Boove, C.L., Thill, J.V., and Chaturvedi, M., (2009) Business Communication Today, Pearson Education.
2. Murphy and Hildebrandt, (2008) Effective Business Communication, McGraw Hill Education.
3. Krizan, A. C. Buddy, and Merrier, Patricia (2008) Effective Business Communication, 7<sup>th</sup> Edition, Cengage Learning.
4. Lesikar, (2009), Business Communication: Making Connections in a Digital World, McGraw Hill Education.
5. McGraw, S. J., (2008) Basic Managerial Skills for All, 8<sup>th</sup> edition, Prentice Hall of India.
6. Wren & Martin, (2008), English Grammar and Composition, Sultan chand & Sons.

## **BSCID 102**

# **Fundamentals of IT**

### **UNIT – I**

#### **Introduction to Computers:**

The evolution of computers - Computer Generation from First Generation to Fifth Generation, Classifications of Computers - Micro, Mini, Mainframe and Super Computers, Distributed Computer System, Parallel Computers.

Computer Hardware – Major Components of a Digital Computer, Block Diagram of Computer, Input-Output devices, Description of Computer Input Units, Output Units, CPU

Computer Memory - Memory Cell, Memory Organization, Read Only Memory, Serial Access Memory, Physical Devices Used to construct Memories, Magnetic Hard disk, floppy Disk Drives, Compact Disk Read Only Memory, Magnetic Tape Drives.

### **UNIT – II**

#### **Number System:**

Decimal, Binary, Octal, Hexa-decimal. Conversion - Decimal to all other number systems, Binary to octal and Hexa Decimal, Addition of binary numbers, Binary subtraction, Use of complements to represent negative numbers, Conversion of a binary fraction to a decimal fraction and decimal to binary fraction, Binary Coded Decimal(BCD), ASCII Codes, EBCDIC codes, Gray codes, Unicodes.

#### **Algorithm and Flowcharts:**

Algorithm: Definition, Characteristics, Advantages and disadvantages, Examples

Flowchart: Definition, Define symbols of flowchart, Advantages and disadvantages, Examples

### **UNIT – III**

#### **Computer Software:**

System software, assemblers, compilers, interpreters, linkers Elementary , Operating System concepts, different types of operating systems, Application Software.

Introduction to MS Office (MS-Word, MS PowerPoint, MS-Excel)

Computer Programming and Languages: Algorithms, flow chart, decision tables, pseudo code, Low level languages and introduction to high level languages.

### **UNIT – IV**

#### **Data Communication and Computer Networks:**

Data Transmission mode, Data transmission media, Digital and Analog Transmission

What is computer Network? Network types, Network Topologies, Communication Protocol, OSI Model

### **UNIT - V**

#### **The Internet:**

Definition, Brief History, Network Types (LAN, WAN and MAN), Client and Servers, Intranet, Extranet. Basic Services, Email, File Transfer Protocol, Telnet, Usenet News, Terminologies related to Internet: Protocol, Domain name, IP address, URL, World Wide Web.

Overview of various services on Internet: E-mail, FTP, Telnet, Chat, Instant Messaging

Internet Search Tools: Gopher, Archie, World Wide Web.

WWW Browsers: Line Browsers, Graphical Browsers, Java Enabled Browsers.

Uses of the Internet: Internet Service Providers and Types of Internet Connection: Direct/Leased line Connection, Remote Dial up Connection, SLIP/PPP Connection

**Text Books:**

1. Alex Leon & Mathews Leon, "Fundamentals of Information Technology", LeonTechworld, 1999.
2. Vikas Gupta, "Comdex Computer Kit", Wiley Dreamtech, Delhi, 2004
3. P. K. Sinha & Priti Sinha , "Computer Fundamentals", BPB Publications, 1992.

**Reference Books:**

1. V. Raja Raman, "Introduction to Computers", PHI, 1998.
2. Alex Leon & Mathews Leon, "Introduction to Computers", Vikas Publishing House, 1999.
3. Norton Peter, "Introduction to computers", 4<sup>th</sup> Ed., TMH, 2001.



## **BSCID 103**

### **Basics of Drawing and Graphics- I**

#### **UNIT I**

Introduction, Drawing material / tools equipment, point, line, shape, form

#### **UNIT II**

Orthographic projection (Plan and elevation)

#### **UNIT III**

Development of surface , Reducing & enlargement of scale, Codes & symbols , font, lettering

#### **UNIT -IV**

Study of anthropometrics data, Space facilitation, optical Illusion, furniture sketching and designing of a room.

#### **Reference Books:**

1. Stephen Kliment, Architectural Sketching and Rendering: Techniques for Designers and Artists, Watson Guptill, 1984.
2. Ivo.D. Drpic, Sketching and Rendering of Interior Space, Watson- Guptill, 1988.
3. Maureen Mitton, Interior Design Visual Presentation: A Guide to graphics, models and presentation techniques, 3rd edition, wiley publishers, 2007
4. Mogali Delgade Yanes and Ernest Redondo Dominquez, Freehand drawing for Architects and Interior Designers, ww.Norton & co., 2005
6. Francis D.Ching, Design Drawing, Wiley publishers
7. Atkin William W. Corbellent, Raniero and Fiore. R. Vincent, Pencil Techniques in Modern
8. Design. 4th ed. Reinhold pub Corporation. New York, 1962.

## **BSCID 104**

# **Foundation of Design- I**

### **UNIT 1**

Introduction to design and concept, what is art, types of arts.  
Performing arts( dance,music,dramatics),visual arts (fine arts,interiors,fashion,textiles,photography,animation,graphics,product designing, industrial designing, sculpture, architecture)

### **UNIT II: Basic of drawing**

Introduction to pencil exercises – knowledge about usage of different points of pencils, handling of pencils , practicing lines and tone building exercises.

Simple exercises of object drawings. Natural geometric forms with emphasis on depth and dimension, detail and texture , sunlight and shadow , still life.

### **UNIT III: Elements of design**

Point, line , shape /plane (2-D), form /volume (3-D), texture, pattern , colour ( colour theory )

### **UNIT IV : Principles of Design**

Balance, proportion , rhythm, harmony, unity, monotony, contrast, emphasis , scale

#### **Reference Books:**

1. Interior Design by Pratap Rao.
2. Rendering with pen and ink by Robert W Gill.
3. Interior Design Basics by Shirley Dianne Lisa.
4. Rendering in pen and ink by Arthur Leighton Guptill.
5. Basics Interior Design by Denise Smith.

# **SEMESTER II**

## **BSCID 201**

### **Element of Material-1**

#### **UNIT- I**

Introduction to building, technical terms.

#### **UNIT -II**

Foundation of building, types, merits and demerits

#### **UNIT -III**

Load bearing and non load bearing structure

#### **UNIT -IV**

Masonry- Brick and Stone

Bricks masonry, various types of bonds in bricks, Terminologies, qualities of good bricks, manufacturing process and uses, field test, Fly ash bricks and its uses. Stone masonry ashlar, rubble, various terminology, properties, Quarrying and dressing and application, classification, joints, qualities of good stone, laying, different texture.

#### **Reference Books:**

1. Bindra, S.P. and Arora, S.P. Building Construction: Planning Techniques and Methods of Construction, 19th ed. Dhanpat Rai Pub., New Delhi, 2000.
2. Moxley, R. Mitchell's Elementary Building Construction, Technical Press Ltd. Rangwala, S.C. Building Construction 22 nd ed. Charota Pub. House Anand, 2004.
3. Sushil Kumar. T.B. of Building Construction 19th ed. Standard Pub. Delhi, 2003.
4. Chowdary, K.P. Engineering Materials used in India, 7th ed. Oxford and IBH, New Delhi, 1

## **BSCID 202**

### **Basic of Drawing and Graphics-II**

#### **UNIT I**

Introduction, rendering techniques (line / dots (stippling) ,8, hatch ,pencil color/  
water color / poster

#### **UNIT II**

Isometric view, axonometric view, oblique view

#### **UNIT III**

Perspective view – one point, two point, introduction to three point perspectives

#### **UNIT IV**

Sciography, reflection of surface

#### **Reference Books:**

1. Stephen Kliment, Architectural Sketching and Rendering: Techniques for Designers and Artists, Watson Guptill, 1984.
2. Ivo.D. Drpic, Sketching and Rendering of Interior Space, Watson- Guptill, 1988.
3. Maureen Mitton, Interior Design Visual Presentation: A Guide to graphics, models and presentation techniques, 3rd edition, wiley publishers, 2007
4. Mogali Delgade Yanes and Ernest Redondo Dominquez, Freehand drawing for Architects  
and Interior Designers, ww.Norton & co., 2005
6. Francis D.Ching, Design Drawing, Wiley publishers

## **BSCID 203**

### **Design –I**

#### **UNIT-I:**

Study of various types of rooms.

#### **UNIT-II:**

Standard sizes of furniture with relation to Anthropometric data,

#### **UNIT-III:**

Drawing room, kitchen, bedroom etc.

#### **UNIT-IV:**

Drafting layout of various rooms.

Plan, elevations and isometric view

#### **Reference Books:**

1. Interior Design Reference Manual by David Kent Ballart.
2. Neufert Architects Data by Enest Neufert
3. Time Saver Standards for Design and Space Planning
4. Human Dimension and Interior Space by Julius Panero
5. Interior Graphic and Design Standards by S.C. Reni Keff
6. Metric Handbook Planning and Design Data by David A Adler.
7. Interior Design Basics by Shirley Dianne Lisa.

## **BSCID 204**

### **Foundation Of Design–II**

#### **UNIT – I Compositions techniques**

Rules of third's, golden mean, gestalt theory

**UNIT-II Yarn craft and model making** Imparting of basic and common techniques such as: Macramé, Knotting, Braiding, Twining, Tasselling, Interlacing, Knitting, Crochet, Tatting Carpet making, Tufting, etc.

#### **UNIT III: Craft documentation**

The main objective of this course is to have an in depth knowledge of the handicrafts.

The students are taught how to research and document the various crafts by visiting and meeting the craftsmen and artisans personally. An interesting aspect is to give design solutions to the artisans for further evolution of the crafts.

#### **UNIT IV: Product documentation**

Identify and select many visuals of any product except a garment (furniture or any other utility object, art forms or art effects, accessories, architecture or architectural details etc).

1. The evolution and development of the product through time
2. Product manifestation as found in different environments/lifestyles
3. Product adaptation in different materials
4. The physiology of the product
5. Marketing and merchandising of the product

#### **Reference Books:**

1. Interior Design by Pratap Rao.
2. Rendering with pen and ink by Robert W Gill.
3. Interior Design Basics by Shirley Dianne Lisa.
4. Rendering in pen and ink by Arthur Leighton Guphill.
5. Basics Interior Design by Denise Smith.

# **SEMESTER III**



## **BSCID 301**

### **Element of materials - II**

#### **UNIT- I**

Cement, Mortar. Concrete. Sand.

Its types manufacturing and its use, and its uses

#### **UNIT-II**

Timber: Types of timber, macrostructure of timber, defects in timber

Seasoning of timber, commercial form of timber, application  
in interior.

#### **UNIT -III**

Glass: Its manufacturing, types and uses.

#### **UNIT -IV**

Paints: types of paints and their application.

#### **Reference Books:**

1. Bindra, S.P. and Arora, S.P. Building Construction: Planning Techniques and Methods of Construction, 19th ed. Dhanpat Rai Pub., New Delhi, 2000.
2. Moxley, R. Mitchell"s Elementary Building Construction, Technical Press Ltd.
3. Rangwala, S.C. Building Construction 22 nd ed. Charota Pub. House Anand, 2004.
4. Sushil Kumar. T.B. of Building Construction 19th ed. Standard Pub. Delhi, 2003.
5. Chowdary, K.P. Engineering Materials used in India, 7th ed. Oxford and IBH, New Delhi.
6. Building Construction by Rangwala.

## **BSCID 302**

### **Design-II**

#### **UNIT-I**

Introduction to design problem (2BHK Residence).

#### **UNIT-II**

how to start a design, concept of bubble diagram (2BHK Residence).

#### **UNIT-III**

Concept of single and double line plan (2BHK Residence).

#### **UNIT-III**

Planning and designing of 2BHK Residence.

#### **Reference Books:**

1. Interior Design Reference Manual by David Kent Ballart.
2. Neufert Architects Data by Enest Neufert
3. Time Saver Standards for Design and Space Planning
4. Human Dimension and Interior Space by Julius Panero
5. Interior Graphic and Design Standards by S.C. Reni Keff
6. Metric Handbook Planning and Design Data by David A Adler.
7. Interior Design Basics by Shirley Dianne Lisa.

## **BSCID 303**

### **History Of Interior –I**

#### **UNIT-I**

Evolution of Indian History

Indus valley civilization, Buddhist and Jain Rock cut Architecture

#### **UNIT-II**

Elements and style of Indian interior design southern india

#### **UNIT-III**

Gujarat, Rajasthan, , Maharashtra, Orissa etc

#### **UNIT - IV**

Indo Islamic Architecture

#### **Reference Books:**

1. A Global History o Architecture by Frank Ching.
2. History of Interior Design and Furniture From Ancient Egypt to Nineteenth Century by Bobbie G Blakemore.
3. Architecture A Visual History by Jonathan Glancey.
4. History of Architecture b Banister Flecher.
5. Indian Architecture (Islamic Period) by Percy Brown.
6. The Great Ages of World Architecture by G.K Hiraskar.

## **BSCID 304**

### **Building construction- I**

#### **UNIT -I**

Basic terminologies of doors and windows, types of door and window.

#### **UNIT –II**

Designing and drafting of doors and windows, plan elevation and section.

#### **UNIT -III**

Staircase and flooring: its types and use in interior.

#### **UNIT -IV**

Partition, various types of partitions, false ceiling its fixing details.

#### **REFERENCE BOOKS –**

1. Building Construction By Sushil Kumar.
2. Building Construction By Dr. B.C. Punmia And Ashok Kumar Jain.
3. Wall Tiles And Tile Flooring By Anna Garcia Pascual.
4. Building Construction by B.C Punima, Ashok Kumar Jain, Arun Kumar Jain.
5. Building Construction by Rangwala.
6. Building Services Handbook by Fred Hall and Rojer Greeno.

## **BSCID 305**

### **Role of Interior Designers- I**

#### **Unit – I**

Role of Interior Designer in society: Interior Design Profession as compared to other professions.

Difference between profession and business.

#### **Unit – II**

IIID and other organizations related to interior design profession.

#### **Unit – III**

Interior Designers approach to works, ways of getting works: types of works, works partly executed by other Interior Designers. : various precautions to be taken before taking up the work, conditions of engagement between interior Designer and client: commencement of work.

#### **Unit – IV**

General understanding of Interior Design and integration with architecture. Role of Interior

Designer in a building project. Various subjects to be learnt by Interior Design students and their relevance to practice.

#### **Reference books:**

1. Christine .M. Piotrowski , Professional practice for Interior Designers, 3rd edition, Wileyand sons, 2001.
2. Christine M. Piotrowski, Becoming an Interior Designer, John Wiley and Sons, 2003.
3. John. F. Pile, Perspective for Interior Designers, Watson – Guptill, 1989.
4. Office Management By R. S. N. Pillai
5. Quantity Survey And Valuation By Sharma Kishan

## **BSCID 306-P**

### **Computer Applications-I (Practical)**

#### **UNIT-1**

##### AutoCAD

Facility in CAD system, advantages of using CAD, overview, creating

The drawing

( world co-ordinate system, drawing units and scaling, Drawing entities, colors and line type , layers, view ports, editing the drawing , database storage and portability, point and command entry, open architecture, drawing insertion, object snap, freehand sketching, zooming and panning, display extents, plan view and 3d views)

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# **SEMESTER IV**

# **BSCID 401**

## **Elements of Services**

### **UNIT-I**

Drainage supply and Sanitation : Sanitary fittings, and fixing methods, different materials, different drawings, systems and disposal methods, sanitary layout of different interior schemes.

### **UNIT-II**

Water supply : Different materials and fittings, Hot and cold water supply and its techniques under ground and overhead tanks, water supply layouts of different interior schemes.

### **UNIT-III**

Electrification : Light, lighting design, light sources and fixtures, natural light, artificial light, Electronic communication wiring. Generator / battery backup system, graphical symbols of electrical layout.

### **UNIT-IV**

Fire Protection : Definition, structural fire precaution, rules, fire resistance, fire fighting, equipments and detection alarms, sprinklers etc. Fire resisting, retarding materials, means of escape, staircase lifts.

#### **Reference Books:**

1. Hussain S.K, T.B of water supply and sanitary engineering, 3rd ed, Oxford and IBH pub.Ltd., New Delhi, 1994
2. Kshirsagar, S. R, Water supply engineering, 6th ed, Roorkee publications, 1980.
3. Rangwala, S.C. water supply and Sanitary Engineering : Environmental Engineering, 19th ed, Charotar pub house, Anand, 2004.
4. Electrical wiring and contracting (vol. 1 to vol.4), London. The New era Publishing Company.
5. Interior Lighting-4th edition by Gary Gordon.



## **BSCID 402**

### **Role of Interior Designer-II**

#### **Unit-I**

The changing role of Interior Designer, his relation with other consultants, contractors and client, technical knowledge and other skills required as inputs. Scope of Interior Design.

#### **Unit – II**

Interior Designers duties: drawings to be prepared : Interior Designer's relation with other parties.

Connected with works such as client, contractor, sub contractors, consultants and authorities. IIID

#### **Unit – III**

Code of professional conduct: scale of charges: units and mode of measurements, clerk of work and his duties.

#### **Unit-IV**

Inspection of work, certificate of payment to contractor, bill of quantities, schedule of rates, tenders, public, limited and negotiated tender documents and allied formalities. Preliminary knowledge of Consumer protection Act and other related acts on Interior Designers

#### **Reference books:**

1. Christine .M. Piotrowski , Professional practice for Interior Designers, 3rd edition, Wileyand sons, 2001.
2. Christine M. Piotrowski, Becoming an Interior Designer, John Wiley and Sons, 2003.
3. John. F. Pile, Perspective for Interior Designers, Watson – Guptill, 1989.
4. Office Management By R. S. N. Pillai
5. Quantity Survey And Valuation By Sharma Kishan

## **BSCID 403**

### **History Of Interior Designing-II (World history)**

#### **UNIT-I**

Elements and style of interior environment in Egypt , Greece, Rome

#### **UNIT-II**

Chinese, Japan

#### **UNIT-III**

An overview of Victorian Elizabeth, Early Christian Art ,Gothic, Byzantine, Romansque, Rococo and Baroque periods.

#### **UNIT-IV**

ArtNouveau, Cubism, Surrealism,etc. Changes in History of modern movement in interior Design and architecture – developments of modernmovements ,international modernism, regionalism and concerns with vernacular etc.Technology and its impact on life style, arts and crafts and interior design.

#### **REFERENCE BOOKS :**

1. History of Architecture by Banister Flecher.
2. A Global History of Architecture by Frank Ching.
3. History of Interior Design and Furniture From Ancient Egypt to Nineteenth Century by Bobbie G Blakemore.
4. A History of Fine Arts in Indian and West by Edith Tomory.
5. World Architecture: The Masterworks by Will Pryce, 2008.

## **BSCID 404**

### **Building construction–II**

#### **UNIT -I**

Trusses ,various types of trusses, application

#### **UNIT-II**

Arches ,various types of arches, application

#### **UNIT-III**

Roofs and Roof coverings

#### **UNIT-IV**

False ceiling and application In interior

#### **REFERENCE BOOKS –**

1. Building Construction By Sushil Kumar.
2. Building Construction By Dr. B.C. Punmia And Ashok Kumar Jain.
3. Wall Tiles And Tile Flooring By Anna Garcia Pascual.
4. Building Construction by B.C Punima, Ashok Kumar Jain, Arun Kumar Jain.
5. Building Construction by Rangwala.
6. Building Services Handbook by Fred Hall and Rojer Greeno.

## **BSCID 405**

### **Elements of Materials–III**

#### **UNIT- I**

Damp proofing and Water proofing materials and its types and uses

#### **UNIT -II**

Causes and prevention of cracks

#### **UNIT -III**

Anti termite treatment and its types and uses

#### **UNIT -IV**

Acoustical materials its properties, types and uses

#### **Reference Books:**

1. Bindra, S.P. and Arora, S.P. Building Construction: Planning Techniques and Methods of Construction, 19th ed. Dhanpat Rai Pub., New Delhi, 2000.
2. Moxley, R. Mitchell's Elementary Building Construction, Technical Press Ltd.
3. Rangwala, S.C. Building Construction 22 nd ed. Charota Pub. House Anand, 2004.
4. Sushil Kumar. T.B. of Building Construction 19th ed. Standard Pub. Delhi, 2003.
5. Chowdary, K.P. Engineering Materials used in India, 7th ed. Oxford and IBH, New Delhi.
6. Building Construction by Rangwala.

## **BSCID 406**

### **Design –III**

#### **UNIT -I**

Introduction to design problem (Duplex Bungalow or Office).

#### **UNIT -I**

how to start a design, concept of bubble diagram (Duplex Bungalow or Office).

#### **UNIT -I**

Concept of single and double line plan with rendering. Planning and designing of Duplex Bungalow or Office.

#### **UNIT -I**

Plan, Any 2 room interior and exterior elevation (Duplex Bungalow or Office)..

#### **Reference Books:**

1. Interior Design Reference Manual by David Kent Ballart.
2. Neufert Architects Data by Enest Neufert
3. Time Saver Standards for Design and Space Planning
4. Human Dimension and Interior Space by Julius Panero
5. Interior Graphic and Design Standards by S.C. Reni Keff
6. Metric Handbook Planning and Design Data by David A Adler.
7. Interior Design Basics by Shirley Dianne Lisa.
8. Designing Commercial Interior by Elizabeth A Roger.

**BSCID 407-P**

**Computer Application- II (Practical)**

**UNIT-1**

Introduction to Adobe Photoshop, Opening new files, Opening existing files, exploring the Toolbox, Exploring Panels & Menus, Creating & Viewing a New Document, About Photoshop, Navigating Photoshop, Working with Images and Basic Selections, Working with Multiple Images, Rulers, Guides & Grids, Adjusting Color with the New Adjustments Panel, Getting Started With Layers and Painting Commands, Understanding the Background Layer, Creating, Selecting, Linking & Deleting Layers, Introduction to Blending Modes

# **SEMESTER V**

# **BSCID 501**

## **Professional practice**

### **UNIT-1**

**Interior designer-** Characteristics of a proper interior designer Necessity of an interior designer

Interior designer's role towards execution of project Fees of an Interior designer

### **UNIT -2**

Ethics & professional codes of conduct for interior designer Self-development of an interior designer Job procurement and public relations. Recording, Documentation of projects.

### **UNIT -3**

**Office management-** Office management for professional Interior designer Site management for professional Interior designer, CPM, PERT, Bar Chart Arbitration and the legal aspects of the contract and contract documents.

### **UNIT-4**

Quantity survey, Rate analysis Agreements: client to interior designer / client to contractor

Rate analysis: required for tender documents.

### **Reference books:**

1. Christine .M. Piotrowski , Professional practice for Interior Designers, 3rd edition, Wileyand sons, 2001.
2. Christine M. Piotrowski, Becoming an Interior Designer, John Wiley and Sons, 2003.
3. John. F. Pile, Perspective for Interior Designers, Watson – Guptill, 1989.
4. Office Management By R. S. N. Pillai
5. Quantity Survey And Valuation By Sharma Kishan



## **BSCID 502**

### **Estimating and costing**

#### **UNIT-1**

**Specification-** Objects of specifications Importance of specifications Types of specifications. Principals of specification costing Specification of different items.

#### **UNIT-2**

**Abstract of work-** How to calculate the quantity Taking out prices Estimation process.

#### **UNIT-3**

**Tenders-** Types of tenders, Contract, Billing, certificates of payments.

#### **UNIT-4**

**Contracts -** Introduction and its types. Estimating interior items manually and through spreadsheet programmes. Specification writing Performa, order writing , scheduling etc.

#### **UNIT-5**

Types of measurements, modes of measurements : methods of taking out quantities preparation of schedule or bill of quantities.

#### **Reference books:**

1. Estimating, Costing, Specification & Valuation By M Chakraborti.
2. Estimating and Costing for Interior Designers by Daina Alison.
3. Estimating and Costing- II by H.S.V Viswanath
4. Christine .M. Piotrowski , Professional practice for Interior Designers, 3rd edition, Wiley and sons, 2001
5. Estimating And Costing In Civil Engineering By K. Chikalo.

## **BSCID 503**

# **Principles of Marketing Management**

### **Unit-I**

Marketing Concepts – Approaches to Marketing –Core concepts of marketing - Marketing Process – Functions of Marketing. Marketing Environment– The changing marketing environment – Analyzing needs and trends in Macro Environment and Micro Environment

### **Unit-II**

Market Segmentation – Bases for market segmentation of consumer goods, industrial goods and services – Market Targeting and positioning strategies. New Product Decision Process – Types of new products – Test Marketing of a new product, Packaging – Purpose, Types and New Trends in packaging

### **Unit-III**

Marketing Mix – Four P's – Its significance in the competitive environment – Product and Product Line – Product Mix – Product Life Cycle – Managing the product in Product Life Cycle. Physical Distribution – Importance and role of distribution in marketing – Introduction to the various channels of distribution – Promotion Tools – Sales Promotion, Advertising, Personal Selling, Direct Marketing and Online Marketing as promotion tools

### **Unit-IV**

Pricing –importance – methods – objectives –factors. Market Evaluation and Controls – Types, processes, obstacles to marketing control – Marketing Audit – Marketing Ethics

### **Books Recommended**

1. Marketing Special Indian Edition- Dhruv Grewal, Michael Levy
2. Marketing - Stanton,,Michael Etzel, Walker(Tata )
3. Marketing Management - V.S.Ramaswamy and S.Namakumari
4. Principles of Marketing 9th Edition - Philip Kotler and Gary Armstrong
5. Marketing - Bovee and John Thill
6. Marketing Models - Lilien & Kotler & Moorthy
7. Case Studies in Marketing – Indian context - R.Srinivas

# **BSCID 504**

## **Design-IV**

### **UNIT-1**

Planning and designing of commercial area Hotel, Restaurants, Café etc.

Working drawing of design problem, Detailed plan with detailed dimensions, sectional elevation, specification, electrical layout, plumbing layout, ceiling layout.

#### **Reference Books:**

1. Interior Design Reference Manual by David Kent Ballart.
2. Neufert Architects Data by Enest Neufert
3. Time Saver Standards for Design and Space Planning
4. Human Dimension and Interior Space by Julius Panero
5. Interior Graphic and Design Standards by S.C. Reni Keff
6. Metric Handbook Planning and Design Data by David A Adler.
7. Interior Design Basics by Shirley Dianne Lisa.
8. Designing Commercial Interior by Elizabeth A Roger.

## **BSCID 505**

# **Environmental Science**

### **UNIT – I**

General: Environmental segments, environmental degradation, environmental impact assessment.

Concept of Ecosystem: Fundamental of Ecology and Ecosystem, components of ecosystem, food-chain, food-web, trophic levels, energy flow, cycling of nutrients, major ecosystem types (forest, grass land and aquatic ecosystem).

### **UNIT – II**

Air Pollution: Atmospheric composition, energy balance, classification of air pollutants, source and effect of pollutants – Primary (CO, SO<sub>x</sub>, NO<sub>x</sub>, particulates, hydrocarbons), Secondary [photochemical smog, acid rain, ozone, PAN (Peroxy Acetyl Nitrate)], green house effect, ozone depletion, atmospheric stability and temperature inversion, Techniques used to control gaseous and particulate pollution, ambient air quality standards.

### **UNIT – III**

Water Pollution: Hydrosphere, natural water, classification of water pollutants, trace element contamination of water, sources and effect of water pollution, types of pollutants, determination and significance of D.O., B.O.D., C.O.D. in waste water, Eutrophication, methods and equipment used in waste water treatment preliminary, secondary and tertiary.

### **UNIT – IV**

Land Pollution & Noise Pollution: Lithosphere, pollutants (agricultural, industrial, urban waste, hazardous waste), their origin and effect, collection of solid waste, solid waste management, recycling and reuse of solid waste and their disposal techniques (open dumping, sanitary land filling, thermal, composting).

Noise Pollution: Sources, effect, standards and control.

### **UNIT – V**

Environmental Biotechnology: Definition, current status of biotechnology in environmental protection, bio-fuels, bio-fertilize, bio-surfactants, bio-sensor, bio-chips, bio-reactors.

Pollution Prevention through Biotechnology: Tannery industry, paper and pulp industry, pesticide industry, food and allied industry.

### **Text Books**

1. Environment and Ecology by Piyush Kant Pandey and Dipti Gupta (Sum India Publication)
2. A Textbook of Environmental Chemistry and Pollution Control by S.S. Dara (S. Chand and Company)

### **Reference Books:**

1. Masters, G.M. Introduction to Environment Engineering and Science (Prentice Hall of India).
2. Environmental Chemistry by A.K. Dey (Eastern Ltd.).
3. Environmental Chemistry by B.K. Sharma (Krishna Prakashan).
4. Nebel B.J. Environmental Science (Prentice Hall of India-1987).
5. Environmental Biotechnology by S.N. Jogdand (Himalaya Publishing House).
6. Introduction to Environmental Biotechnology by A.K. Chatterji (Prentice Hall of India).

**BSCID 506**

**Computer Application- III (Practical)**

**UNIT-1**

**Introduction to computer aided 3d drafting**

- Google sketch up

# **SEMESTER VI**

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# **Semester VI**

1. Internship

2. Thesis

3. Viva voce

