

Bachelor Of Vocation (Interior Design)

Programme structure (Syllabus)

YEAR: FIRST YEAR (SEM-I)									
Module code	Subject name	Lecture	Tutorial	Practical	Credit	End sem exam	Marks		
							Internal	External	Total
GENERAL EDUCATION COMPONENT									
BVID 101	Communication Skills - I	2	1	0	3	Theory	10	40	50
BVID 102	History of Interior Design	2	1	0	3	Theory	20	80	100
BVID 103	Basic Design & Visual Arts - I	2	1	6	6	END SEM VIVA	20	80	100
SKILL COMPONENT									
BVID 104	Construction & Materials - I	3	2	2	6	Theory	30	120	150
BVID 105	Graphic Design - I	1	0	6	4	END SEM VIVA	40	160	200
BVID 106	Interior Design - I	0	2	12	8	END SEM VIVA	40	160	200
	TOTAL				30		160	640	800

YEAR: FIRST YEAR (SEM-II)									
Module code	Subject name	Lecture	Tutorial	Practical	Credit	End sem exam	Marks		
							Internal	External	Total
GENERAL EDUCATION COMPONENT									
BVID 201	Communication Skills - II	2	1	0	3	Theory	10	40	50
BVID 202	Graphic Design - II	2	1	0	3	END SEM VIVA	40	160	200
BVID 203	Basic Design & Visual Arts - II	2	1	6	6	END SEM VIVA	20	80	100
SKILL COMPONENT									
BVID 204	Construction & Materials - II	3	2	2	6	Theory	30	120	150
BVID 205	Interior Services - I	1	0	6	4	Theory	20	80	100
BVID 206	Interior Design - II	0	2	12	8	END SEM VIVA	40	160	200
	TOTAL				30		160	640	800

2

YEAR SECOND YEAR (SEM-III)									
Module code	Subject name	Lecture	Tutorial	Practical	Credit	End sem exam	Marks		
							Internal	External	Total
GENERAL EDUCATION COMPONENT									
BVID 301	Computer Applications – I	0	1	4	3	END SEM VIVA	20	80	100
BVID 302	Specifications	2	1	0	3	Theory	10	40	50
BVID 303	Furniture Design – I	2	1	6	6	END SEM VIVA	40	160	200
SKILL COMPONENT									
BVID 304	Construction & Materials – III	3	2	2	6	Theory	30	120	150
BVID 305	Interior Services – II	3	1	0	4	Theory	20	80	100
BVID 306	Interior Design– III	0	2	12	8	END SEM VIVA	40	160	200
	TOTAL				30		160	640	800

YEAR SECOND YEAR (SEM-IV)									
Module code	Subject name	Lecture	Tutorial	Practical	Credit	End sem exam	Marks		
							Internal	External	Total
GENERAL EDUCATION COMPONENT									
BVID 401	Computer Applications – II	0	1	4	3	END SEM VIVA	20	80	100
BVID 402	Estimation	2	1	0	3	Theory	10	40	50
BVID 403	Furniture Design – II	2	1	6	6	END SEM VIVA	40	160	200
SKILL COMPONENT									
BVID 404	Construction & Materials – IV	3	2	2	6	Theory	30	120	150
BVID 405	Interior Services – III	3	1	0	4	Theory	20	80	100
BVID 406	Interior Design– IV	0	2	12	8	END SEM VIVA	40	160	200
	TOTAL				30		160	640	800

J2
11/3/22

JAY
11.3.22

DILLO
11.3.22

Rashu

Pablo
11.3.22

3

YEAR-THIRDYEAR (SEM-V)									
Module code	Subject name	Lecture	Tutorial	Practical	Credit	End sem exam	Marks		
							Internal	External	Total
GENERAL EDUCATION COMPONENT									
BVID 501	Computer Applications - III	0	0	6	6	END SEM VIVA	40	160	200
BVID 502	Professional Practice	2	0	0	3	Theory	20	80	100
BVID 503	Sustainable Practices in Interior Design	2	1	0	3	Theory	20	80	100
SKILL COMPONENT									
BVID 504	Project	2	4	24	18	END SEM VIVA	80	320	400
	TOTAL				30		160	640	800

YEAR-THIRDYEAR (SEM-VI)									
Module code	Subject name	Lecture	Tutorial	Practical	Credit	End sem exam	Marks		
							Internal	External	Total
SKILL COMPONENT									
BVID 601	Project	4	8	36	30	END SEM VIVA	0	800	800
	TOTAL				30		0	800	800

SAVY 11/3/22
 Pius 11/5/22
 Prable 11/3/22
 Agnil 11/5/22
 52 11/3/22
 Baku

21

First Year (Semester - I)

Module 1: Developing the ability to read, understand, & communicate in English.

Module 2: Learning to write formal communications

Module 3: Debates and group discussions.

Module 4: Familiarizing with jury / viva procedures.

Reference Books: 1. Geetha Jajivan, Kiranmai: Course in listening and speaking Skills part I, Foundation Books Pvt Ltd.
2. Lorven: Enrich your communication in English.

BVID 102: History of Interior Design :

Module 1: Ancient Indian and Western Interiors.
Developments in interior design in India and the west during the ancient period (till the industrial revolution)

Module 2: Industrial Revolution.
Changes in building forms and interior designing in the post industrial revolution period in major selected countries of the world, with examples.

Module 3: 19th and 20th Century.
Study of Victorian and Tuscan style. Art Décor and Mediterranean style of interior style. Post war modernism styles of interior design.

Module 4: Popular Interior Design Styles & Movements
Study of characteristic features of Shabby Chic, Retro, Modern, De Constructivism, Minimalism, Contemporary & other Styles/Movements in interior design.

Reference Books:

1. Joseph Aronson, *The Encyclopedia of Furniture: Third Edition*, 1961
2. Bradley Quinn, *Mid-Century Modern: Interiors, Furniture, Design Details*, Conran Octopus Interiors, 2006.
3. Jim Postell, *Furniture Design*, Wiley publishers, 2007.
4. Edward Lucie-Smith, *Furniture: A Concise History (World of Art)*, Thames and Hudson, 1985
5. Robbie. G. Blakemore, *History of Interior Design and Furniture: From Ancient Egypt to Nineteenth-Century Europe*, Wiley publishers, 2005.
6. John F. Pile, *A history of interior design*, 2nd edition, Laurence King Publishing, 2005.
7. Jeannie Ireland, *History of Interior Design*, air child publications, illustrated ed., 2009.
8. Elaine, Michael Dywer, Christopher Mackinnon, Norman A. J. Berisford Denby, *A History of Interior Design*, Rhodoc International, 1983.
9. Giedion Sigfried, *Space, Time and Architecture: The growth of a new tradition*, 4th ed. Harvard University Press, Cambridge, 1962.

BV ID 103: Basic Design & Visual Arts - I:

Module 1: Elements of Visual Composition
Learning about the elements of visual composition and how they are used e.g. point, line, plane, volume, pattern, texture, light, levels, etc.

5

- Module 2: **Principles of Visual Composition**
Understanding the principles of aesthetics and visual communication and how to use them to make a good design e.g. axis, balance, contrast, focus, etc.
- Module 3: **Freehand Skills & Object Sketching**
Exercises to develop free hand skills - i.e. drawing lines, joining points, curves, objects, etc., object sketching - still & live.
- Module 4: **Coloring**
Colour wheel, exploring colour schemes, coloring with different mediums.

Reference Books:

1. Ching, Francis D.K. *Architecture Form, space and Order*, 2nd ed. Van Nostrand Reinhold, New York, 1996.
2. Hanks, A. David. *Decorative Designs of Frank Lloyd Wright*, Dover Publications, Inc. New York, 1999.
3. Helper, E. Donald, Wallach, I. Paul. *Architecture Drafting and Design*, 3rd ed. McGraw-Hill Book Company, New York, 1977.
4. John F. Pile, *Color in Interior Design*, Mc-Graw Hill professional, 1st edition, 1997
5. Johannes Itten, *The Art of color*, John Wiley & Sons; Revised edition, 1997
6. Jonathan Pore, *Interior Color by Design. Volume 2: A design tool for Home owners, Designers and Architects*, Rockport publishers, 2005.
7. Ethel Rompilla, *Color for Interior Design*, Harry N. Abrams, 2005.
8. Itten, Johannes. *Design and Form: The basic course at the Bauhaus*, Thames and Hudson Ltd., London 1997.
9. Krier, Rob. *Architectural Composition*, Academy Editions, London, 1988.
10. Meiss, pierre Von. *Elements of Architecture: Form to place*, E and FN Spon, London, 1992.
12. Smithies, K.W. *Principles of Design in Architecture*. Chapman and Hall, 1983.
13. Wucius, Wong *Principles of two Dimensional Design*. Van Nostrand Reinhold 1972. 11
14. *Thinking Design* By Prof S Balram
15. *Visual Thinking* by Frank M. Young
16. *Elements of Design: Rowena Reed Kostellow and the Structure of Visual Relationships* Hannah G.G, Princeton Architectural Press, NY, USA
17. *How Designers think: the design process demystified* by Lawson B., Architectural Press, Oxford
18. *Design Methods* by Jones C. J., John Wiley and Sons, Inc.

Web Sites: www.graphicdesignbasics.com

BVID 104: Construction & Materials - I.

- Module 1: **Elements of buildings**
Introduction to all the elements of building, from foundation to roof, e.g. footing plinth, Threshold, walls, column, beam, slab, doors, windows, porch, lintel, parapet, etc.
- Module 2: **Structural systems**
Concept of load bearing and framed structures and differences between them, types and details of lintels, sill and Arches.
- Module 3: **Traditional/Vernacular Building Materials**
Mud, including stabilized earth, clay and clay products, lime, timber, bamboo, stone, etc.; their properties, uses, defects and preservations.
- Module 4: **Modern Building Materials**
Bricks, sand, cement, mortar, P.C.C., R.C.C. and modern building materials, their properties and uses.

Page

B. Voc. in ID

Pt. Ravishankar Shukla University, Raipur (C.G.)

Handwritten signatures and dates:
J2 12/12
SAUD 11/3/22
11/3/22
11/3/22

Stamp:
V.C. PRINCIPAL
MAHARAJA AGARWAL INTERNATIONAL COLLEGE
Shree Ramkrishna Bhimsen Marg, Samta Colony
RAIPUR (C.G.) India, Pin-492 001
771-4024459, 4066664

6

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, 2003.
2. Moxley, R. Mitchell's *Elementary Building Construction*, Technical Press Ltd. Rangwala, S.C. *Building Construction*, 22nd ed. Charota Pub. House Anand, 2004.
3. Sushil Kumar, T.B. *of Building Construction* 19th ed. Standard Pub, Delhi, 2003.
4. Rangwala, S.C. *Building Construction* 22nd ed. Charota Pub. House Anand, 2004.
5. Chowdary, K.P. *Engineering Materials used in India*, 7th ed. Oxford and IBH, New Delhi, 1990.
6. Rangwala, S.C. *Building Construction. Materials and types of Construction*, 3rd ed. John Wiley and Sons, Inc., New York, 1963.
7. Francis D. Ching, *Building Construction Illustrated*, Wiley publishers, 2008.

BVID 105: Graphic Design - I:

Module 1: Introduction to basics

Introduction and setting up the drawing equipment, introduction to metric scales, f lines, their types, quality, grade, divisions and angles, drawing polygons, circles, geometrical curves, helix etc., concept of lettering & dimensioning.

Module 2: Solid Geometry

Projection of regular rectilinear and circular solids (prisms, pyramids, cones, cylinders, spheres etc.) in different positions, sections of regular rectilinear and circular solids in varying conditions of sectional plane, development of surfaces of simple objects.

Module 3: Orthographic Projections

Orthographic projections of both, 2D shapes and 3D forms.

Module 4: Three - Dimensional Views

Isometric and Axonometric views.

Reference Books:

1. Francis D. Ching, *Design Drawing*, Wiley publishers
2. Bellings, Lance Bowen. *Perspective space and Design*.
3. Conli, Claudius. *Drawings by Architects*.
4. N.D. Bhatt, *Engineering drawing- Plane & Solid Geometry*, Charotar Pub. Anand, Gujarat
5. S. C. Rein Koff, *Interior Graphics and Design Standards*, Whitney Library, New York

BVID 106: Interior Design - I:

Module 1: Orientation to Interior Design

What is Interior Design? Difference between Architecture & Interior Design i.e the concept of shell & space, understanding the difference between design & decoration, functional and qualitative aspects of the interior environment.

Module 2: Trends

Changing modern trends of interior design; The emerging role of professional interior designers, training of interior designers related to professional practice aspects, introduction to professional bodies like IIID etc.

Module 3: Space & Interior Design

Detailed study of the functional aspects of interior spaces, understanding interior aesthetics, use of materials, texture, colour & light in interior design.

Module 4: Anthropometric Studies

Arpit 11/3/22
Shruv 11/3/22
Prabhu 11/3/22
Bahar 11/3/22

52
2/22

7

Anthropometric study of various spaces, understanding the minimum, optimum & maximum space required for different activities, studying & analyzing residential spaces like bedroom, drawing room, kitchen, etc. and design exercises on these spaces.

Reference Books:

1. Ahmed Kasu, *Interior Design*, FWAD, P.B. Bombay
2. Sudhir Diwan, *Sanskriti a manual of Interior Design Vol-I, Interior Affairs, Mumbai*
3. Karlen Mark, *Space planning Basics*, Van Nostrand Reinhold, New York, 1992.
4. Joseph D Chiara, Julius Panero, & Martin Zelnick, *Time Saver standards for Interior Design & space planning*, 2nd edition, Mc-Graw Hill professional, 2001.
5. Francis D. Ching & Corky Siegfried, *Interior Design Illustrated*, 2nd edition, Wiley publishers, 2004.
6. Julius Panero & Martin Zelnick, *Human Dimension & Interior Space : A source book of Design Reference standards*, Watson - Gupta, 1979, Karier.
7. Barner, R.M., (1980), *Motion and Time Study, Design and Measurement of work*, John Wiley, New York.
8. Borgert, E. (1982) *Housecraft - Principles and Practices*, Issac Pitman, London.
9. Chaffin, D.B. and Andersson, G.B.J. (1984) *Occupational Biomechanics*, John Wiley, New York.
10. Cromwell, L. Weibell, F.J. and Pfeiffer, E.A. (1991) *Biomedical Instrumentation and*
11. *Measurements*, Prentice Hall, New Delhi;
12. Pranav Bhatt 'Fundamentals of Art and Design'
7. Bately, Claude. *Design Development of India Architecture.*

First Year (Semester - II)

BVID 201: Communication Skills - II:

- Module 1: Making presentations, participating in a mock jury, etc.
- Module 2: Learning to write case study reports.
- Module 3: Preparing and presenting design portfolios.
- Module 4: Developing self-confidence, striving towards overall personality development.

Reference Books:

1. K K Nelson, F Dubors, *Learning to learn*, Allyn & Bacon
2. E. H. McGrath, *Basic Managerial Skills for all*, Prentice hall of India
3. P D Kulkarni & B B Sharma, *Independent Study Techniques*, TTTI, Chandigarh
4. Elizabeth Hierney, *101 Ways to Better Communication*, Kogan Page
5. Malvika Nagarkar, *Communication Skills*, MSBTE
6. Wren & Martin, *English Grammar*, Chand Books
7. Burgoon Michael, *Human Communication*, London: Sage Pub.
8. G Leech & Jan Svartvik, *A Communicative grammar of English*, ELBS
9. R K Bansal & J B Harrison, *Spoken English for India*, New York: Mcgraw Hill
10. J D O'Conner, *Better English Pronunciation*, N Delhi: Orient Longman
11. *Technical Communication : A Reader Centered Approach*, by Anderson, Thomson Learning
12. Geetha Jajivan, Kiranmai: *Course in listening and speaking Skills part I*, Foundation Books Pvt Ltd.
13. Lorven: *Enrich your communication in English*
14. Burden, Ernest, *Architectural Delineation: A photographic approach to presentation*, 2nd ed, McGraw Hill, Inc., New York, 1982.

BVID 202: Graphic Design - II:

- Module 1: **One Point Perspective**
Introduction and drawing of one point perspective of given objects.



Page

B. Voc. in ID

Pt. Ravishankar Shukla University, Raipur (C.G.)

VIC PRINCIPAL
MAHARAJA AGRASEN INTERNATIONAL COLLEGE
Shree Ramnath Bhimsen Marg, Santa Colony
RAIPUR (C.G.) India, Pin-492 001
Ph.: 0771-4024459, 4066664

52
11/3/22

8

Module 2: Two Point Perspective

Introduction and drawing of two point perspective of given objects.

Module 3: Perspective by Measuring Point Method

Introduction and drawing of perspective by measuring point method of given objects, drawing freehand perspectives.

Module 4: Shades & Shadows

Introduction and drawing of shades & shadows, in 2-D and 3-D drawings.

Reference Books:

1. N.D. Bhatt, *Engineering drawing- Plane & Solid Geometry*, Charotar Pub. Anand, Gujrat
2. S. C. Rein Koff, *Interior Graphics and Design Standards*, Whitney Library, New York
3. Robert W. Gill, *The Thames and Hudson Manual of Rendering with pen and ink*, Thames & Hudson Ltd. London
4. Graphic Shaw, *Interior Perspectives to Architectural Designs*
5. Shankar Mulik, *A Text Book of perspectives and graphics*, Allied Pub. Bombay
6. F D K Ching, *Perspective Drawing*

BV ID 203: Basic Design & Visual Arts - II.

Module 1: Rendering

Graphical representations of building elements, plants, furniture, etc. in plan, elevation and section, shading and rendering with different materials.

Module 2: Theory of Design

Introduction to architectural composition, application of elements and principles of design through 2-D and 3-D compositions, understanding shapes, forms, solids and voids.

Module 3: Art and Graphic Skills

Studying other arts forms like painting, sculpture, pottery, mural making, etc., understanding the limitations and uses of each form and learning to critically appreciate them.

Module 4: Furniture Design (Based on Basic Design Principles)

Any furniture design based on the basic design principles and art forms studied, its presentation with the help of sketches, drawings and model.

Reference Books:

1. Stephen Klimment, *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 Milton, *Interior Design Visual Presentation: A Guide to graphics, models and presentation techniques*, 3rd edition, wiley publishers, 2007 10
4. Mogali Delgade Yanes and Ernest Redondo Dominquez, *Freehand drawing for Architects and Interior Designers*, wwn.Norton & co., 2005
6. Atkin William W. Corbellent, Raniero and Fiore. R. Vincent, *Pencil Techniques in Modern Design*, 4th ed. Reinhold pub Corporation. New York, 1962.

11/3/22
11/3/22
11/3/22
11/3/22
11/3/22



Page

B. Voc. in ID

Pt. Ravishankar Shukla University, Raipur (C.G.)

12-22

12

1/C PRINCIPAL
SHARDA AGRASEN INTERNATIONAL COLLEGE
Bhimsen Marg, Samta Colony
Raipur-492 001

9

BVID 204: Construction & Materials - II:

Module 1: Materials for Flooring (Interior Floor Finishes)

Study of flooring materials - both fixed and movable/flexible, their advantages, disadvantages, application and fixing methods

Module 2: Materials for Walls (Interior Wall Finishes)

Study of different materials for wall finishes, their advantages, disadvantages, uses and application methods.

Module 3: Ceilings

Study of different types of ceilings (fixed suspended etc.), materials used for different types of ceilings, including heat and sound insulating materials.

Module 4: Doors and Windows:

Functions of doors & windows, terminology used in doors and windows, study of various types of doors & windows and their uses, understanding the joinery details of doors and windows; Learning about fastenings and fixtures used in doors and windows.

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* 22nd ed. Charota Pub. House Anand, 2004.
4. Sushil Kumar, T.B. *of Building Construction* 19th ed. Standard Pub. Delhi, 2003.
5. Chowdhary, K.P. *Engineering Materials used in India*, 7th ed. Oxford and IBH, New Delhi, 1990.
6. Rangwala, S.C. *Building Construction: Materials and types of Construction*, 3rd ed. John Wiley and Sons, Inc., New York 1963.
7. Francis D. Ching, *Building Construction Illustrated*, Wiley publishers, 2008.

BVID 205: Interior Services - I:

Module 1: Introduction & Terminologies

Introduction to electricity - its generation, transmission and supply, terminologies used in electrical supply - ampere, circuit, conductor, volt, watt, single phase, three phase, etc.

Module 2: Electrical Supply & Distribution

Supply of electricity to a residential building and its distribution - consumer control assembly (CCA), earthing, circuit breakers, etc., types of wires & wiring systems, their advantages and disadvantages, electrical outlets 5/6 Amp, 15/16 Amp, switch boards, switches, sockets, etc., thumb rules for the provision of switch boards, etc.

Module 3: Lighting and Lighting Fixtures

Purpose of lighting - ambient, task and accent lighting; Forms of lighting sources - point, linear, planar and 3D sources, Lighting types - incandescent, fluorescent, CFLs, LEDs, halogen, etc., methods of lighting - direct & indirect, up lighting, down lighting, combination of up & down lighting, concealed lighting, etc.

Module 4: Load Calculations & Layouts

Electrical appliances & their power consumption, preparation of electrical layouts.

Reference Books:

1. *Electrical wiring and contracting* (vol. 1 to vol.4), London: The New era Publishing Company.
2. Dr Frith Abnwas and others, *Electrical Engineering hand book*.
3. William J. Guinness, *Mechanical and Electrical Systems for Buildings*, New York: Mc Graw Hill.
4. Faber, Oscar and Kell, J.R. *Heating and Air conditioning of Building*, Architectural Press, Surrey, 1945.



Page

B. Voc. in ID

Pt. Ravishankar Shukla University, Raipur (C.G.)

Handwritten notes and stamps at the bottom of the page, including a date stamp "12/11/2022" and a library stamp from "MAHARAJA AGARWAL INSTITUTE OF TECHNOLOGY RAIPUR (C.G.)".

10
5. Prasad Manohar, *Refrigeration and air-conditioning 5th ed, New Age Intl. pub, New Delhi, 1996.*

BV ID 206: Interior Design - II:

Module 1: Introduction to Small scale public/commercial space.

Introduction to and understanding the meaning & scope of spaces like offices, coffee shops, retail outlets etc. Carrying out case studies, analyzing them and drawing inferences from the same, understanding the functional requirements of the client and thereby learning to prepare a client brief.

Module 2: Site Study & Analysis

Studying the given site and evaluating it on different parameters and issues including structural, aesthetical, functional, psychological, etc. analyzing the site and drawing inferences for use at the designing stage.

Module 3: Conceptualization of Design

Conceptualizing a design solution based on the above studies and analyses; Primarily ideas to be expressed with freehand drawings / rough sketches initially and then proper scaled drawings are to be made.

Module 4: Presentation of Design

Presentation of design with the help of given drawing requirements, format and model. Preparing working drawings and detailing.

Reference Books:

1. Karlen Mark, *Space planning Basics, Van Nostrand Reinhold, New York, 1992.*
2. Joseph D Chiara, Julius Panero. & Martin Zelnick, *Time Saver standards for Interior Design & space planning, 2nd edition, Mc-Graw Hill professional, 2001.*
3. Francis D Ching & Corky Bingelli, *Interior Design Illustrated, 2nd edition, Wiley publishers, 2004.*
4. Julius Panero & Martin Zelnick. *Human Dimension & Interior Space : A source book of Design Reference standards, Watson - Gupta, 1979.*
5. Karlen Mark, Kate Ruggeri & Peter Hahn, *Space Planning Basics, Wiley publishers, 2003.*

Second Year (Semester - III)

BV ID 301: Computer Applications - I:

Module 1: Introduction

Introduction to popular and most suitable software for the students, that are used for interior designing, drawing, presentation & documentation along with their types, configurations, system requirements, uses and applications & limitations, new developments on the horizon.

Module 2: Documents & Slide presentations

Learning to prepare documents and slide presentations (using software like MS Word, MS Power point, or similar).

Module 3: 2D Drafting

Introduction and primary application of software for drafting (using software like AutoCAD or equivalent in nature, output, etc.)

Module 4: Software application in designing & drawing presentation



Page

B. Voc. in ID

Pt. Ravishankar Shukla University, Raipur (C.G.)

32
13/22
VC PRINCIPAL
MAHARAJA AGRA SEN INTERNATIONAL COLLEGE
Shree Ramnakh Bhimsen Marg, Samta Colony
RAIPUR (C.G.) India, Pin-492 001
771-4924459, 4066664

(11)

Application of learned software in current semester design project, to prepare a portfolio consisting of design development and presentation drawings.

BVID 302: Specifications:

- Module 1: **Introduction**
Purpose (need) and importance of writing specifications.
- Module 2: **Types of specifications**
General specifications and detailed specifications.
- Module 3: **Writing specifications for materials**
Learning to write specifications for interior materials.
- Module 4: **Writing specifications for workmanship**
Learning to write specifications for workmanship.

Reference Books:

1. Rangwala, S.C. *Building Construction: Materials and types of Construction*, 3rd ed. John Wiley and Sons, Inc., New York, 1963.
2. Francis D. Ching, *Building Construction Illustrated*, Wiley publishers, 2

BVID 303: Furniture Design - I:

- Module 1: **Designing & drawing furniture**
Designing and drawing customized basic furniture of various types chiefly for residential use, considering design aspects like ergonomics, functionality, material application, constructability, aesthetics etc.
- Module 2: **Detailing furniture**
Understanding the necessity, use & applications of 'designed details' for customization, considering client needs, design aspects like ergonomics, functionality, material use, workability, aesthetics etc.
- Module 3: **Execution/Shop drawings of furniture**
Preparing execution/shop drawings of furniture, down to the last detail, specifying materials construction process and including pre & post construction precautions.
- Module 4: **Hands-on/Workshop experience**
Preparation of full size or scaled models of selected furniture items in workshop as per the prepared/given drawings and specified materials or simulation of materials upto a considerable acceptable limit.

Reference Books:

1. F D K Ching, *Building Construction Illustrated*, Van Nostrand
2. William P. Spence L. Duane Griffith, *Furniture & Cabinet Construction*, Prentice Hall Inc. New Jersey
3. Mario Dal Fabro, *How To Build Modern Furniture*, McGraw Hill Book Company, New York.
4. William P. Spence L. Duane Griffith, *Cabinet making, design & construction*, Prentice Hall Inc. New Jersey
5. D.A.C.A. Boyne, *Architects' Working Detail Vol. I/ III/ IV/ V & VIII*, The Arch. Press Ltd. London

BVID 304: Construction & Materials - III:

- Module 1: **Interior materials**



Page

B. Voc. in ID

Pt. Ravishankar Shukla University, Raipur (C.G.)

J2
11/3/22

Baker

Principal
RAJA AGRASEN INTERNATIONAL COLLEGE
near Ratan Nath Bhimsen Marg, Samta Colony
RAIPUR (C.G.) India, Pin-492 001
Ph - 0771-4024459, 4066664

12

Module 2: Materials for specific uses

Insulating and sound proofing materials, water proofing materials, interior and exterior cladding materials, their market forms and availability, application areas and methods of use.

Module 3: Vertical connectivity components

Design and construction of vertical connecting components like staircases, steps, ramps, etc. with use of various construction materials for interior purpose, their design parameters depending on quantum of use, feasibility, functionality, aesthetics etc

Module 4: Partitions

Design and construction of various types of partitions in interior spaces with use of various materials, along with their design limitations, design feasibility, functional aspects, etc.

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, 2006.
2. Moxley, R. Mitchell's Elementary Building Construction, Technical Press Ltd. Rangwala, S.C. Building Construction 22nd ed. Charota Pub. House Anand, 2004.
3. Sushil Kumar. T.B. of Building Construction: 19th ed. Standard Pub. Delhi, 200
4. Chowdary, K.P. Engineering Materials used in India, 7th ed. Oxford and IBH, New Delhi, 1990.
5. Rangwala, S.C. Building Construction: Materials and types of Construction, 3rd ed. John Wiley and Sons, Inc., New York, 1963. 6. Francis D. Ching, Building Construction Illustrated, Wiley publishers, 2008.
7. S.K. Duggal, Building Materials, Illustrated, A.A. Balkema, 1998.
8. John Pile, Interior Design, Harry N. Aary Publishers
9. Ahmed Kasu, Interior Design, TWAIR Pub. Bombay
10. Julius Panero Martin Zelnik, Human Dimensions and Interior Spaces, Whitney Library New York
11. Phillis Sleen Allen, Beginning of Interior Environment, New York
12. Shirish Bapat, Basic Design of Anthropometry, Bela books Publishers
13. Shirish Bapat Living Area (Interior Space) Bela books Publishers 8. Francis D K Ching, Interior Design Illustrated, Van Norstrand, New Delhi
14. V. S. Parmar, Design Fundamental in 1st architecture, Somaiya Pub. Pvt. Ltd.
15. Francis D. Ching, Building Construction Illustrated, Wiley publishers, 2

BV ID 305: Interior Services - II:

Module 1: Plumbing for water supply

Materials for water supply piping & their jointing methods, fittings available in market like bends, tee, elbow, adaptor, nipple, etc., including plumbing for hot water supply, process of plumbing including line out, taking levels & fixing of pipes.

Module 2: Sanitary piping materials

Materials for sanitary piping & their jointing methods, fittings available in market like traps, bends, tee, Y, elbow, collar, etc.;

Module 3: Plumbing & sanitary fixtures

Plumbing fixtures like valves, cocks, mixers, showers, health faucets, etc., sanitary fixtures like basins, sinks, water closets, bath tubs, urinals, bidets, etc.

Module 4: Hot water supply

Working & installation of instant water heaters, solar water heaters, gas geysers, etc.

Reference Books:

1. Rangawala, S.C Engineering Materials, Charter publishing house, Anand 1963.

2. Rangawala, S.C, Building construction. Charter publishing house, Anand 1963
3. Rangawala .S.C., Water supply and sanitary Engineering, publishing house, Roorkee.
4. Pratap R.M (1988) Interior Design Principles and practice, Standard publishers distribution, Delhi.
5. F. Hall, Plumbing technolog. *British Library Cataloguing in Publication Data*
6. Shubhangi Bhide, Building services & equipments, Rudra office
7. H. L. Ohri, Water Supply and Sanitary Engineering, Charotar Publishing House
8. C. Panchdhari, Water Supply and sanitary installations, Bureau of Indian Standards, N.Delhi
9. Sandeep Mantri, Practical Bldg. Const. & its mgmt., Mantri proj. & consultancy Pvt.ltd

BVID 306: Interior Design - III:

Module 1: Introduction to Residential Interior Design

Introduction to and understanding the meaning & scope of residential interior design, carrying out case studies, analyzing them and drawing inferences from the same, understanding the functional requirements of the client and thereby learning to prepare a client brief.

Module 2: Site Study & Analysis

Studying the given site and evaluating it on different parameters and issues including structural, aesthetical, functional, psychological, etc., analyzing the site and drawing inferences for use at the designing stage.

Module 3: Conceptualization of Design

Conceptualizing a design solution based on the above studies and analyses, primarily ideas to be expressed with freehand drawings / rough sketches initially and then proper scaled drawings are to be made.

Reference Books:

1. Karlen Mark, Space planning Basics, Van Nostrand Reinhold, New York, 1992.
2. Joseph D Chiara, Julius Panero, & Martin Zelnick, Time Saver standards for Interior Design & space planning, 2nd edition, Mc-Graw Hill professional, 2001.
3. Francis.D. Ching & Corky Bingelli, Interior Design Illustrated, 2nd edition, Wiley publishers, 2004.
4. Julius Panero & Martin Zelnick, Human Dimension & Interior Space : A source book of Design Reference standards, Watson - Guptill, 1979.
5. Maureen Mitton, Interior Design Visual Presentation: A Guide to Graphics, Models, and Presentation Techniques. John Wiley and Sons, 2003
6. Mark.W. Lin, Drawing and Designing with Confidence: A step-by-step guide, Wiley and Sons, 1993.
7. Robert Rengel, Shaping Interior Space, Fairchild Books & Visuals, 2002

Module 4: Commercial Interior Design assignment

Presentation of design with the help of given drawing requirements, format and model, using 2D graphics software.

J2
11/3/22

Shahul
11/3/22
Dino
11/3/22
Srabho
11/3/22
Agul
11/3/22
Bakhu



Second Year (Semester - IV)

BV ID 401: Computer Applications - II:

Module 1: Presentation techniques

Learning presentations techniques with software like Photoshop, or similar.

Module 2: 3D representations

Learning 3D representations using software like Sketch Up, or equivalent in nature, output, etc.

Reference Books:

1. Argelia Barcena, *Revit Architecture – Fundamentals*.
2. Cadfolks, *AutoCAD 2019 for Beginners*.
3. Murdock, K. (2015). Kelly L. Murdock's Autodesk 3ds Max 2016 Complete Reference Guide. Sdc Publications.
4. Paul, A. (2013). *Renaissance Revit: Creating Classical Architecture With Modern Software*.
5. Wing, E. (2016). *Autodesk Revit 2017 for Architecture: No Experience Required*. John Wiley & Sons.

BV ID 402: Estimation:

Module 1: Introduction

Purpose (need) and importance of estimation.

Module 2: Measurements

Understanding the modes and methods of measuring various items of an interior project.

Module 3: Rate analysis

Understanding the way of calculating the rates of various items of an interior project.

Module 4: Calculating quantities

Learning to estimate an interior project

Reference Books:

1. Roshan Namavati, *Professional Practice (Estimation & Valuation)*, Lakhani Book depot
2. Roshan Namavati, *Architectural Detailing in Residential Interiors*, Lakhani Book depot
3. C M Pitrowski, *Professional Practice in Interior Design*, Van Nostrand Reinhold
4. Harry Siegel, CPA, Alan Sigel, *A Guide to Business Principle and Practices for Interior Designers*, Whitney library of design.
5. William R. Hall, *Contract Interior Finishes*, Whitney library.
6. William Rupp, *Construction Materials of Interior Design*, Whitney Library.

BV ID 403: Furniture Design - II:

Module 1: Designing and drawing customized basic furniture of various types chiefly for commercial & public use, considering design aspects like ergonomics, functionality, material application, constructability, aesthetics etc.

Module 2: Market Study

Market Study & survey for various materials of furniture construction, covering parameters like commercial & special items, their mode of measurement & billing, availability, finishes, technical qualities, handling precautions etc.

Module 3: Detailing

Understanding the necessity, use & applications of 'designed details' for customization, considering design aspects like ergonomics, functionality, material use, workability, aesthetics etc. Including

Page

B. Voc. in ID

Pt. Ravishankar Shukla University, Raipur (C.G.)

MAHARAJA AGROTECH INTERNATIONAL COLLEGE
Shree Rishi Krishn Chaitanya Marg, Samta Colony
RAIPUR (C.G.) India, Pin-492 001
Ph.: 0771-4024459, 4066664

15

Reference Books

- BL ID 404: Construction & Materials - IV:

Module 2: Additions and alterations in framed structures

Module 4: Built-in Furniture:

Reference Books:

1. Joseph De Chaira Jullius Panero Martin Zelnik, *Time Saver Standard for Interior Design & Space Planning*, McGraw Hill New York
2. John Pile, *Interior Design*, Harry N. Adry Publishers
3. Ahmed Kasu, *Interior Design*, TWAİN Pub. Bombay
4. Jullius Panero Martin Zelnik, *Human Dimensions and Interior Spaces*, Whitney Library New York
5. Phillis Sleen Allen, *Beginning of Interior Environment*, New York
6. Shirish Bapat, *Basic Design of Anthropometry*, Bela books Publishers
7. Shirish Bapat Living Area (Interior Space) Bela books Publishers
8. Francis D K Ching, *Interior Design Illustrated*, Van Norstrand, New Delhi
9. V. S. Parmar, *Design Fundamental in 1st architecture*, Somaiya Pub. Pvt. Ltd.
10. Francis D. Ching, *Building Construction Illustrated*, Wiley publishers, 2

Module 1: Air conditioning

Mechanical ventilation and its application, heat load calculations, introduction to air conditioning systems, methods of air conditioning, equipments and components used in air conditioning, selection criteria for air conditioning systems, ducting principles, layout schemes and placement of air conditioner outlets in central air conditioning systems.

conditioning systems.

16

Abstract

Common data systems used in industry e.g. telephones, intercom, data networking for PCs, their
 lessons contribution to principles of security, types of security systems and its applications and making
 drawings of them

Module 4:

Various building automation systems (BAS) used in interiors, their applications and provisions.

Reference Books:

1. Norbert Lechner, *Heating, cooling, Lighting Design*, Library of congress Cataloguing in
2. *Publication Data*
3. Donald Hoff, *Building services and equipments*, Library of congress Cataloguing in *Publication Data*
4. Ernest Tricomi, *ABC of Air-conditioning*, D. B. Taraporevala & sons
5. Madan Mehta & James Johnson, *Architectural Acoustics, Principles and Design*
6. Frank and John Walk, *Noise and vibration*, British Library Cataloguing in *Publication Data*
6. John.F. Pile, *Interior Design*, 2nd edition, illustrated, H.N.Abrams, 1995.
7. Wanda Jankowski, *Lighting : In Architecture and Interior Design*, pbc intl, 1995.
8. Moore Fuller, *Concepts and practice of Architectural Day lighting*, Van Nostrand Reinhold co., New York, 1985.
9. David Egan. M. *Concepts in Architectural lighting* Mcgraw Hill Book company, New York, 1983.
10. Derek Clements-Croome, Derek J. Croome, *Intelligent buildings: Design, Management and Operation*, Thomas Telford Books, London, 2004.
11. Albert Ting-pat So, Wai Lok Chan, *Intelligent Building Systems*, Kluwer Academic Publishers, 1999.

BV ID 406:

Module 1:

Introduction to and understanding the meaning & scope of planning hospitality spaces, carrying out case studies, analyzing them and drawing inferences from the same; Understanding the functional requirements of the client and thereby learning to prepare a client brief.

Module 2:

Studying the given site and evaluating it on different parameters and issues including structural, aesthetical, functional, psychological, etc., analyzing the site and drawing inferences for use at the designing stage.

Module 3:

Conceptualizing a design solution based on the above studies and analyses, primarily ideas to be expressed with freehand drawings / rough sketches initially and then proper scaled drawings are to be made.

Module 4:

Presentation of design with the help of given drawing requirements, format and model, using 2D graphics software.

Reference Books:

1. Karlen Mark, *Space planning Basics*, Van Nostrand Reinhold, New York, 1992.
2. Joseph D Chiara, Julius Panero, & Martin Zelnick, *Time Saver standards for Interior Design & space planning*, 2nd edition, Mc-Graw Hill professional, 2001.
3. Francis.D. Ching & Corky Bingelli, *Interior Design Illustrated*, 2nd edition, Wiley publishers, 2004.
4. Julius Panero & Martin Zelnick, *Human Dimension & Interior Space : A source book of Design Reference standards*, Watson – Guptill, 1979.

- 17
5. Maxwell J. J. Interior Design Total Presentation: A Guide to Graphics, Models, and Presentation Techniques. John Wiley and Sons, 2015
 6. Mark F. Lee, Drawing and Designing with Confidence: A step-by-step guide, Wiley and Sons, 1993.
 7. Robert Bengel, Shaping Interior Space, Farchild Books & Visuals, 2002

Third Year (Semester - V)

BV ID 501: Computer Applications - II

Module 1: Presentation techniques

Application of presentations and rendering techniques in design project.

Module 2: 3D representations

Application of 3D modeling and drafting using software like autocad, Sketch Up, or equivalent in design project, taking layouts etc.

Reference Books:

1. Argelia Barcena, Revit Architecture – Fundamentals.
2. Cadfolks, AutoCAD 2019 for Beginners
3. Murdock, K. (2015). Kelly L. Murdock's Autodesk 3ds Max 2016 Complete Reference Guide. Sdc Publications.
4. Paul, A. (2013). Renaissance Revit: Creating Classical Architecture With Modern Software.
5. Wing, E. (2016). Autodesk Revit 2017 for Architecture: No Experience Required. John Wiley & Sons.

BV ID 502: Professional Practice:

Module 1: Role of Interior Designer in society

Interior Design profession as compared to other professions, difference between profession and business, IUID and other organizations related to interior design profession, interior designers approach to works, ethical ways of getting works.

Module 2: Issues of professional practice

Professional behaviour, ethics, contracts, tenders, arbitration etc. Career opportunities, styles of interior design practice, relationship between client and professional, type of fees, process of fees negotiations, billing methods, tax liabilities, etc.

Module 3: Interior Designer's duties

Drawings to be prepared, Interior Designer's relation with other parties connected with works such as client, contractor, sub-contractors, consultants and authorities. IUID Code of professional conduct: scale of charges: units and mode of measurements, clerk of work and his duties, inspection of work, certificate of payment to contractor, bill of quantities, and allied formalities.

Module 4: Setting up an Interior Design practice

Staff structure, filing of records, correspondence and drawings, maintenance of accounts, presentations in meetings, recording minutes of meeting, etc.

Reference Books:

1. Gupta C.B, and Srinivasan N.P, Entrepreneurship development in India, Sultan Chand & Sons, New Delhi, 2004.
2. Chumawalla S.A, Sales Management, Himalayan Publishing House, New Delhi, 1991.
3. Vasant Desai, Project Management and entrepreneurship, Himalaya Publishing House, New Delhi, (2000).
4. David H.Moll, Entrepreneurship, Prentice Hall of India, New Delhi, 1999. Frank Jerkins, Advertising, Prentice Hall of India, New India, 2000.



Page

B. Voc. in ID

Pt. Ravishankar Shukla University, Raipur (C.G.)

Handwritten signatures and dates:
 J2 11/3/22
 SAUD 11/3/22
 J2 11/3/22
 J2 11/3/22
 J2 11/3/22

Stamp:
 RAHARAJA AGRASEN INTERNATIONAL CO
 Shree Ramnath Bhimsenwade, Samta Co.
 RAIPUR (C.G.) India, Pin-492 001

Third Year (Semester - VI)

BTID 602 Practical Training

The candidates are to undergo 90 working days of full time practical training with any registered firm (registered with the Council of Architecture) or Interior Designers (Member of IUID) during the second term of the third year. This internship is intended to provide a pre-professional experience whereby students get the required experience to get hired into or start-up a design firm. By completing this internship students will develop the knowledge and skills employers seek in this competitive job market. Although courses taken at the study centre can help prepare for a future career in interior design field, it is the experiential component that actually provides the skills necessary to enter the field and be successful. During this practical training the students are expected to cover all the five phases of project management in interior designing

1. Initiating
2. Planning
3. Executing
4. Monitoring
5. Closing

The candidates shall have to produce to the Institute, a report of internship along with a certificate of successful completion of the internship from the firm they worked with, before getting hall-ticket for the VI Semester Viva-voce examination.

Handwritten signatures and dates:
J2 11/3/22
Shub 11.3.22
Puro 11.3.22
Bakur 11.3.22
Aggel 11.3.22

Handwritten signature:
J2