



MAHARAJA AGRASEN INTERNATIONAL COLLEGE

NAAC Accredited B+

(Run By Shree Maharaja Agrasen Charitable Trust)

Affiliated to Pt. Ravishankar Shukla University, Raipur

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MAHARAJA AGRASEN INTERNATIONAL COLLEGE SAMTA COLONY RAIPUR (C.G.)

(B+ Grade by NAAC Affiliated to Pt. Ravishankar Shukla University, Raipur)



Academic Year

2022-23

Syllabus for B.VOC ID

Department of Interior Design

MAHARAJA AGRASEN INTERNATIONAL COLLEGE

(B+ Grade by NAAC Affiliated to Pt. Ravishankar Shukla University, Raipur)

Department of Interior Design
Academic Year 2021-22

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

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YEAR: THIRDYEAR (SEM-V)

Module code	Subject name	Lecture Hrs	Tutorial Hrs	Practical (1/2) Hrs	Credit	End sem exam	Marks		
							Internal	External	Total
GENERAL EDUCATION COMPONENT									
BVID 501	Computer Applications – III	0	2	8	6	END SEM VIVA	40	160	200
BVID 502	Professional Practice	2	1	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 Hrs	Tutorial Hrs	Practical (1/2) Hrs	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

MAHARAJA AGRASEN INTERNATIONAL COLLEGE

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Bachelor of Vocation –Interior Design Academic Year 2022-23 Programme Structure - FIRST YEAR

Programme: Bachelor of Vocation –Interior Design

Programme Objective:

To address the importance of human habitat and the built environment that supports human activities and values so as to initiate a thoughtful and reactive design process.

Programme Specific Objective:

- To create intentional spatial interactions that can have a positive effect on human beings in whichever space they may inhabit.
- To develop the representative skills through regular studios and focus on developing visual perception of students and evolve aesthetic sensitivity.
- To promote a holistic approach to the designing process by simultaneously involving inputs from theory subjects and practical exposure by regular case studies and site visits.
- To develop the skills of planning and designing with clear understanding and applications of functionality of different types of spaces.
- To provide the diverse human requirements in terms of the long- and short-term living conditions and working life with all its fields combined.

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Department of Interior Design

Academic Year

2022-23

B Voc ID SEM I

Name of the Program: B.VOC ID-I		Program Code: BVID
Name of the Course: Communication Skills-I		Max Marks: 50
Course Code: BVID101	Total Duration- 48 Hr (3hrs per week)	(Internal: 10 + External: 40)
Lecture per week 2:00 Hrs	Tutorial per week 1:00 Hrs	Practical per week Hrs

Course Objective:

1. To improve spoken English
2. To teach students to make their designs presentable
3. To improve communication for explaining their respective designs

Unit	Topic	Duration (In Hours)	Marks
1	Developing the ability to read, understand, & communicate in English.	12	50
2	Learning to write formal communications.	12	
3	Debates and group discussions.	12	
4	Familiarizing with jury / viva procedures	12	

Course Outcome: Students will be

1. Able to speak English
2. Able to present their Design
3. Able to Explain their Design in front of jury.

References:

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

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Department of Interior Design

Academic Year

2022-23

B Voc ID SEM I

Name of the Program: B.VOC ID-I		Program Code: BVID
Name of the Course: History of Interior Design		Max Marks: 100
Course Code: BVID102	Total Duration 48 Hr (3hrs per week)	(Internal: 20+ External: 80)
Lecture per week 2:00 Hrs	Tutorial per week 1:00 Hrs	Practical per week Hrs

Course Objective:

1. To learn about evolution of design through the historic timeline.
2. To understand the style of interior design.
3. To understand historical importance, functions and development of furniture.

Unit	Topic	Duration (In Hours)	Marks
1	Ancient Indian and Western Interiors. Developments in interior design in India and the west during the ancient period (till the industrial revolution)	12	100
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.	12	
3	19th and 20th Century. Study of Victorian and Tuscan style. Artdecór and Mediterranean style of interior style. Post war modernism styles of interior design.	12	
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.	12	

Course Outcome: Students will

1. Able to Understand of design through the historic.
2. Able to Identify the style of interior design.
3. Understand the historical furniture and their design parameters.

References:

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, Rhodex International, 1983.

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Department of Interior Design

Academic Year

2022-23

B Voc ID SEM I

Name of the Program: B.VOC ID-I		Program Code: BVID
Name of the Course: Basic Design and Visual Arts - I		Max Marks: 100
Course Code: BVID103	Total Duration- 96 Hrs (6 Hrs per week)	(Internal: 20+ External: 80)
Lecture per week 2:00 Hrs	Tutorial per week 1:00 Hrs	Practical per week 3:00 Hrs

Course Objective:

1. To improve the student's sketching skill
2. To develop artistic skills and visual perception.
3. To understand the elements and principle of composition
4. To understand the basic concept behind design

Unit	Topic	Duration (In Hours)	Marks
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.	24	100
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.	24	
3	Freehand Skills & Object Sketching Exercises to develop free hand skills – i.e., drawing lines, Joining points, curves, objects, etc., object sketching – still & live.	24	
4	Coloring Colour wheel, exploring colour schemes, coloring with different mediums.	24	

Course Outcome: Students will

1. Able to sketch the graphics
2. Have perception to understand design
3. Will understand composition and its parameters

4. Able to develop design from basic concepts

References:

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.P aul. 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.
11. Smithies, K.W. Principles of Design in Architecture. Chapman and Hall, 1983.
12. Wucius, Wong. Principles of two-Dimensional Design. Van Nostrand Reinhold 1972. 11
13. Thinking Design by Prof S Balram
14. Visual Thinking by Frank M. Young
15. Elements of Design: Rowena Reed Kostellow and the Structure of Visual Relationships Hannah G.G, Princeton Architectural Press, NY, USA
16. How Designers think: the design process demystified by Lawson B., Architectural Press, Oxford 18. Design Methods by Jones C. J., John Willey and Sons, Inc.

Web Sites: www.graphicdesignbasics.com

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Department of Interior Design

Academic Year

2022-23

B Voc ID SEM 1

Name of the Program: B.VOC ID-I		Program Code: BVID
Name of the Course: Construction & Materials - I		Max Marks: 150
Course Code: BVID104	Total Duration- 96 Hr (6 Hrs per week)	(Internal: 30 External: 120)
Lecture per week 3:00 Hrs	Tutorial per week 2:00 Hrs	Practical per week 1:00 Hrs

Course Objective:

1. To understand the basics of construction
2. To improve knowledge of basic building material.
3. To update students about new technology and material

Unit	Topic	Duration (In Hours)	Marks
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.	24	150
2	Structural systems Concept of load bearing and framed structures and differences between them, types and details of lintels, sill and Arches.	24	
3	Traditional/Vernacular Building Materials Mud, including stabilized earth, clay and clay products, lime, timber, bamboo, stone, etc.; their properties, uses, defects and preservations	24	
4	Modern Building Materials Bricks, sand, cement, mortar, P.C.C., R.C.C. and modern building materials, their properties and uses.	24	

Course Outcome: Students will

1. Able to identify types of building and its structure
2. Able to identify basic material materials
3. Able to Understand the construction technology and material

References:

1. Bindra, S.P. and Arora, S.P. Building Construction: Planning Techniques and methods of Construction, 19th ed. Dhan pat Rai Pub., New Delhi, 2000.
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.

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Department of Interior Design

Academic Year

2022-23

B Voc ID SEM 1

Name of the Program: B.VOC ID-I		Program Code: BVID
Name of the Course: Graphic Design - I		Max Marks: 200
Course Code: BVID105	Total Duration- 64 Hr (4 Hrs per week)	(Internal: 40 External: 160)
Lecture per week 1:00 Hrs	Tutorial per week 0:00 Hrs	Practical per week 3:00 Hrs

Course Objective:

1. To improve the drafting skill
2. To develop the understanding of unit and measurements
3. To draft basic 2d and 3d drawings.
4. To develop the understanding of 3d objects and views

Syllabus

Unit	Topic	Duration	Marks
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.	16	200
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.	16	
3	Orthographic Projections Orthographic projections of both, 2D shapes and 3D forms	16	
4	Three – Dimensional Views Isometric and Axonometric views.	16	

Course Outcome: Students will

1. Able to draft the basic objects
2. Able to understand the units and will be able to measure objects

3. Able to draft 2d and 3d objects
4. Able to visualize and draft basic 3d views

References:

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, Charottar Pub. Anand, Gujrat
5. S. C. Rein Koff, Interior Graphics and Design Standards, Whitney Library, New York

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Department of Interior Design

Academic Year

2022-23

B Voc ID SEM 1

Name of the Program: B.VOC ID-I		Program Code: BVID
Name of the Course: Interior Design - I		Max Marks: 200
Course Code: BVID106	Total Duration- 128 Hrs (8 Hrs per week)	(Internal: 40 External: 160)
Lecture per week 0:00 Hrs	Tutorial per week 2:00 Hrs	Practical per week 6:00 Hrs

Course Objective:

1. To Understand the Interior design profession and its scope
2. To understand the anthropometry and ergonomics
3. To learn the functional aspects of design
4. To understand the aspects of interior aesthetic

Unit	Topic	Duration (In Hours)	Marks
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.	32	200
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.	32	
3	Space & Interior Design Detailed study of the functional aspects of interior spaces, understanding interior aesthetics, use of materials, texture, color & light in interior design.	32	
4	Anthropometric Studies Anthropometric study of various spaces, understanding The minimum, optimum & maximum space required for	32	

	different activities, studying & analyzing residential spaces like bedroom, drawing room, kitchen, etc. and design exercises on these spaces.		
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Course Outcome: Students will

1. Be able to understand the interior design profession and its scope
2. Be able to understand the anthropometry and ergonomics
3. Will learn the functional aspects of design
4. Be able to understand the aspects of interior aesthetic

References:

1. Ahmed Kasu, Interior Design, TWAIN Pub. Bombay
2. Sudhir Diwan, Sanskruti a manual of Interior Design Vol-1, 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 Bingelli, 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 – Guptill, 1979. Karlen
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'
13. Bately, Claude. Design Development of India Architecture.

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Department of Interior Design

Academic Year

2022-23

B Voc ID SEM II

Name of the Program: B.VOC ID-I		Program Code: BVID
Name of the Course: Communication Skills-I		Max Marks: 50
Course Code: BVID 201	Total Duration- 48 Hr (3hrs per week)	(Internal: 10 + External: 40)
Lecture per week: 2:00 Hrs	Tutorial per week: 1:00 Hrs	Practical per week: Hrs

Course Objective:

1. To improve spoken English
2. To teach students to make their designs presentable
3. To improve communication for explaining their respective designs

Syllabus:

Unit	Topic	Duration (In Hours)	Marks
1	Making presentations, participating in a mock jury, etc.	12	50
2	Learning to write case study reports	12	
3	Preparing and presenting design portfolios	12	
4	Developing self-confidence, striving towards overall personality development.	12	

Course Outcome: Students will be

1. Able to speak English
2. Able to present their Design
3. Able to explain their Design in front of jury.

References:

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

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2022-23

B Voc ID SEM II

Name of the Program: B.VOC ID-I		Program Code: BVID
Name of the Course: Graphic Design – II		Max Marks: 200
Course Code: BVID202	Total Duration- 48 Hr (3hrs per week)	(Internal: 40+ External: 160)
Lecture per week 2:00 Hrs	Tutorial per week 1:00 Hrs	Practical per week 00 Hrs

Course Objective:

1. To improve the drafting skill
2. To develop the understanding of 3d objects and views
3. To make one point and two-point perspectives
4. To make shades and shadows in plan

Syllabus

Unit	Topic	Duration (In Hours)	Marks
1	One Point Perspective Introduction and drawing of one point perspective of given objects.	12	200
2	Two Point Perspective Introduction and drawing of two point perspective of given objects	12	
3	Perspective by Measuring Point Method Introduction and drawing of perspective by measuring point method of given objects, drawing freehand perspectives.	12	
4	Shades & Shadows Introduction and drawing of shades & shadows, in 2-D and 3-drawings.	12	

Course Outcome: Students will

1. Able to improve the drafting skill
2. Able to develop the understanding of 3d objects and views
3. Able to one point and two-point perspectives
4. Able to shades and shadows in plan

References:

1. N.D. Bhatt, Engineering drawing- Plane & Solid Geometry, Charottar 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

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Department of Interior Design

Academic Year

2022-23

B Voc ID SEM II

Name of the Program: B.VOC ID-I		Program Code: BVID
Name of the Course: Basic Design and Visual Arts - II		Max Marks: 100
Course Code: BVID203	Total Duration- 96 Hrs (6 Hrs per week)	(Internal: 20+ External: 80)
Lecture per week 2:00 Hrs	Tutorial per week 1:00 Hrs	Practical per week 3:00 Hrs

Course Objective:

1. To improve the student's sketching skill
2. To develop artistic skills and visual perception.
3. To understand the elements and principle of composition
4. To understand the basic concept behind design

Syllabus

Unit	Topic	Duration (In Hours)	Marks
1	Rendering Graphical representations of building elements, plants, furniture, etc. in plan, elevation and section, shading and rendering with different materials.	24	100
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.	24	
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.	24	
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.	24	

Course Outcome: Students will

1. Able to sketch the graphics

2. Have perception to understand design
3. Will understand composition and its parameters
4. Able to develop design from basic concepts

References:

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 10
4. Mogali Delgade Yanes and Ernest Redondo Dominquez, Freehand drawing for Architects and Interior Designers, ww.Norton & co., 2005
5. Atkin William W. Corbellent, Raniero and Firore. R. Vincent, Pencil Techniques in Modern Design. 4th ed. Reinhold pub Corporation. New York, 1962.

Web Sites: www.graphicdesignbasics.com

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Department of Interior Design

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2022-23

B Voc ID SEM II

Name of the Program: B.VOC ID-I		Program Code: BVID
Name of the Course: Construction & Materials - II		Max Marks: 150
Course Code: BVID204	Total Duration- 96 Hr (6 Hrs per week)	(Internal: 30 External: 120)
Lecture per week 3:00 Hrs	Tutorial per week 2:00 Hrs	Practical per week 1:00 Hrs

Course Objective:

1. To understand the basics of construction
2. To improve knowledge of basic building material.
3. To update students about new technology and material

Syllabus

Unit	Topic	Duration (In Hours)	Marks
1	Materials for Flooring (Interior Floor Finishes) Study of flooring materials – both fixed and movable/flexible, their advantages, disadvantages, application and fixing methods.	24	150
2	Materials for Walls (Interior Wall Finishes) Study of different materials for wall finishes, their advantages, disadvantages, uses and application methods.	24	
3	Ceilings Study of different types of ceilings (fixed, suspended etc.), materials used for different types of ceilings, including heat and sound insulating materials.	24	
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.	24	

Course Outcome: Students will

1. Able to identify types of building and its structure
2. Able to identify basic material materials

3. Able to Understand the construction technology and material

References:

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. 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.

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B Voc ID SEM II

Name of the Program: B.VOC ID-I		Program Code: BVID
Name of the Course: Interior Services – I		Max Marks: 100
Course Code: BVID205	Total Duration- 64 Hr (4 Hrs per week)	(Internal: 20 External: 80)
Lecture per week 1:00 Hrs	Tutorial per week 0:00 Hrs	Practical per week 3:00 Hrs

Course Objective:

1. To understand electrical interior services and their applications
2. To understand lighting interior services and their applications
3. To calculate electrical load and prepare electrical drawings

Syllabus

Unit	Topic	Duration (In Hours)	Marks
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.	16	100
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.	16	
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.	16	
4	Load Calculations & Layouts Electrical appliances & their power consumption, preparation of electrical layouts.	16	

Course Outcome: students will

1. Able to understand electrical interior services and their applications
2. Able to understand lighting interior services and their applications
3. Able to calculate electrical load and prepare electrical drawings

References:

1. Electrical wiring and contracting (vol. 1 to vol.4), London. The New era Publishing Company.
2. Dr Frith Abnwo 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.
5. Prasad Manohar, Refrigeration and air-conditioning. 5th ed, New Age Intl. pub, New Delhi, 1996.

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B Voc ID SEM II

Name of the Program: B.VOC ID-I		Program Code: BVID
Name of the Course: Interior Design - I		Max Marks: 200
Course Code: BVID 206	Total Duration- 128 Hrs (8 Hrs per week)	(Internal: 40 External: 160)
Lecture per week 0:00 Hrs	Tutorial per week 2:00 Hrs	Practical per week 6:00 Hrs

Course Objective:

1. To Understand the Interior design profession and its scope
2. To understand the anthropometry and ergonomics
3. To learn the functional aspects of design
4. To understand planning and design of a commercial space

Syllabus

Unit	Topic	Duration (In Hours)	Marks
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.	32	200
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.	32	
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.	32	
4	Presentation of Design Presentation of design with the help of given drawing requirements, format and model. Preparing working drawings and detailing.	32	

Course Outcome: Students will

1. Able to Understand the Interior design profession and its scope
2. Able to understand the anthropometry and ergonomics
3. Able to learn the functional aspects of design
4. Able to understand planning and design of a commercial space

References:

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 – Guphill, 1979.
5. Karlen Mark, Kate Ruggeri & Peter Hahn, Space Planning Basics, Wiley publishers, 2003.

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B Voc ID SEM III

Name of the Program: B.VOC ID-II		Program Code: BVID
Name of the Course: Computer Applications – I		Max Marks: 100
Course Code: BVID 301	Total Duration- 48 Hr (3hrs per week)	(Internal: 20 + External: 80)
Lecture per week 0:00 Hrs	Tutorial per week 1:00 Hrs	Practical per week 2:00 Hrs

Course Objective:

1. To learn basic drafting soft wares.
2. To draft plans, sections, elevations and details in 2d software
3. To learn to make plans, sections, elevations and details presentable through softwares

Syllabus

Unit	Topic	Duration (In Hour)	Marks
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.	12	100
2	Documents & Slide presentations Learning to prepare documents and slide presentations (using software like MS Word, MS Power point, or similar).	12	
3	2D Drafting Introduction and primary application of software for drafting (using software like AutoCAD or equivalent in nature, output, etc.)	12	
4	Software application in designing & drawing presentation Application of learned software in current semester design project, to prepare a portfolio consisting of design development and presentation drawings.	12	

Course Outcome: Students will be

1. Able to learn basic drafting softwares.

2. Able to draft plans, sections, elevations and details in 2d software
3. Able to learn to make plans, sections, elevations and details presentable through softwares.

References:

1. Argelia Barcena, Revit Architecture – Fundamentals.
2. CAD folks, 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.

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B Voc ID SEM III

Name of the Program: B.VOC ID-II		Program Code: BVID
Name of the Course: Specifications		Max Marks: 50
Course Code: BVID 302	Total Duration- 48 Hr (3hrs per week)	(Internal: 10+ External: 40)
Lecture per week 2:00 Hrs	Tutorial per week 1:00 Hrs	Practical per week 0:00 Hrs

Course Objective:

1. To learn Purpose and need of Specifications for a project.
2. To learn to use Specifications for a project.
3. To learn to write Specifications for a project.

Syllabus

Unit	Topic	Duration (In Hours)	Marks
1	Introduction Purpose (need) and importance of writing specifications.	12	50
2	Types of specifications General specifications and detailed specifications.	12	
3	Writing specifications for materials Learning to write specifications for interior materials.	12	
4	Writing specifications for workmanship Learning to write specifications for workmanship.	12	

Course Outcome: Students will

1. Able to learn Purpose and need of Specifications for a project.
2. Able to learn to use Specifications for a project.
3. Able to learn to write Specifications for a project.

References:

1. 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,

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B Voc ID SEM III

Name of the Program: B.VOC ID-II		Program Code: BVID
Name of the Course: Furniture Design – I		Max Marks: 200
Course Code: BVID 303	Total Duration- 96 Hrs (6 Hrs per week)	(Internal: 40+ External: 160)
Lecture per week 2:00 Hrs	Tutorial per week 1:00 Hrs	Practical per week 3:00 Hrs

Course Objective:

1. To learn to Design furniture
2. To learn to detail & draw furniture
3. To learn Execution/Shop drawings of furniture

Syllabus

Unit	Topic	Duration (In Hours)	Marks
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.	24	200
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.	24	
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.	24	
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 up to a considerable & acceptable limit.	24	

Course Outcome: Students will

1. Able to learn to Design furniture
2. Able to learn to detail & draw furniture
3. Able to learn Execution/Shop drawings of furniture

References:

1. F D K Ching, Building Construction Illustrated, Van Nortrand
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

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B Voc ID SEM III

Name of the Program: B.VOC ID-II		Program Code: BVID
Name of the Course: Construction & Materials - III		Max Marks: 150
Course Code: BVID 304	Total Duration- 96 Hr (6 Hrs per week)	(Internal: 30 External: 120)
Lecture per week 3:00 Hrs	Tutorial per week 2:00 Hrs	Practical per week 1:00 Hrs

Course Objective:

1. To understand the basics of construction
2. To improve knowledge of basic building material.
3. To update students about new technology and material

Syllabus

Unit	Topic	Duration (In Hours)	Marks
1	Interior materials Interior construction materials like steel, wood, stone and other contemporary materials, their market forms and availability, application areas and methods of use.	24	150
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.	24	
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.	24	
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.	24	

Course Outcome:

1. Able to identify types of building and its structure
2. Able to identify basic material materials
3. Able to Understand the construction technology and material

References:

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 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. Adry Publishers
9. Ahmed Kasu, Interior Design, TWAIN Pub. Bombay
10. Jullius 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, VN 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,

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B Voc ID SEM III

Name of the Program: B.VOC ID-II		Program Code: BVID
Name of the Course: Interior Services – II		Max Marks: 100
Course Code: BVID 305	Total Duration- 64 Hr (4 Hrs per week)	(Internal: 20 External: 80)
Lecture per week 3:00 Hrs	Tutorial per week 1:00 Hrs	Practical per week 0:00 Hrs

Course Objective:

1. To understand plumbing interior services and their applications
2. To understand sanitary interior services and their applications
3. To understand hot water supply services and their applications

Syllabus

Unit	Topic	Duration (In Hours)	Marks
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.	16	100
2	Sanitary piping materials Materials for sanitary piping & their jointing methods, fittings available in market like traps, bends, tee, Y, elbow, collar, etc.;	16	
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.	16	
4	Hot water supply Working & installation of instant water heaters, solar water heaters, gas geysers, etc.	16	

Course Outcome: Students will

1. Able to understand plumbing interior services and their applications
2. Able to understand sanitary interior services and their applications

3. Able to understand hot water supply services and their applications

References:

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 technology, British Library Cataloguing in Publication Data 6. Shubhangi Bhide, building services & equipment's, Rudra offset
6. H. L. Ohri, Water Supply and Sanitary Engineering, Charotar Publishing House
7. C. Panchdhari, Water Supply and sanitary installations, Bureau of Indian Standards, New Delhi
8. Sandeep Mantri, Practical Bldg. Const. & its mgmt., Mantri proj. & consultancy Pvt. ltd

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B Voc ID SEM III

Name of the Program: B.VOC ID-II		Program Code: BVID
Name of the Course: Interior Design - III		Max Marks: 200
Course Code: BVID 306	Total Duration- 128 Hrs (8 Hrs per week)	(Internal: 40 External: 160)
Lecture per week 0:00 Hrs	Tutorial per week 2:00 Hrs	Practical per week 6:00 Hrs

Course Objective:

1. To Understand the Interior design profession and its scope
2. To understand the anthropometry and ergonomics
3. To learn the functional aspects of design
4. To understand planning and design of a residence

Syllabus

Unit	Topic	Duration (In Hours)	Marks
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.	32	200
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.	32	
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.	32	

4	Commercial Interior Design assignment Presentation of design with the help of given drawing requirements, format and model, using 2D graphics software.	32	
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Course Outcome: Students will

1. Able to Understand the Interior design profession and its scope
2. Able to understand the anthropometry and ergonomics
3. Able to learn the functional aspects of design
4. Able to understand planning and design of a residence

References:

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

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B Voc ID SEM IV

Name of the Program: B.VOC ID-II		Program Code: BVID
Name of the Course: Computer Applications – II		Max Marks: 100
Course Code: BVID 401	Total Duration- 48 Hr (3hrs per week)	(Internal: 20 + External: 80)
Lecture per week 0:00 Hrs	Tutorial per week 1:00 Hrs	Practical per week 2:00 Hrs

Course Objective:

1. To learn basic drafting softwares.
2. To draft plans, sections, elevations and details in 2d software
3. To learn to make plans, sections, elevations and details presentable through softwares

Syllabus

Unit	Topic	Duration (In Hours)	Marks
1	Presentation techniques Learning presentations techniques with software like Photoshop, or similar.	24	100
2	3D representations Learning 3D representations using software like Sketch Up, or equivalent in nature, output, etc.	24	

Course Outcome: Students will be

1. Able to learn basic drafting softwares.
2. Able to draft plans, sections, elevations and details in 2d software
3. Able to learn to make plans, sections, elevations and details presentable through softwares.

References:

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.

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B. Voc. ID SEM IV

Name of the Program: B.VOC ID-II		Program Code: BVID
Name of the Course: Estimation		Max Marks: 50
Course Code: BVID 402	Total Duration- 48 Hr (3hrs per week)	(Internal: 10+ External: 40)
Lecture per week 2:00 Hrs	Tutorial per week 1:00 Hrs	Practical per week 0:00 Hrs

Course Objective:

1. To learn Purpose and need of Estimation for a project.
2. To learn to use Estimation for a project.
3. To learn to write Estimates for a project.

Syllabus

Unit	Topic	Duration	Marks
1	Introduction Purpose (need) and importance of estimation.	12	50
2	Measurements Understanding the modes and methods of measuring various items of an interior project.	12	
3	Rate analysis Understanding the way of calculating the rates of various items of an interior project.	12	
4	Calculating quantities Learning to estimate an interior project	12	

Course Outcome: Students will

1. Able to learn Purpose and need of Estimation for a project.
2. Able to learn to use Estimation for a project.
3. Able to learn to write Estimates for a project.

References:

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.

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B Voc ID SEM IV

Name of the Program: B.VOC ID-II		Program Code: BVID
Name of the Course: Furniture Design –II		Max Marks: 200
Course Code: BVID 403	Total Duration- 96 Hrs (6 Hrs per week)	(Internal: 40+ External: 160)
Lecture per week 2:00 Hrs	Tutorial per week 1:00 Hrs	Practical per week 3:00 Hrs

Course Objective:

1. To learn to Design Customized furniture
2. To learn to detail & draw furniture
3. To learn Execution/Shop drawings of furniture

Syllabus

Unit	Topic	Duration (In Hours)	Marks
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.	24	200
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.	24	
3	Detailing Understanding the necessity, use & applications of 'designed details' for customization, considering design aspects like ergonomics, functionality, material use, workability, aesthetics etc. including detailing of joinery, specifying materials for designed furniture.	24	

4	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.	24	
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Course Outcome: Students will

1. Able to learn to Design Customized furniture
2. Able to learn to detail & draw furniture
3. Able to learn Execution/Shop drawings of furniture

References:

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

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B Voc ID SEM IV

Name of the Program: B.VOC ID-II		Program Code: BVID
Name of the Course: Construction & Materials - IV		Max Marks: 150
Course Code: BVID 404	Total Duration- 96 Hr (6 Hrs per week)	(Internal: 30 External: 120)
Lecture per week 3:00 Hrs	Tutorial per week 2:00 Hrs	Practical per week 1:00 Hrs

Course Objective:

1. To understand the basics of construction
2. To improve knowledge of basic building material.
3. To update students about new technology and material

Syllabus

Unit	Topic	Duration (In Hours)	Marks
1	Additions and alterations in load-bearing structures Preconstruction, during construction & post construction precautions to be taken while designing and executing additions and alterations in load-bearing structures.	24	150
2	Additions and alterations in framed structures Preconstruction, during construction & post construction precautions to be taken while designing and executing additions and alterations in framed structures.	24	
3	Mezzanine and intermediate floors and landings Design and construction of mezzanine floors, intermediate floors and landings with the use of various construction materials for interior purpose, their design parameters, viability, purpose, aesthetics, etc.	24	
4	Built-in Furniture: Understanding built-in, fixed, movable, modular furniture, etc., advantages, disadvantages and applications	24	

	of these; construction of built-in furniture for residential, commercial & hospitality spaces.		
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Course Outcome: Students will

1. Able to understand the basics of construction
2. Able to improve knowledge of basic building material.
3. Able to update students about new technology and material

References:

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, TWAIN 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 Norstrund, New Delhi
9. V. S. Parmar, Design Fundamental in 1st architecture, Somaiya Pub. Pvt. Ltd.
10. Francis D. Ching, Building Construction Illustrated, Wiley publishers,

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B Voc ID SEM IV

Name of the Program: B.VOC ID-II		Program Code: BVID
Name of the Course: Interior Services – III		Max Marks: 100
Course Code: BVID 405	Total Duration- 64 Hr (4 Hrs per week)	(Internal: 20 External: 80)
Lecture per week 3:00 Hrs	Tutorial per week 1:00 Hrs	Practical per week 0:00 Hrs

Course Objective:

1. To understand HVAC interior services and their applications
2. To understand Fire Fighting interior services and their applications
3. To understand Communication & Security Systems and their applications
4. To understand Building Automation Systems and their applications

Syllabus

Unit	Topic	Duration (In Hours)	Marks
1	Air conditioning Mechanical ventilation and its application, heat load calculations, introduction to air conditioning systems, methods of air conditioning, equipment's 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.	16	100
2	Fire fighting Introduction to the principles of fire precaution and fire-fighting, fire safety systems – fire-fighting provisions, types and applications, fire retarding materials, fire rated doors etc., rules and regulations for fire safety	16	
3	Communication & security systems Communication systems used in interiors e.g., telephones, intercom, data networking for PCs, their layouts, introduction to principles of security, types of security	16	

	systems and its applications and making provisions for them.		
4	Building automation systems Various building automation systems (BAS) used in interiors, their applications and provisions.	16	

Course Outcome: Students will

1. Able to understand HVAC interior services and their applications
2. Able to understand Fire Fighting interior services and their applications
3. Able to understand Communication & Security Systems and their applications
4. Able to understand Building Automation Systems and their applications

References:

1. Norbert Lechner, Heating, cooling, Lighting Design, Library of congress Cataloguing in Publication Data
2. Donald Hoff, building services and equipment's, Library of congress Cataloguing in Publication Data
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5. John. F. Pile, Interior Design, 2nd edition, illustrated, H.N. Abrams, 1995.
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Department of Interior Design

Academic Year

2022-23

B Voc ID SEM IV

Name of the Program: B.VOC ID-II		Program Code: BVID
Name of the Course: Interior Design - IV		Max Marks: 200
Course Code: BVID 406	Total Duration- 128 Hrs (8 Hrs per week)	(Internal: 40 External: 160)
Lecture per week 0:00 Hrs	Tutorial per week 2:00 Hrs	Practical per week 6:00 Hrs

Course Objective:

1. To Understand the Interior design profession and its scope
2. To understand the anthropometry and ergonomics
3. To learn the functional aspects of design
4. To understand planning and design of a Hospitality Space

Syllabus

Unit	Topic	Duration (In Hours)	Marks
1	Introduction to Hospitality Space Design 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.	32	200
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.	32	
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.	32	

4	Interior Design assignment of a Hospitality Space Presentation of design with the help of given drawing requirements, format and model, using 2D graphics software.	32	
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Course Outcome: Students will

1. Able to Understand the Interior design profession and its scope
2. Able to understand the anthropometry and ergonomics
3. Able to learn the functional aspects of design
4. Able to understand planning and design of a Hospitality Space

References:

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 – Guphill, 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.
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2022-23

B Voc ID SEM V

Name of the Program: B.VOC ID-III		Program Code: BVID
Name of the Course: Computer Applications – III		Max Marks: 200
Course Code: BVID 501	Total Duration- 48 Hr (3hrs per week)	(Internal: 40 + External: 160)
Lecture per week 0:00 Hrs	Tutorial per week 2:00 Hrs	Practical per week 4:00 Hrs

Course Objective:

1. To learn basic drafting soft wares.
2. To draft plans, sections, elevations and details in 2d software
3. To learn to make plans, sections, elevations and details presentable through softwares

Syllabus

Unit	Topic	Duration (In Hours)	Marks
1	Presentation techniques Application of presentations and rendering techniques in design project.	24	200
2	3D representations Application of 3D modeling and drafting using software like AutoCAD, Sketch Up, or equivalent in design project ,taking layouts etc.	24	

Course Outcome: Students will be

1. Able to learn basic drafting soft wares.
2. Able to draft plans, sections, elevations and details in 2d software
3. Able to learn to make plans, sections, elevations and details presentable through softwares

References:

1. Argelia Barcena, Revit Architecture – Fundamentals.
2. CAD folks, 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.

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2022-23

B Voc ID SEM V

Name of the Program: B.VOC ID-III		Program Code: BVID
Name of the Course: Professional Practice		Max Marks: 100
Course Code: BVID 502	Total Duration- 48 Hr (3hrs per week)	(Internal: 20+ External: 80)
Lecture per week 2:00 Hrs	Tutorial per week 1:00 Hrs	Practical per week 0:00 Hrs

Course Objective:

1. To learn role of Interior Designer in society
2. To learn issues of the professional field
3. To learn about duties as a designer and setting up practice

Syllabus

Unit	Topic	Duration (In Hours)	Marks
1	Role of Interior Designer in society Interior Design profession as compared to other professions, difference between profession and business, IID and other organizations related to interior design profession, interior designers' approach to works, ethical ways of getting works.	12	100
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.	12	
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. IID 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.	12	

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.	12	
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Course Outcome: Students will

1. Able to learn role of Interior Designer in society
2. Able to learn issues of the professional field
3. Able to learn about duties as a designer and setting up practice

References:

1. Gupta C.B, and Srinivasan N.P, Entrepreneurship development in India, Sultan Chand & Sons, New Delhi, 2004.
2. Chunawalla 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.

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2022-23

B Voc ID SEM V

Name of the Program: B.VOC ID-III		Program Code: BVID
Name of the Course: Sustainable Practices in Interior Design		Max Marks: 200
Course Code: BVID 503	Total Duration- 48 Hr (3hrs per week)	(Internal: 40+ External: 160)
Lecture per week 2:00 Hrs	Tutorial per week 1:00 Hrs	Practical per week 0:00 Hrs

Course Objective:

1. To learn sustainable designs and applications
2. To learn concepts of sustainable interiors
3. To learn principles and practice of Sustainable interior design

Syllabus

Unit	Topic	Duration (In Hours)	Marks
1	Introduction Introduction to the concept of sustainable design and rating systems.	12	200
2	Sustainable Interiors Concept of sustainable interiors, need for sustainable interiors.	12	
3	Principles of Sustainable Interior Design Understanding the principles of sustainable interior design, designing and executing a sustainable interior project.	12	
4	Practice of Sustainable Interior Design Carrying out a case study of a small sustainable project or converting one of the projects of the earlier semester to a sustainable interior project.	12	

Course Outcome: Students will

1. Able to learn sustainable designs and applications
2. Able to learn concepts of sustainable interiors

3. Able to learn principles and practice of Sustainable interior design

References:

1. Rai G.D (1996), Solar Energy Utilization, Khanna Publishers, Delhi.
2. Riggs, J.R. (1992) Materials and components of Interior Design, Regents Hall, New Jersey.
4. Faulkner, R., and Faulkner. S, (1987) Inside Today's Home, Rinehart publishing House, Newyork.
5. Roa, M.P. (1998), Interior design, principles and practice, standard publishers, Delhi.
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B Voc ID SEM V

Name of the Program: B.VOC ID-III		Program Code: BVID
Name of the Course- Project		Max Marks: 400
Course Code: BVID 504	Total Duration- 288 Hrs (18 Hrs per week)	(Internal: 80 External: 320)
Lecture per week 2:00 Hrs	Tutorial per week 4:00 Hrs	Practical per week 12:00 Hrs

Course Objective:

1. To understand basic research methods.
2. To understand the anthropometry and ergonomics
3. To learn the functional aspects of design
4. To understand planning and design of space at any given scale

Syllabus

Unit	Topic	Duration (In Hours)	Marks
1	<p>Project/Dissertation:</p> <p>Introduction of the student to basic research principles and research methods, report writing skills and dissertation writing. Student is expected to choose his/her own topic of research on a specific area/field after consultation with the dissertation guide/subject coordinator. He/She is also required to do the following before the end of the semester: -</p> <p>finalize the topic and guide, set the aim-objectives and scope of study, conduct research and review related literature, identify and conduct related case studies and project reviews, collect data and critically analyze the data, finalize the Interior Design brief/programme and identify and finalize the site for design.</p> <p>A focused individualistic approach towards design, in consultation with the guide, resulting in professionally satisfying presentation of the design that would put to test the individual strength and caliber of the student.</p>	288	400

Note: Continuous assessment of sessional work may consist of the above in the given time frame as set by the guide/subject coordinator. Students are required to submit a draft (printed) copy of the dissertation volume supplemented with finished, rendered drawings to suitable scale with

related detailing, all certified by the guide/subject coordinator and Principal, which may be presented for Final Viva-voce examination, by the end of the semester

Course Outcome: Students will

1. Able to understand basic research methods.
2. Able to understand the anthropometry and ergonomics
3. Able to learn the functional aspects of design
4. Able to understand planning and design of space at any given scale

References:

1. F D K Ching, Building Construction Illustrated, Van Nortrand
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.
5. William P. Spence L. Duane Griffith, Cabinet making, design & construction, Prentice Hall Inc. New Jersey
6. D.A.C.A. Boyne, Architects' Working Detail Vol. I/ III/ IV/ V & VIII, The Arch. Press Ltd. London

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B Voc ID SEM VI

Name of the Program: B.VOC ID-III		Program Code: BVID
Name of the Course- Project (Internship)		Max Marks: 800
Course Code: BVID 504	Total Duration- 480 Hrs (30 Hrs per week)	(Internal: 0 External: 800)
Lecture per week 4:00 Hrs	Tutorial per week 8:00 Hrs	Practical per week 18:00 Hrs

Course Objective:

1. To have thorough practical knowledge of the field
2. To learn about pre-professional experience whereby students get the required experience to get hired into or start-up a design firm.
3. To develop the knowledge and skills employers seek in this competitive job market.

Syllabus

Unit	Topic	Duration (In Hours)	Marks
	<p>Practical Training: The candidates are to undergo 90 working days of full-time practical training with any registered Architect (registered with the Council of Architecture) or Interior Designers (Member of IIID) 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:</p> <ol style="list-style-type: none">1. Initiating2. Planning3. Executing	480	800

	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.		

Course Outcome: Students will

1. Have thorough practical knowledge of the field
2. Able to learn about pre-professional experience whereby students get the required experience to get hired into or start-up a design firm.
3. Able to develop the knowledge and skills employers seek in this competitive job market.

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