

SYLLABUS
FOR
Bachelor of Vocational Degree,
Advance Diploma and Diploma
(Interior Designing)

Under

UGC's National Skill Qualification Framework
(NSQF)

At

PDEA's

Prof. Ramkrishna More Arts, Commerce College
Akurdi, Pune (Maharashtra)

Affiliated

To

Savitribai Phule University of Pune.

YEAR 2018-2019

Proposed subjects / papers in the Skill component and General Education component in each of the three years.

COURSE STRUCTURE

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Level	Code	Educational Component	Credit	Marks	PP/SV/SS
SEM I	Theory				
	BVCID1001	Material & Construction -I	3	100	PP
	BVCID1002	History of Interior Design-I	3	100	SS
	BVCID1003	Environmental Studies	3	100	SS
	BVCID1004	Communication Skills	3	100	SS
	Lab/ Practical				
	BVCID1005	Material & Construction Studio –I	2	50	SV
	BVCID1006	Drawing & Graphics	2	50	SS
	On-Job-Training (OJT)/Qualification Packs				
	BVCID1007	Workshop –I	14	100	SV
	TOTAL		30	600	

SEM II	Theory				
	BVCID1008	Material & Construction -II	3	100	PP
	BVCID1009	History of Interior Design-II	3	100	SS
	BVCID1010	Interior Building Services-I	3	100	PP
	BVCID1011	Computer Applications-I	3	100	SS
	Lab/ Practical				
	BVCID1012	Material & Construction Studio –II	2	50	SS
	BVCID1013	Interior Design Studio –I	2	50	SV
	On-Job-Training (OJT)/Qualification Packs				
	BVCID1014	Workshop -II	14	100	SV
	TOTAL		30	600	

SEM III	Theory				
	BVCID2001	Material & Construction -III	3	100	PP
	BVCID2002	Elective –I Sustainable interior Materials, Universal Design Approach in Interior Design	3	100	SS
	BVCID2003	Interior Building Services-II	3	100	PP
	BVCID2004	Computer Applications-II	3	100	SS
	Lab/ Practical				
	BVCID2005	Interior Design Studio –II	2	50	SV
	BVCID2006	Working Drawing Studio -I	2	50	SS
	On-Job-Training (OJT)/Qualification Packs				
	BVCID2007	Assistant Interior Draftsman & Site Supervisor	14	100	SV
	TOTAL		30	600	

SEM IV	Theory				
	BVCID2008	Material & Construction -IV	3	100	PP
	BVCID2009	Specifications Writing for Interiors	3	100	SS
	BVCID2010	Interior Building Services-III	3	100	PP
	BVCID2011	Quantity Surveying And Estimation	3	100	SS
	Lab/ Practical				
	BVCID2012	Interior Design Studio –III	2	50	SV
	BVCID2013	Working Drawing Studio -II	2	50	SS
	On-Job-Training (OJT)/Qualification Packs				
	BVCID2014	Assistant Interior Draftsman & Site Supervisor	14	100	SV
	TOTAL		30	600	

SEM V	Theory				
	BVCID3001	Furniture Design	3	100	SV
	BVCID3002	Office Management & Practice	3	100	PP
	BVCID3003	Advance Interior Building Services	3	100	SS
	BVCID3004	Elective-I: Set Design, Visual Display Design	3	100	SS
	Lab/ Practical/Studio				
	BVCID3005	Interior Design Studio –IV	2	50	PP
	BVCID3006	Working Drawing Studio -III	2	50	SS
	On-Job-Training (OJT)/Qualification Packs				
	BVCID3007	Assistant Interior Designer & Site Supervisor OR	14	100	SV
		Assistant Set Designer/ Visual Display Designer			
	TOTAL		30	600	

SEM VI	Theory				
	BVCID3008	Seminar on Contemporary Interior Design	3	100	SS
	BVCID3009	Codes & Standards for interior Design	3	100	SS
	BVCID3010	Elective-II : Landscape Design, Exhibition Design, Multimedia & Animation	3	100	SS
	Lab/ Practical/Studio				
	BVCID3011	Interior Design Project	7	200	SV
	On-Job-Training (OJT)/Qualification Packs				
	BVCID3012	Assistant Interior Designer & Site Supervisor	14	100	SV
	Total		30	600	

Syllabus For Second Year B.Voc. (Interior Designing)

Three Year degree Program
semester III

BVCID 2001. Materials & Construction III		3 credits
OBJECTIVES <ul style="list-style-type: none"> • To give an overview of the basic materials those are used in Interior and Architecture with reference to the material properties, feasibility, availability, durability and sustenance to climatic conditions. 		
1	Unit I Introduction to products and materials used in interiors; Water Proofing <ul style="list-style-type: none"> • Materials used for water-proofing. • Techniques used for water-proofing. 	
2	Unit II Fire- Protection <ul style="list-style-type: none"> • Fire retardant materials and their applications. • Fire – resisting properties of materials. 	
3	Unit III Thermal insulation <ul style="list-style-type: none"> • Thermal insulating materials and their applications. 	
4	Unit IV Metals <ul style="list-style-type: none"> • Properties of metals • Ferrous Metals • Finishes on ferrous metals • Non-ferrous metals • Finishes on non-ferrous metals 	
5	Unit V Plastics, Rubbers and Polycarbonates <ul style="list-style-type: none"> • Plastics • Properties of Plastics • Costs • Forming Methods • Joining • Thermoplastics • Thermosetting plastics 	

Evaluation:

- For all the above mentioned materials a basic understanding of the market research and current trend analysis will be cumulated through Market Research and Presentations by students there upon.
- Continuous assessment of sessional work may consist of evaluation of individual's writing and presentation skills, project work, power point presentations, market surveys, research work etc.
- Technical report of market surveys or exhibitions etc.
- Group Seminar on any relevant interior materials.

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.
8. Elementary Building Construction, Technical Press Ltd. Rangwala, S.C. Building Construction 22nd ed. Charota Pub. House Anand, 2004.
9. Sushil Kumar. T.B. of Building Construction 19th ed. Standard Pub. Delhi, 2003.

BVCID2002. Elective –I**03 credits****OBJECTIVES**

The topic for elective courses shall be developed based on the current trends in the practice and availability of resource persons. However, few topics are suggested for the elective course.

1	Sustainable Interior Material <ul style="list-style-type: none">● Introduction to Sustainable interiors.● Sustainable / eco - friendly materials.● Principles of sustainable Interior design: design for energy efficiency, Design for low environmental impact, Design for waste reduction, Design for longevity and flexibility, Design for healthy environments.● Energy efficient lighting● Use of natural lighting.
2	Universal Design Approach in Interior Design <ul style="list-style-type: none">● What is Universal design in Interior design● Principles of universal design.● Benefit of universal design.● Examples of universal design.

Evaluation:

- Continuous assessment of sessional work may consist of project work, sketch books, power point presentations etc.

REFERENCES

1. Sustainability in Interior Design, Sian Moxon, Laurence King Publishing, 21- Mar- 2012.
2. Perspective on Social Sustainability and Interior, Architecture: Life from the Inside, Dianne Smith, Marina Lommerse, Priya Metcalfe Editors.
3. Sustainable Design For Interior Environments Second Edition, Winchip Susan M.
4. Sustainable Commercial Interiors, Second Edition, Penny Bonda, Katie Sosnowchik.
5. Sustainable Residential Interiors Book by Annette Stelmack, Debbie Hindman, and Kari Foster.
6. Universal design handbook by wolfgang F.E. Preiser.

BVCID2003. Interior Building Services II**03 credits****OBJECTIVES**

Introduction to the principles of Electrification and lighting to enable learner design appropriate service layout. To equip the learner with concept and principles of natural and mechanical ventilation and air- conditioning.

1	Unit I Electrical systems <ul style="list-style-type: none">● Introduction to electrical systems and Applicability of electrical systems to interior spaces.● Types of Electrical Systems● Specification of electrical systems● Materials Electrical Layouts <ul style="list-style-type: none">● Learning electrical layouts● Symbols
2	Unit II Electrical Fittings and fixtures <ul style="list-style-type: none">● Types of fittings and fixtures● Types of switches● Residential lighting
3	Unit III Introduction to HVAC. <ul style="list-style-type: none">● HVAC Common Symbols-equipment symbols, duct work, heating piping, air-conditioning piping, refrigeration symbols. Air conditioning <ul style="list-style-type: none">● Introduction to air conditioning systems methods of air conditioning, equipment 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.
4	Unit III Natural ventilation <ul style="list-style-type: none">● Introduction to Natural ventilation.● Principles of natural ventilation. Mechanical ventilation <ul style="list-style-type: none">● Introduction to Mechanical ventilation.● Mechanical ventilation and its application.

Evaluation:

- Continuous assessment of sessional work may consist of evaluation of individual's writing and presentation skills, project work, power point presentations etc.
- Book reviews of any interior works.
- Technical report of visit to site/ Factory or exhibitions etc.
- Group Seminar on any relevant interior trend & style.

REFERENCE:

1. Electrical wiring and contracting (vol. 1 to vol.4), London. The New era Publishing Company.
2. Dr Frith Abnwoos 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.
6. Norbert Lechner, Heating, cooling, Lighting Design, Library of congress Cataloguing in Publication Data.
7. Donald Hoff, Building services and equipments, Library of congress Cataloguing in Publication Data
8. Ernest Tricomi, ABC of Air-conditioning, D. B. Taraporevala & sons.
9. Madan Mehta & James Johnson, Architectural Acoustics, Principles and Design
10. Frank and John Walk, Noise and vibration, British Library Cataloguing in Publication Data.

BVCID2004. Computer Applications -II**03 credits****OBJECTIVES**

- To introduce basic understanding of other software like Architectural Desktop, Revit, Archi cad etc. including 3D modeling (creating shades and shadows, attaching materials and rendering), CAD customization for different project types.
- Learner will be required to apply all the above skills learned during this semester on the design assignments prepared in the previous / current semester and present it for assessment.

1**Unit I****Introduction**

1.1 Introduce basic understanding of 3D - software like Autocad, sketchup etc including 3D modeling.

2**Unit II****Introduction to 3D – sketchup**

2.1 Introduction to basic 3D sketchup.

3**Unit III**

3.1 **Drawing Commands:** line, circle, rectangle, arc, polygon.

3.2 **Manipulation Commands:** push/ pull, offset, rotate, move, follow me, scale.

3.3 **Applying Materials:** paint bucket (B).

Modifying an Existing Drawing**4****Unit IV****Formatting of drawings for taking prints and plots.****Evaluation:**

- Continuous assessment of sessional work consists of reports/ presentation and analytical work consisting of lab assignments in hard copy.

REFERENCES

1. AutoCAD Manual
2. IntelliCAD Manual
3. AutoCAD Bible Series by Ellen Finkelstein.
4. Sketchup keystroke shortcuts, <https://pages.uoregon.edu>downloads>
5. <https://mastersketchup.com>
6. N.D. Bhatt, Engineering Drawing- Plane & Solid Geometry, Charottar Pub. Anand, Gujrat
7. S.C. Rein Koff, Interior Graphics & Design standards, Whitney Library, New York.
8. Robert W. Gill, The Thames & Hudson Manual of Rendering with Pen & Ink, Thames & Hudson Ltd. London.
9. Graphic Shaw, Interior Perspectives to Architectural Designs.
10. Shankar Mulik, A text Book of perspectives & graphics, Allied Pub. Bombay.
11. F.D.K. Ching, Perspective Drawing.

BVCID2005. Interior Design Studio II**02 credits****OBJECTIVES**

In this semester the learner is expected to enhance their skills by application of design concept and/or theme to residential interior space and small retail space by understanding the usage of basic materials and construction.

- | | |
|---|--|
| 1 | Designing a medium size residential spaces (1BHK / 2BHK) (Master Bedroom not less than 18.00 sq.mts with Attached Toilet not less than 5.00 sq.mts & Childrens Bedroom not less than 18.00 sq.mts). |
| 2 | Study and application of anthropometry, ergonomics, design principles and components related to retail spaces. The design exercise may include small retail spaces such as Garment Boutique, mobile stores, Accessories store, small Café etc. (not exceeding 30.00 sq.mts.) |

Evaluation:

- Assessment of the interior plans and elevations and views.
- Continuous assessment of sessional work may consist of sketches, scaled drawings study models in various materials, case studies, visit reports, power point presentations etc.
- Design portfolio should consist of Project Brief, Client profile, Theme Sheet, Measurement Plan/, Furniture Layout Plan/ Flooring Layout/ Reflected Ceiling Layout/ Basic Electrical Layout, Sectional Elevations.

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. Karlen Mark, Kate Ruggeri & Peter Hahn, Space Planning Basics, Wiley publishers, 2003.

BVCID 2006. Working Drawing Studio-II**02 credits****OBJECTIVES**

Introduction to graphical language and representation techniques in form of technical drawings to enable learner to visualize the design in effective manner.

1	Unit I Working drawings of Floor Systems <ul style="list-style-type: none">• Single floor in wood and steel with different floor finishes.• Introduction to double floor in steel. Raised flooring Systems: <ul style="list-style-type: none">• Raised floor for commercial spaces and I.T. rooms.
2	Unit II Working drawings of Roofing Systems <ul style="list-style-type: none">• Pitch roof/lean-to roof in steel with coated metal sheets, color clay tiles and water proofing of flat terrace and toilet.
3	Unit III Working drawings of Advance Partition Systems: <ul style="list-style-type: none">• Sliding folding partition in metal and glass.• Thermal/Acoustical partition and paneling in metal frame finished in various materials, movable partitions

Evaluation:

- Continuous assessment of sessional work should consist of drawing plates, sketch books, etc.
- Working drawing of all the topics mentioned above may be prepared based on the design projects.

REFERENCE:

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,

BVCID 2007. Assistant Interior, Draftsman & Site Supervisor 14 credits**OBJECTIVES**

The learner will be introduced to the necessary opportunity to improve and consolidate his/her knowledge in the interior design profession. .

1.	Draftsman – <ul style="list-style-type: none">● drafting all interior floor plans, elevations, sections● working drawings of furniture● electrical and plumbing layouts● all autocad and sketchup drawings
2.	Site Supervisor – Onsite supervision of ongoing furniture works as per the schedules.
3.	Assistant Interior <ul style="list-style-type: none">● Attending client meetings● Handling all cad and sketchup drawings and site supervision
Evaluation: <ul style="list-style-type: none">● The practical training is aimed to acquaint students with the prevalent purview and procedure of interior practice so that they acquire an expedient view of academics.● The learner will have to submit the detailed report of the experience gained during the training.	

Semester IV

BVCID 2008. Materials & Construction IV		03 credits
OBJECTIVES <ul style="list-style-type: none">● To familiarize the students of Interior Design material and construction methodology.● Objective of this course is to know various types of materials available in the market which are used in Execution of Interior Design projects and their application in appropriate design and area.		
1	Unit I Fibres and fibre – reinforced products <ul style="list-style-type: none">● fibre – reinforced composites.● glass fibre reinforced gypsum● glass fibre reinforced cement / concrete.● glass fibre reinforced polymer.● steel fibre reinforced concrete● Polymer fibre reinforced concretes	
2	Unit II Plumbing <ul style="list-style-type: none">● Introduction to material used for plumbing	
3	Unit III Hard ware: <ul style="list-style-type: none">● Introduction to hard ware● Types and application	
4	Unit IV Furnishing Materials <ul style="list-style-type: none">● Introduction to home furnishing.● Fabric for interior textiles.● Soft Furnishings – curtains and draperies, loose covers, cushions, bedspread.	
Evaluation: <p>Continuous assessment of sessional work may consist of project work, sketch books, power point presentations, market surveys, research work etc</p>		
REFERENCES <ol style="list-style-type: none">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, 2008.8. Homescience.weebly.com		

BVCID 2009. Specifications Writing for Interior**03 credits****OBJECTIVES**

To acquaint students with methodology of writing specifications with reference to building trades, materials, workmanship and performance of different items of work and introducing the students to specifications as an integral part of contract document for building projects.

1	Unit I General Specifications <ul style="list-style-type: none">• Specification as part of contract document, definition, need and importance, its relationship with working drawings, bill of quantities and schedule of rates.• Types of specifications, open, closed, restricted, prescriptive, performance based, or combination of above types. Use of manufactures guide etc.• Specification writing method to include master list, sectional formats, page formats, general material items, tests, performance, mode of measurements etc.• Methodology of writing item wise detailed specifications including methods and forms of writing descriptive notes on materials and workmanship based on working drawings.• Collection of catalogues and technical information on various materials, products and specialized items.• Preparation of checklist for writing detailed specifications.• Study of different building trades, their scope and contents.
2	Unit II Material Specification <ul style="list-style-type: none">• Introduction to writing specifications for building services and checklist for services such as Water Supply, Drainage, Acoustics, Electrical and HVAC installations
3	Unit III Broad outline of specification for other service installations in building such as <ul style="list-style-type: none">• Communication systems – elevators, escalators, telecommunication• Accessibility – arrangements for disabled person.• Water-proofing. (Cement, bitumen, polymer based).• External development like roads (flexible and rigid construction) pavements, kerbs, lighting, security – systems, fencing.• Environment Responsive Systems, Renewable energy applications, efficient fuel systems.

Evaluation:

Continuous assessment of sessional work may consist of project work, sketch books, power point presentations, market surveys, research work etc.

REFERENCES

1. Indian Standard Specifications
2. C.P.W.D. Specifications and schedule of rate analysis
3. Specification Writing for Architects and Engineers. By Donald A. Watson.
4. Specification Writing for Architects and Surveyors by Arthur J. Wills

BVCID 2010. Interior Building Services III**03 credits****OBJECTIVES**

Introduction to the principles of Electrification and lighting to enable learner design appropriate service layout. To equip the learner with concept and principles of natural and mechanical ventilation and air- conditioning.

1	Unit I Acoustics 1.1 Criteria in Acoustical Design & Acoustical Characteristics 1.2 Problems in Acoustical Design 1.3 Classification of Sound, sound reflection, sound absorption, transmission and reverberation time. 1.4 Sound insulation of Wall and floor. Filling and Surfacing Material.
2	Unit II Fire protection 2.1 Introduction 2.2 Fire Protection: Definition, structural fire precaution, rules, fire resistance, fire-fighting, equipments and detection alarms, sprinklers etc. Fire resisting, retarding materials, means of escape, staircase lifts. 2.3 Fire – resisting properties of material 2.4 Fire resistant construction 2.5 Fire detecting and extinguishing system
3	Unit III Provisions of standards and energy codes related to interior electrical services.

Evaluation:

- Continuous assessment of sessional work may consist of project work, sketch books, power point presentations etc.

REFERENCE:

1. services and equipments, Library of congress Cataloguing in Publication Data
2. Madan Mehta & James Johnson, Architectural Acoustics, Principles and Design.
3. Frank and John Walk, Noise and vibration, British Library Cataloguing in Publication Data.

BVCID2011. Quantity Surveying And Estimation.**03 credits****OBJECTIVES**

In this semester the learner will be equipped with knowledge and skills needed such as estimating, costing, analyzing rates and processes of tendering for practicing profession of Interior Architecture.

1	Unit I Introduction to concept of estimation <ul style="list-style-type: none">● Introduction to concept of estimation, costing and rate analysis.● Need for estimating, costing and rate analysis.
2	Unit II Components of estimation <ul style="list-style-type: none">● Components of estimation,● costing and analyzing rates (drawings and specifications, units and modes of measurements, work output, material and labour cost, contingencies, professional fees, indirect costs etc.)
3	Unit III Methods of estimating <ul style="list-style-type: none">● Methods of estimating (lump-sum, work specific, item rate etc.)● costing (percentage basis, item rate basis etc).● rate analysis (item rate basis).
Evaluation: <ul style="list-style-type: none">● Students are expected to visit exhibitions, material manufacturers units, ongoing interior sites, attend seminars and presentations of consultants and vendors related to interior profession.	
REFERENCE: <ol style="list-style-type: none">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.	

BVCID2012. Interior Design Studio –III**02credits****OBJECTIVES**

In this semester the learner is expected to apply advanced skills to planning of residential interior spaces with clear understanding and usage of contemporary materials, construction techniques and services required for the design project. The design exercise may include large multilevel luxury residence such as a Penthouse, Bungalow etc.

1	Unit I Large multilevel luxury residence such as a Penthouse, Bungalow etc. (Carpet Area between 200.00 to 300.00 sq.mts)
2	Unit II The design exercise may include large fine-dining restaurant with partly open-air area with due importance to differently abled user (Universal design), for a realistic site. (Carpet Area not less than 150.00 sq.mts)

Evaluation:

- Continuous assessment of sessional work may consist of sketches, scaled drawings, study models in various materials, case studies, visit reports, power point presentations etc.
- Design portfolio should consist of Project Brief, Client profile, Theme Sheet, Measurement Plan/ Furniture Layout Plan/ Flooring Layout/ Reflected Ceiling Layout/ Electrical Layout/ Lighting Layout, Sectional Elevations/ Perspective Views).

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 – Gupitill, 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

BVCID 2013. Working Drawing Studio -II**02 credits****OBJECTIVES**

In this semester the learner is expected to prepare working drawing and details of Residential furniture systems using various materials such as wood, plywood, block boards, artificial boards, metal, glass, stone etc in various finishes. The learner is suggested to prepare working drawing and related details of the following furniture designed by them in the previous semesters.

1 **Working drawing of the following may be prepared based on the design projects done in Semester -III.**

UNIT I (Residential spaces 1BHK / 2BHK)

- **Living room** – Wall T.V unit, Partition divider.
- **Kitchen** -Kitchen Platform, Dining Table with Chair in wood.
- **Children's bedroom** – Study table, Single bed.
- **Master bedroom** - His and Her wardrobe in plywood as basic material, Double Bed with Side Table in wood, dressing table.
- **Toilet details.**

UNIT II (Small retail spaces)

- Display shelves and counters/ areas.
- Executive Desk with side / back table.
- Store, trail room furniture.
- Cash counter.

Evaluation:

- Continuous assessment of sessional work should consist of drawing plates, sketch books, etc.
- Working drawing of all the topics mentioned above prepared based on the design projects.

REFERENCES

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

BVCID 2014. On job training		14credits
OBJECTIVES		
During this semester the learner will have to undergo training outside the institute, in such offices / organizations which will give the learner the necessary opportunity to improve and consolidate his/her knowledge in the interior design profession.		
1	Draftsman – <ul style="list-style-type: none">● drafting all interior floor plans, elevations, sections● working drawings of furniture● electrical and plumbing layouts● all autocad and sketchup drawings	
2.	Site Supervisor – Onsite supervision of ongoing furniture works as per the schedules.	
3.	Assistant Interior <ul style="list-style-type: none">● Attending client meetings● Handling all cad and sketchup drawings and site supervision	
Evaluation: <ul style="list-style-type: none">● The practical training is aimed to acquaint students with the prevalent purview and procedure of interior practice so that they acquire an expedient view of academics.● The learner will have to submit the detailed report of the experience gained during the training.		

Ar. Pournima Alhat

Coordinator

B.Voc ID Course

Prin. Dr. A.J. Khandagle