



Deccan Education Society's
Fergusson College (Autonomous)
Pune

Learning Outcomes-Based Curriculum
for 3/4 years B.Voc Interior Design Programme
as per guidelines of
NEP-2020

for
F.Y B.Voc Interior Design
With effect from Academic Year
2023-2024

Program Outcomes (POs) for B.Voc. Interior Design	
PO1	Disciplinary Knowledge: (i) Demonstrate comprehensive knowledge of one or more discipline that form a part of an undergraduate B.Voc programme (ii) Execute strong theoretical and practical understanding generated from the chosen B.Voc programme.
PO2	Critical Thinking and Problem solving: Exhibit the skill of critical Design thinking and use them to predict a range of creative solutions towards a Design problem, evaluate them and chose the most appropriate options.
PO3	Social competence: (i) Exhibit thoughts and ideas effectively in writing and orally; communicate with others using appropriate media, build effective interactive and presenting skills to meet global competencies. (ii) Able to connect to people individually or in group settings.
PO4	Research-related skills and Scientific temper: (i) Demonstrate a sense of inquiry and capability for asking relevant/appropriate questions; ability to plan, execute and report the results of an experiment (ii) Employ knowledge of the avenues for research and higher academic achievements in the chosen field and allied subjects and aware about research ethics, intellectual property rights and issues of plagiarism.
PO5	Trans-disciplinary knowledge: Create new conceptual, theoretical, methodological innovations that integrates and transcends beyond discipline-specific approaches to address a common problem.
PO6	Personal and professional competence: (i) Able to actively work individually and participates in team activities and demonstrates co-operation. (ii) Integrate enthusiasm and commitment to improve personal and team performance levels and build skills to achieve the goals.
PO7	Effective Citizenship and Ethics : Demonstrate empathetic social concern and equity centred national development; ability to act with an informed awareness of moral and ethical issues and commit to professional ethics and responsibility
PO8	Environment and Sustainability: Understand the impact of the scientific solutions in societal and environmental contexts and demonstrate the knowledge of, and need for sustainable development.
PO9	Self-directed and Life-long learning: Acquire the ability to engage in independent and life-long learning in the broadest context of socio-technological changes.

PSO No.	Program Specific Outcomes (PSOs) Upon completion of this programme the student will be able to
PSO1	Academic competence: (i) Identify fundamental concepts of manual and computer designing, drafting and Practical application. (ii) Understand the working of the business venture in terms of consultancy, execution, costing, retailing and marketing. (iii) Classify various materials, using identification and testing methods. (iv) Able to Demonstrate 2D,3D Presentation,Execution..
PSO2	Personal and Professional Competence: (i) Review the latest market conditions, contemporary design trend, updated materials (ii) Design the commercial & residential interior projects using the advanced knowledge of materials, construction techniques & softwares
PSO3	Research Competence: (i) Analyze the work of Indian and international designers also the historical database of the living styles & interior around the world to take the inspiration, for development of their own themes. (ii) Plan and Execute the theme-based personnel, Corporates or Government ventures.
PSO4	Entrepreneurial and Social competence: (i) Apply competencies including communication and presentation skills orator and listening skills; along with the skill set to work in a team as well as an individual (ii) Create a awareness through their work by using products which are green and harmless for the society.

Deccan Education Society's
Fergusson College (Autonomous), Pune
First Year Curriculum as per NEP 2020
Department of Interior Design
Course Structure

Semester	Paper	Paper Code	Paper Title		Credits
I	Major	BID-101	Basic Construction & Basic Materials Theory(T)	Theory	4
		BID-100	Basic Design (P)	Practical	2
	OE-1	BID-120	Introduction to Interior Design(T)	Theory	2
	OE-2	BID-121	Basic Interior Design (T)	Theory	2
	VSC -1	BID-130	Basic CAD (T)	Theory	2
	SEC-1	BID-140	Basic Visualization(T)	Theory	2
II	Major	BID-151	Construction Methods & Residential Services(T)	Theory	4
		BID-150	Residential Design(P)	Theory	2
	Minor - 1	BID -161	Residential Theory of Design(T)	Theory	2
	OE-3	BID-170	Theory of Interior Design(T)	Theory	2
	OE-4	BID-171	Role of Measurements, Conversion & Quantification(T)	Theory	2
	VSC-2	BID-180	CAD projects(P)	Theory	2
	SEC-2	BID-190	Visualization Techniques(P)	Theory	2

OE – Open Elective, SEC- Skill Enhancement Course, VSC-Vocational skill Course.

Teaching and Evaluation (Only for FORMAL education courses)

Course Credits	No. of Hours per Semester	No. of Hours per Week	Maximum Marks	CE 40 %	ESE 60%
	Theory/Practical	Theory/Practical			
1	15 / 30	1 / 2	25	10	15
2	30 / 60	2 / 4	50	20	30
3	45 / 90	3 / 6	75	30	45
4	60 / 120	4 / 8	100	40	60

Eligibility: As per the rules and regulations of Savitribai Phule Pune University (SPPU)

F. Y. B.Voc Interior Desgin. Semester 1

BID- 101	Basic Construction & Basic Materials (Major- Theory)	Credits: 04 Hours : 60
Course Outcome (COs) On completion of the course, the students will be able to:		Bloom's cognitive level
CO1	State types of Framed structure and explain components of buildings involved in structure.	1
CO2	Discuss different types of Stones and Stone masonry with Brick and Brick masonry along with Clay products.	2
CO3	Classify all types of Timbers, Door frames & Doors with its uses in Interior.	3
CO4	Explain the different types of Metals, Glasses and Paints with their characteristics & usage.	4

Unit No	Title of Unit and Contents	No of Lectures
I	Framed Structures 1.1 Pcc 1.2 Footing 1.3 Column 1.4 Plinth Beams 1.5 Plinth 1.6 Structural Column 1.7 Cill, Windows, Doors, Lintel 1.8 Masonry, Plaster 1.9 Flooring, Electriication, Painting Stone 1.1 Types 1.2 Use 1.3 Process On Stone 1.4 Market Forms	9
II	Stone Masonry 2.1 Types Of Stone Masonry 2.2 Material Used 2.3 Tools Used 2.4 Method Of Costruction 2.5 Pointing Brick 2.1 Types 2.2 Material Used 2.3 Tools Used 2.4 Method Of Manufacturing	9

	2.5 Qualities & Tests 2.6 Use	
III	Brick Masonry 3.1 Types Of Brick Masonry 3.2 Material Used 3.3 Tools Used 3.4 Method Of Construction 3.5 Pointing Clay Products 3.1 Introduction 3.2 Properties 3.3 Use 3.4 Roll In Ceramic Products	9
IV	Door Frame 4.1 Parts 4.2 Materials 4.3 Hardware Used 4.3 Fixing Timber 4.1 introduction 4.2 Types 4.3 Properties & Drawbacks 4.3 Use 4.4 Market Forms	9
V	Types Of Door 5.1 Types 5.2 Different Parts 5.3 Material Used 5.4 Hardware Used Metal 5.1 Introduction 5.2 Types 5.3 Use 5.4 Market Forms	9
VI	6. Glass 6.1 Introduction 6.2 Types 6.3 Use 6.4 Market Forms	7
VII	7. Paints 7.1 Introduction 7.2 Types 7.3 Use 7.4 Market Forms	8

Learning resources:

Interior Designing Drawing By Alan Huges.

F. Y. B.Voc Interior Design. Semester 1

BID - 100	Basic Design (Major-Practical)	Credits: 02 Hours : 60
Course Outcome (COs) On completion of the course, the students will be able to:		Bloom's cognitive level
CO1	Show the use of different equipment's & Lettering technics with different Line angles in GRID form	1
CO2	and different types of Elements of Design	2
CO3	Explain different Line Types shapes & forms in 2D & 3D with Isometric objects with all types of Alteration of Elements of designs and its applications.	3
CO4	Examine Solid Geometry through drawing with Principles of Designs and Anthropometry	4

Unit No	Title of Unit and Contents	No of Practicals
I	Introduction 1.1 Teachers & Students Introduction	3
II	Use Of Equipments & Practice 2.1 Use Of Equipments With Practice Of Lines	3
III	Grid 3.1 Practice Of Lines With Different Angles 3.2 Horizontal & Vertical Lines 3.3 30,45,60 & 90 Degree Grid	3
IV	Lettering 4.1 Practice Of Lettering 4.2 Graph Paper Practice Work 4.3 4mm Lettering With Paragraph	3
V	Line Types 5.1 Guide Lines 5.2 Measurement Lines 5.3 Object Lines 5.4 Dashed Lines 5.5 Center Line 5.6 Border Line	3
VI	Isometric Objects 6.1 Cube 6.2 Cuboid 6.3 Prism 6.4 Pyramid 6.5 Cone 6.6 Cylinder	6
VII	Solid Geometry I 7.1 Isometric View 7.2 Plan	6

	7.3 Front Elevation 7.4 Left Side Elevation 7.5 Back Elevation 7.6 Right Side Elevation	
VIII	Solid Geometry Ii 8.1 Isometric View 8.2 Plan 8.3 Front Elevation 8.4 Vertical Section 8.5 Back Elevation 8.6 Sectional Plan	6
IX	Furniture Detail – I 9.1 Detailed Study Of Furniture Unit I 9.2 Material Specification	6
X	Furniture Detail – Ii 10.1 Detailed Study Of Furniture Unit Ii 10.2 Material Specification	6
XI	Elements Of Design 11.1 Line 11.2 Shape 11.3 Form 11.4 Texture 11.5 Pattern 11.6 Space 11.7 Color 11.8 Scale	4
XII	Alteration Of Elements Of Design 12.1 Types 12.2 Use	3
XIII	Principles Of Design 13.1 Balance 13.2 Contrast 13.3 Rhythem 13.4 Emphasis 13.5 Movement 13.6 Unity 13.7 Variety	3
XIV	Anthropometry 14.1defination 14.2 Importance & Use 14.3 Different Measuremets	5

Learning Resources:

1.Interior Designing Drawing By Alan Huges

F. Y. B.Voc Interior Design. Semester 1 OE 1		
BID- 120	Introduction to Interior Design (OE 1)	Credits: 02 Hours : 30
Course Outcome (COs) On completion of the course, the students will be able to:		Bloom's cognitive level
CO1	Describe the Interior Design Concept	1
CO2	Explain the foundation of Interior Design historical and cultural context of Indian Interior Design.	2
CO3	Classify the knowledge of Interior Design to understand discipline specific case studies.	3
CO4	Analyze critical thinking and problem-solving skills in the context of Interior Design	4

Unit No	Title of Unit and Contents	No of Lectures
I	Interior History	6
II	About All Subjects	6
III	Interior As A Carrier	6
IV	Good & Bads Of the Field.	6
V	Opportunities & Challenges Of The Field	6

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Learning Resources:

1] Time Saver Standards : Interior Graphic & Design Standards by S SReznikoff

F. Y. B.Voc Interior Design. Semester 1

BID- 121	Basic Interior Design (OE-2)	Credits: 02 Hours : 30
Course Outcome (COs) On completion of the course, the students will be able to:		Bloom's cognitive level
CO1	Recall the basic concepts of Interior Design.	1
CO2	Articulate the foundation of Interior Design and explain historical and cultural context of Indian Interior Design	2
CO3	Use the knowledge of Interior Design to understand discipline specific case studies.	3
CO4	Explain critical thinking and problem-solving skills in the context of Interior Design	4

Unit No.	Title of Unit and Contents	No. of lectures
I	Basics Of Interior Design	6
II	Basics Of Theory Of Design,Construction & Materials	6
III	Basics Of Design Work,Visualization & 3d Techniques	6
IV	Basics Of Commercial Materials,Commercial Services & Estimation	6
V	Opportunities In Specialization	6

Learning resources:

Interior Designing Drawing By Alan Huges

F. Y. B.Voc. Interior Design- Semester 1		
BID- 130	Basic CAD (VSC-1)	Credits: 02 Hours : 30
Course Outcome (COs) On completion of the course, the students will be able to:		Bloom's cognitive level
CO1	Show the Autocad interface.	1
CO2	Discuss different sets of commands ,tool bars & use them in cad drawing	2
CO3	Complete the drafting of Title block by using different commands.	3
CO4	Appraise relationship between 2D & 3D technics by making Isometric objects	4

Unit No.	Title of Unit and Contents	No. of lectures
I	Introduction To Interface 1.1 Title Bar 1.2 Windows Button 1.3 Menu Bar 1.4 Standard Tool Bar 1.5 Object Properties Tool Bar 1.6 Windows Task Bar 1.7 Coordinate System Icon 1.8 Drawing Area 1.9 Cursor Cross Hair 1.10 Grip Box 1.11 Scroll Bar 1.12 Graphic Screen 1.13 Command 1.14 Object 1.15 Default Settings 1.16 Escape Key 1.17 Cascade Menu 1.18 Tool Bars 1.19 Tobble 1.20 Function Keys 1.21 File Types 1.22 Coordinate System	4
II	Command Set -1 2.1 Complete Draw Tool Bar 2.2 Complete Modify Tool Bar 2.3 Complete Layers Bar	3
III	Command Set -2 3.1 Complete Annotation Tool Bar 3.2 Complete Block Tool Bar 3.3 Complete Properties Tool Bar	3
IV	Command Set -3 4.1 Complete Utilities Tool Bar	3

	4.2 Complete Clipboard Tool Bar	
V	Title Block 5.1 Command –Rectangle,Text,Offset 5.2 Drafting Of Title Block	2
VI	Isometric Objects 6.1 Isosnap Cursor For 3d 6.2 Insert,Division,Layers 6.3drafting Of Cube,Cuboid,Prism,Pyramid,Cone ,Cylinder	4
VII	Solid Geometry I 7.1 Isometric View 7.2 Plan 7.3 Front Elevation 7.4 Left Side Elevation 7.5 Back Elevation 7.6 Right Side Elevation	4
VIII	Solid Geometry II 8.1 Isometric View 8.2 Plan 8.3 Front Elevation 8.4 Vertical Section 8.5 Back Elevation 8.6 Sectional Plan	4
IX	Solid Geometry Iii 9.1 Isometric View 9.2 Plan 9.3 Front Elevation 9.4 Vertical Section Aa 9.5 Vertical Section Bb 9.6 Sectional Plan	3

Learning resources:

- 1.Autocad 14 Instant Reference By George Omura
- 2.Mastering Autocad Civil 3d 2015 By Cyndy Davenpor

F. Y. B.Voc. Interior Design- Semester I		
BID- 140	Basic Visualization (SEC-1)	Credits: 02 Hours : 30
Course Outcome (COs) On completion of the course, the students will be able to:		Bloom's cognitive level
CO1	Recall basics of freehand Lines, Shapes with its types.	1
CO2	Explain color wheel with different color schemes	2
CO3	Use the 2D & 3D objects & make a combination of all.	3
CO4	Analyze different 3D objects through Isometric technic & convert them into crafts.	4

Unit No.	Title of Unit and Contents	No. of lectures
I	Line Drawing 1.2 Freehand Line Work With Different Angle	4
II	Basic Shapes 2.1 Freehand Shapes Drawing	4
III	Color Wheel 3.1 Introduction Of Primary,Secondary& Tertiary Colors 3.2 Color Wheel 3.3 Types Of Color Schemes	4
IV	2d Design 4.1 Practice Of 2d Shapes & Design 4.2 Composition	4
V	Craft Work 5.1 Craft Work For 3d Understanding 5.2 Visualisation Techniques	4
VI	3d Objects I 6.1 Visualizing Actual 3d Objects 6.2 Sketching Of 3d Objects	5
VII	3d Objects Ii 7.1 Visualizing Actual 3d Objects 7.2 Sketching Of 3d Objects	5

Learning resources:

1.Interior Designing Drawing By Alan Huges

F. Y. B.Voc. Interior Design. Semester II

BID-151	Construction Methods & Residential Services (Major- Theory)	Credits: 04 Hours : 60
Course Outcome (COs) On completion of the course, the students will be able to:		Bloom's cognitive level
CO1	State details of Kitchen platform and explain key factors associated with the kitchen platform. State the types of Lights & its factors with usages	1
CO2	Classify different types of windows & focus on details of Casement windows. Classify different factors of Electrification in Electric layout	2
CO3	Examine Sliding windows & study it with its material. Examine the space & prepare a False Ceiling with Electrical layout for the residential space	3
CO4	Detect the types of Staircase in details with all its wooden joinery components. Detect the services like Air conditioning & Plumbing different zones in the residential space and study it	4

Unit No	Title of Unit and Contents	No of Lectures
I	Types Of Windows	6
II	False Ceiling	6
III	Types Of Kitchen Platform	6
IV	Wooden Joinery	6
V	Staircases	6
VI	Services – Electrification	10
VII	Services - Plumbing	10
VII	Services – Air Conditioning	10

Learning resources:

- 1) Building Construction by Sushilkumar
- 2) Engineering Material by Rangwala

F. Y. B.Voc Interior Design. Semester II

BID- 150	Residential Design (Major-Practical)	Credits: 02 Hours : 60
Course Outcome (COs) On completion of the course, the students will be able to:		Bloom's cognitive level
CO1	Recall basics uses of measuring tape & working out the civil layout.	1
CO2	Explain the brief for building drawing and workout all details of building drawing.	2
CO3	Examine the different residential aspects of design with Living room design, Kitchen, dining zone & Master bedroom with toilet.	3
CO4	Analyze the 2bhk space & produce the set of drawings which are useful for presentational purpose as well as execution purpose	4

Unit No	Title of Unit and Contents	No of Practicals
I	Measuring Spaces.	2
II	Building Drawing	2
III	Designing Living Room	14
IV	Designing Kitchen & Dining	14
V	Designing Master Bedroom With Toilet	14
VI	Designing 2 B H K	14

Learning Resources:

1. Interior Designing Drawing By Alan Huges

F. Y. B.Voc Interior Design . Semester II		
BID-161	Residential Theory of Design (Minor –Theory)	Credits: 02 Hours : 30
Course Outcome (COs) On completion of the course, the students will be able to:		Bloom's cognitive level
CO1	State The History of Interior design with Fundamentals of the Commercial space design.	1
CO2	Classify Design Trends & Future considering Human factors & Psychology of design.	2
CO3	Examine Furniture ,Art & Accessories for the commercial projects with respect to Color, Light & Texture.	3
CO4	Detect the need of Products, Furniture Designs & Ergonomics in recent society & work on Sustainable Interiors.	4

Unit	Topic	No. of Lectures
I	1.Space – Living Room	6
II	2. Space – Kitchen & Dining Room	6
III	3.Space – Master Bedroom	6
IV	4.Space - Toilet	6
V	5.Space – Children Bedroom	6

Learning resources:

1. Theory of Design by Lucas Baker
2. Suggestions in Design by John Leighton.
3. Bases of the design by Crane, Walter.

F. Y. B.Voc Interior Design. Semester II

BID-170	Theory of Interior Design (OE-4)	Credits: 02 Hours : 30
Course Outcome (COs) On completion of the course, the students will be able to:		Bloom's cognitive level
CO1	State The Fundamentals of the Commercial space design.	1
CO2	Classify Design Trends & Furniture considering Human factors & Psychology of design.	2
CO3	Examine Furniture ,Art & Accessories for the commercial projects with respect to Color, Light & Texture.	3
CO4	Detect the need of Products, Furniture Designs & Ergonomics in recent society & work on Sustainable Interiors.	4

Unit No.	Title of Unit and Contents	No. of lectures
I	Anthropometric Data & Furniture Design	6
II	Motif Adaptation	6
III	Furniture Adaptation In Contemporary Interiors	6
IV	Furniture Design in Historical Styles	6
V	Colors And Its Impact On The Foreground And Background	6

Learning resources:

1] Time Saver Standards : Interior Graphic & Design Standards by S S Reznikoff

F. Y. B.Voc Interior Design. Semester II		
BID-171	Role of Measurements, Conversion & Quantification (OE-3)	Credits:02 Hours : 30
Course Outcome (COs) On completion of the course, the students will be able to:		Bloom's cognitive level
CO1	List different types of Measurement Units.	1
CO2	Discuss different Conversion methods & study.	2
CO3	Calculate the rate of the furniture with Rate analysis..	3
CO4	Identify the different quantities of residential Interior project and workout the Estimation.	4

Unit No	Title of Unit and Contents	No of Lectures
I	Study of Different units of the measurements.	2
II	Study of the different Conversions of the different units.	3
III	Study of Rate analysis of the different items in the Interior project.	10
IV	Study of the different quantities, rates and workout the complete Estimation of the Residential Interior Project.	15

Learning Resources:

1.Estimating And Costing For Interior Designs By Diana Alison

F. Y. B.Voc Interior Design. Semester II		
BID-180	CAD Projects (VSC-2)	Credits: 02 Hours : 30
Course Outcome (COs) On completion of the course, the students will be able to:		Bloom's cognitive level
CO1	State all remaining types of commands in Autocad .	1
CO2	Classify different commands as per their usage for different purposes with Building drawing.	2
CO3	Examine the remaining technics with first residential project.	3
CO4	Detect the important technics of drafting by using different methods & making different objects for executorial level residential projects with the help of 3D software.	4

Unit No.	Title of Unit and Contents	No. of lectures
I	Furniture Detail – I	4
II	Furniture Detail – II	4
III	Furniture Detail – III	4
IV	Building Drawing	6
V	Living Room	6
VI	Kitchen & Dining Room	6

Learning resources:

1. Autocad 14 Instant Reference By George Omura
2. Mastering Autocad Civil 3d 2015 By Cyndy Davenport

F. Y. B.Voc Interior Design. Semester II

BID-190	Visualization Techniques (SEC-2)	Credits: 02 Hours : 30
Course Outcome (COs) On completion of the course, the students will be able to:		Bloom's cognitive level
CO1	Recall all basic technics for next level visualization technic	1
CO2	Expalin3D objects with different types by making 3D craft objects to improvise the 3D visualization.	2
CO3	Examine the Furniture as an object & use 3D technics to draw it.	3
CO4	Analyze different spaces through 2D (Plan) & 3D (Isometric view) techniques and complete it by Manual method.	4

Unit No.	Title of Unit and Contents	No. of lectures
I	Furniture Object Making	6
II	Living Room Perspective	6
III	Kitchen Perspective	6
IV	Bedroom Perspective	6
V	Children Bedroom Perspective	6

Learning resources:

1.Interior Designing Drawing By Alan Huges