

Daffodil Polytechnic Institute, Institute Code: 50238 Lesson Plan – Academic session: (April 2022 to August 2022)

Subject Teacher : Lima Akter (Jr. Instructor)
Subject Name : Furniture Design and Drawing

Subject Code : 68773

Technology : Architecture & Interior Design Technology.

Semester : 7th

BTEB Text Book Name : Furniture Design and Drawing (Publisher: Haque Prokashani)

Reference Book Name : Time-Saver Standers for Interior Design and Space Planning. - By: Joseph De Chiara

Subject Aims:

After completion of the course students will be able to:

- Understand the history of the furniture.
- Know the furniture style.
- ❖ Learn about the design criteria of furniture's and cabinets.
- Understand the design & development of furniture.
- Understand the rendering process of furniture.
- Can see the molding, fasteners and gluing, clamping.
- Develop knowledge, skill and attitude of preparing different types of house furniture's.

Short Description

After Studying this subject student will know about:

- Furniture in detail by studying this subject such as Historic furniture for interior design
- Furniture style
- Furniture & cabinets;
- Design & development of furniture;
- Process of design work;
- Rending of furniture;
- molding, fasteners and gluing,
- clamping & fasteners;
- plywood;

Marks	Grade Point	Letter Grade	Marks	Grade Point	Letter Grade
80>	4.00	A+	55-59	2.75	B-
75-79	3.75	Α	50-54	2.50	C+
70-74	3.50	A-	45-49	2.25	С
65-69	3.25	B+	40-44	2.00	D
60-64	3.00	В	0-39	0.00	F

Mark Distribution (for 150 Marks)					
Theory	Marks	Practical Marks			
Midterm	20	PC	50		
Class test	10	PF	50		
Quiz test	10	-	•		
Final	60	-	-		
Total	100	Total	100		

Class Timing Distribution						
Particulars	Time					
Greeting with students	05 Minutes					
Previous Class Review	05 Minutes					
Present Class Topic Discussion and Lecture Delivery	30 Minutes					
Present Class Topics Review	05 Minutes					

• contemporary materials Glass, Cane, Steel, Fiber Glass, Plastic Materials.

Date	Lecture	Chapter/ Exam / Industrial Visit	Learning Area	Learning Outcome	Class/Lab Supporting Equipment's
	01 (Theory class)	Chapter-01 Understand the historical furniture for interior design.	1.1 Discuss the importance of historical furniture in interior design.1.2 Describe the principle periods of English furniture.	After the Class, Students will be able to: • Know about furniture history in interior design. • Know about English furniture principle period.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System YouTube Link: https://www.youtube.com/watch?v=u6CNokOXXPY
	02 (Theory class)	Chapter-01 Understand the historical furniture for interior design.	1.3 Describe the principle periods of French furniture. 1.4 Describe the principle periods of American furniture.	After the Class, Students will be able to: Gain knowledge about principle period of American and French furniture.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System YouTube Link: https://www.youtube.com/watch?v=jSA-2lefSeM
	03 (Theory class)	Chapter-01	Chapter-1	Regarding student problem.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System
	04 (Practical class)	Class Test-01	Examination Topic: Chapter 01 Examination mark: 10 Passing Mark: 08	After the exam Students will be able to: • Solve chapter 1 all topics .	 Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System Exam khata

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	05 (Practical class)	Chapter-01 Perform different types of furniture making joint	1.1 Prepare a butt joint by use of wood.1.2 Make an edge joint by use of wood.	After the Class, Students will be able to: • Prepare a butt and edge joint by using wood.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System YouTube Link: https://www.youtube.com/watch?v=NUIY1tT_7kQ
	06 (Practical class)	Chapter-01 Perform different types of furniture making joint	1.3 Prepare a rabbit joints by use of wood.1.4 Prepare a dado joints by use of wood.	After the Class, Students will be able to: • Prepare a rabbit and dado joints by using wood.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System YouTube Link: https://www.youtube.com/watch?v=CATempOh CE
	07 (Practical class)	Chapter-01 Perform different types of furniture making joint	1.5 Draw a lap joints by use of wood.	After the Class, Students will be able to: • About lap joint and prepare it using wood.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System YouTube Link: https://www.youtube.com/watch?v=Tkc99JJwZcE
	08	Chapter-01 Review class	Chaoter -1(practical based)	Regarding student problem.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System

Date	Lecture	Chapter/ Exam / Industrial Visit	Learning Area	Learning Outcome	Class/Lab Supporting Equipment's
	09 (Theory class)	Quiz Test-01	Examination Topic: Chapter 01 (practical based) Examination mark: 10 Passing Mark: 08	After the quiz test student will be able to justify himself\herself.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System • Exam khata
	10 (Theory class)	Chapter-02 Understand the furniture style.	2.1 List the major three categories furniture which are used for Residential Building. 2.2 Mention the traditional style of furniture.	After the Class, Students will be able to: • Know about furniture categories of residential building. • Know about traditional style of furniture.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System YouTube Link: https://www.youtube.com/watch?v=tKUom8zXCYk
	11 (Practical class)	Chapter-02 Perform the sketching of molding & fasteners.	2.1 Sketch different types of molding.	After the Class, Students will be able to: • Draw various types of molding.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System YouTube Link: https://www.youtube.com/watch?v=cQsljJUJVhM
	12 (Theory class)	Chapter-02 Understand the furniture style.	2.3 Mention the provincial style of furniture. 2.4 Mention the contemporary style of furniture.	After the Class, Students will be able to: • Learn about provincial and contemporary style of furniture.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System YouTube Link: https://www.youtube.com/

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					watch?v=K9pXMeoeVxc
	13 (Practical class)	Chapter-02 Perform the sketching of molding & fasteners.	2.2 Sketch different types of nails with their dimension. 2.3 Prepare different types of head screws with their dimension. 2.4 Draw different types of hardware & fasteners.	After the Class, Students will be able to: • Draw different types of nails, head screws, hardware & fasteners with their dimension.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System YouTube Link: https://www.youtube.com/watch?v=ePTsxvCMwHw
	14 (Theory class)	Chapter-02 Understand the furniture style.	2.5 Describe formal and informal furniture styles.2.6 Describe the Queen Anne style of furniture and its characteristics.	After the Class, Students will be able to: • Learn about formal & informal furniture style.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System YouTube Link: https://www.youtube.com/watch?v=SbauHTxw4Gs
	15 (Practical class)	Class Test-02	Examination Topic: Chapter 02 Examination mark: 10 Passing Mark: 08	After the exam Students will be able to: Problem solving chapter 2 related all topics.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System • Exam khata
	16 (Practical class)	Chapter-03 Perform the drawing of chair & sofa of the periodic furniture style (18th century American: Federal)	3.1 Sketch the different types of armless chair 3.2 Sketch the different types of armchair.	After the Class, Students will be able to: • Draw various arm & armless chair.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System YouTube Link: https://www.youtube.com/watch?v=w8VYXXTeXOI

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	17 (Theory class)	Chapter-03 Understand the design criteria of furniture's.	3.1 List the fundamentals of good design of furniture.3.2 List the elements of design for furniture.	After the Class, Students will be able to: • Know about design element of furniture.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System YouTube Link: https://www.youtube.com/ watch?v=bfG-lbylf1M
		Architectural site visit.	It will help the student to develop	their design consideration.	
	18 (Practical class)	Chapter-03 Perform the drawing of chair & sofa of the periodic furniture style (18th century American: Federal)	3.3 Prepare different types of sofa 3.4 Draw an isometric view of an armchair.	After the Class, Students will be able to: • Draw isometric view of sofa and armchair.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System YouTube Link: https://www.youtube.com/ watch?v=Or-rOJq7IME https://www.youtube.com/ watch?v=LB4iBow1Y1Q
	19 (Theory class)	Chapter-03 Understand the design criteria of furniture's.	3.3 Mention the principle of design for furniture.3.4 Discuss the common error in design.3.5 Mention the steps in designing furniture.	After the Class, Students will be able to: • Understand the common error in design and principle of design for furniture.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System
	20 (Theory class)	Quiz Test-02	Examination Topic: Chapter 02 & 03	After the quiz test student will be able to justify himself\herself.	Drafting Board, Pencil, Set Square, Triangular Scale,

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			Examination mark: 10 Passing Mark: 08		Steel Scale, French Curve, PC, Sound System
	21 (Practical class)	Chapter-04 Perform the drawing of bed, chest of drawer & table of the periodic furniture style (18th century American: Federal).	4.1 Sketch the different types of bed (such as four poster bed by Phyfe, bed by Phyfe French influence).	After the Class, Students will be able to: • Draw various kinds of bed.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System YouTube Link: https://www.youtube.com/ watch?v=hCJo_JL-Jo4
	22 (Practical class)	Chapter-04 Perform the drawing of bed, chest of drawer & table of the periodic furniture style (18th century American: Federal).	4.2 Sketch the different types of sideboards, chest of drawers.4.3 Prepare different types of Dining table	After the Class, Students will be able to: • Draw various kinds of sideboards, chest of drawers and dining table.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System YouTube Link: https://www.youtube.com/ watch?v=vuhcoXfpZg8
	23 (Theory class)	Chapter-04 Understand design & development of furniture.	4.1 Discuss the development and progress of furniture.4.2 Describe the scientific and artistic qualities of furniture.	After the Class, Students will be able to: • Know about the scientific and artistic qualities of furniture.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System
	24 (Theory class)	Chapter-04 Understand design & development of furniture.	4.3 Describe the criteria for the selection of materials. 4.4 Describe the economy of furniture.	After the Class, Students will be able to: • Understand the economy of furniture.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System

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	25 (Practical class)	Chapter-04 Understand design & development of furniture.	4.4 Draw a console table. 4.5 Draw an isometric view of Dining table.	After the Class, Students will be able to: • Draw a console table and an isometric view of Dining table.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System YouTube Link: https://www.youtube.com/watch?v=Or-rOJq7IME
	26 (Practical class)	Review class	Chapter 1 to Chapter 4 (Regarding students problem)	1. problem solving	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System
	27 (Practical class)	Presentation	Slide presentation on the architectural site visit.	With developing architectural design consideration, Communication and presentation skill will be developed.	PC and Projector.
	28 (Theory class)	Chapter-05 Understand the rendering process of furniture.	5.1 Describe the importance of rendering of furniture. 5.2 Describe the necessity of modeling of furniture. 5.3 State the necessity of detail drawing of the furniture. 5.4 Mention the use of color scheme of furniture.	After the Class, Students will be able to: • Know about the importance of detail drawing of the furniture. • Understand the necessity of modeling of furniture	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System
	29 (Practical class)	Chapter-05 Perform the drawing of chair & sofa of the periodic furniture style	5.1 Sketch the different types of chair 5.2 Sketch the different types of armchair.	After the Class, Students will be able to: • Draw various kinds of chair and armchair.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System YouTube Link: https://www.youtube.com/

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	30 (Practical class)	Chapter-05 Perform the drawing of chair & sofa of the periodic furniture style	5.3 Prepare different types of sofa.5.4 Draw an isometric view of a sofa.	After the Class, Students will be able to: • Draw various kinds of sofa.	watch?v=w8VYXXTeXOI Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System YouTube Link: https://www.youtube.com/ watch?v=3WKRCo4UQJY		
	31 (Theory class)	Chapter-06 Understand the plywood.	6.1 Mention the general features of plywood.6.2 Mention the advantages of plywood.6.3 Describe the dimensions of plywood.	After the Class, Students will be able to: • Understand the advantage of plywood. • Know about the general feature of plywood.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System YouTube Link: https://www.youtube.com/watch?v=1y76tWBCgFQ		
	32 (Theory class)	Chapter-06 Understand the plywood.	6.4 Mention the use of nails and screws in plywood. 6.5 Describe the process of the removing nails from plywood. 6.6 Describe the contemporary materials Glass, Cane, Steel, Fiber Glass, and Plastic Materials.	After the Class, Students will be able to: • Learn in detail about the contemporary materials Glass, Cane, Steel, Fiber Glass, and Plastic Materials. • Importance of nails and screw in plywood	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System		
	Mid Term						
	33 (Practical class)	Chapter-06 Perform the drawing	6.1 Sketch the Four-poster and canopy beds	After the Class, Students will be able to:	Drafting Board, Pencil, Set Square, Triangular Scale,		

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		of bed, chest of drawer & table of the periodic furniture	6.2 Sketch the different types of secretary desk Examination	Draw the different types of secretary desk and beds.	Steel Scale, French Curve, PC, Sound System
		style (18th century American			YouTube Link: https://www.youtube.com/ watch?v=hQl5aD6kHqg
	Architectural site visit.	It will help the s	tudent to develop thei	r design consideration.	
	34 (Practical class)	Class Test-03	Topic: Chapter 05 & 06 Examination mark: 10 Passing Mark: 08	After the exam Students will be able to: Problem solving chapter related all topics.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System Exam khata
	35 (Practical class)	Chapter-06 Perform the drawing of bed, chest of drawer & table of the periodic furniture style (18th century American	6.3 Prepare different types of Dining table.6.4 Draw an isometric view of the Four-poster bed.	After the Class, Students will be able to: • Draw dining table and four poster bed.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System YouTube Link: https://www.youtube.com/ watch?v=LpPoAay0aE4
	36 (Theory class)	Chapter-07 Understand molding and fasteners.	7.1 List the common molding patterns.7.2 Mention the uses of common molding patterns.7.3 Mention two major purposes of fasteners.	After the Class, Students will be able to: • Learn about molding patterns in detail.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System YouTube Link:

Date	Lecture	Chapter/ Exam / Industrial Visit	Learning Area	Learning Outcome	Class/Lab Supporting Equipment's
	37 (Theory class)	Chapter-07 Understand molding and fasteners.	7.4 Describe the uses of nail and screw. 7.5 Describe the advantages of screws as compared with nails. 7.6 List different types of equipment used in molding.	After the Class, Students will be able to: • Know the uses of nail and screw. • Know about different types of equipment used in molding.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System
	38 (Theory class)	Quiz Test-03	Examination Topic: Chapter 06 & 07 Examination mark: 10 Passing Mark: 08	After the quiz test student will be able to justify himself\herself.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System Exam khata
	39 (Practical class)	Chapter-07 Perform the sketching of the historical furniture style	7.1 Sketch the different forms of the foot hoof. 7.2 Sketch the pad trifold & slipper.	After the Class, Students will be able to: • Draw the different forms of the foot hoof. • Sketch the pad trifold & slipper.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System YouTube Link: https://www.youtube.com/ watch?v=eSOMMwF9uFM
	40 (Practical class)	Chapter-07 Perform the sketching of the historical furniture style	7.3 Sketch scroll tops on chests. 7.4 Draw scalloped shells on knees of legs and crests of chairs.	After the Class, Students will be able to: • Draw scalloped shells on knees of legs and crests of chairs.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System

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	41 (Theory class)	Chapter-08 Understand the gluing and clamping.	 8.1 Describe gluing and clamping. 8.2 List the factors for selecting different kind of adhesive. 8.3 Describe the moisture content of wood affect its gluing properties. 	After the Class, Students will be able to: • Learn about gluing and clamping in detail.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System
	42 (Practical class)	Chapter-08 Perform the drawing of modern residential furniture	8.1 Sketch the different types of revolving chair. 8.2 Sketch the different types of table.	After the Class, Students will be able to: • Draw the different types of revolving chair and beds.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System YouTube Link: https://www.youtube.com/watch?v=vj9q_LhgK54
	43 (Practical class)	Chapter-08 Perform the drawing of modern residential furniture	8.3 Make a work station. 8.4 Draw an isometric view of an executive chair.	After the Class, Students will be able to: • draw an isometric view of an executive chair.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System YouTube Link: https://www.youtube.com/ watch?v=q1l8njsxYW8&list= RDq1l8njsxYW8&start_radio =1&t=0
	44 (Practical class)	Class Test-04	Examination Topic: Chapter 07, 08 Examination mark: 10 Passing Mark: 08	After the exam Students will be able to: Problem solving chapter related all topics.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System

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	45 (Practical class)	Chapter-09 Perform the drawing of modern cabinet.	9.1 Sketch the different types of sofa. 9.2 Prepare different types of bed.	After the Class, Students will be able to: • Draw the different types of sofa & bed.	Exam khata Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System
	46 (Theory class)	Chapter-08 Understand the gluing and clamping	8.4 Describe different kinds of adhesive.8.5 List the common clamping devices.8.6 Describe gluing procedure.	After the Class, Students will be able to: • Understand the gluing procedure.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System
	47 (Practical class)	Chapter-09 Perform the drawing of modern residential furniture.	9.3 Make a 6 (six) person dining table.9.4 Draw an isometric view of a TV display unit.	After the Class, Students will be able to: • Draw an isometric view of a TV display unit.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System YouTube Link: https://www.youtube.com/watch?v=ADHlyRAwMyc
	48 (Theory class)	Quiz Test-04	Examination Topic: Chapter 08,09 Examination mark: 10 Passing Mark: 08	After the quiz test student will be able to justify himself\herself.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System Exam khata
	49 (Practical class)	Chapter-10 Perform the drawing of modern cabinet.	10.1 Sketch the different types of office cabinet.10.2 Sketch the different types of residential cabinet.	After the Class, Students will be able to: Draw	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System

Date	Lecture	Chapter/ Exam / Industrial Visit	Learning Area	Learning Outcome	Class/Lab Supporting Equipment's
			10.3 Make a kitchen cabinet. 10.4 Draw an isometric view of a side table.	 different types of office cabinet. different types of residential cabinet. a kitchen cabinet. 	YouTube Link: https://www.youtube.com/ watch?v=cw6PP3dxl1s
	50 (Practical class)	Review class	Chapter 1 to Chapter 8 (Regarding students problem)	1. problem solving	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System
	51 (Practical class)	Presentation	Presentation on the final project.	Commutation and presentation skill will be developed.	PC and Projector.
Final exam					