

Daffodil Polytechnic Institute, Institute Code: 50238

Lesson Plan – Academic session: February to July 2026

Subject Teacher : Nishat Akter Munia
 Subject Name : Architectural Design-1
 Subject Code : 26121
 Technology : Architecture Technology.
 Semester : 2nd
 BTEB Text Book Name : Architectural Design-1 (Publisher: Haque Prokashani)
 Reference Book Name : Basic Architectural Design - Bert Bielefeld

Subject Aims:

After completion of the course students will be able to:

- ❖ To be able to understand the fundamental of air condition.
- ❖ To be able to understand the construction procedure of air condition system.
- ❖ To be able to understand the fundamental of architectural acoustics.
- ❖ To be able to prepare materials schedule, cost and development process.

Subject Outcome: (Theoretical)

After undergoing the subject, students will be able to:

- ❖ Understand Architectural terminology.
- ❖ Familiar with Building components.
- ❖ Explain Plan, Elevation, and Section.
- ❖ Explain Different circulations.
- ❖ Describe Design principals.

Subject Outcome: (Practical)

After undergoing the subject, students will be able to:

- ❖ Draw Architectural Drawing.
- ❖ Draw Plan, Elevation, Section.
- ❖ Draw detail drawings.
- ❖ Design single room house.
- ❖ Draw Building component.
- ❖ Draw and Differentiate the Similar terms of building.

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

Class Timing Distribution	
Particulars	Time
Greeting with students	05 Minutes
Previous Class Review	10 Minutes
Present Class Topic Discussion and Lecture Delivery	60 Minutes
Present Class Topics Review	10 Minutes
Next Class Topic	5 Minutes

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

Lecture	Chapter/ Exam / Industrial Visit	Learning Area	Learning Outcome	Class/Lab Supporting Equipments
01	Chapter-01 Architectural Terminology	- State Plan, Elevation, Section. - Describe Single line and Double line diagram. - List the name of different drawing.	After the Class, Students will be able to: Learn about the definition & example of Plan, Elevation , Section.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System, Mobile with internet connection. YouTube Link: https://www.youtube.com/watch?v=pzKHy5RFBao
02	Chapter-01 PERFORM ARCHITECTURAL DRAWING	1.1 Draw a single room plan by single line. 1.2 Draw a single room plan by double line showing door and Window. 1.3 Prepare a presentation drawing of the room.	After the Class, Students will be able to: Learn about the Differences among different lines and draw them physically.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System, Mobile with internet connection. YouTube Link: https://www.youtube.com/watch?v=Q5stjqNSZ4k
03	Chapter-01 Architectural Terminology	- Explain Presentation drawing. - Explain Working drawing.	After the Class, Students will be able to: Know about the Presentation & Working Drawing.	
4	Class Test - 1	Chapter 1 (Theory Based) Examination Topic: Chapter 01 Examination mark: 10 Passing Mark: 08	After the class test students will be able to justify himself\herself.	

Lecture	Chapter/ Exam / Industrial Visit	Learning Area	Learning Outcome	Class/Lab Supporting Equipments
6	Chapter-01 PERFORM ARCHITECTURAL DRAWING	1.1 Prepare a working drawing of the room with dimensions. 1.2 Draw four sides elevation of the room. 1.3 Draw a long section of the room with symbol and dimension. 1.4 Draw a cross section of the room with symbol and dimension.	After the Class, Students will be able to: • Draw Plan and Elevation of room.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System, Mobile with internet connection. YouTube Link: https://www.youtube.com/watch?v=Pyaw8ivOz6Q
Assignment -01	Chapter 1	Draw Single & Double line plan of Residential Building		
7	Quiz Test - 1	Examination Topic: Chapter 01 Examination mark: 10 Passing Mark: 08 Chapter 2 (Practical Based)	After the quiz test students will be able to justify himself\herself.	
8	Chapter-01 Architectural Terminology	• Explain Shop and As-built drawing. • Describe Site.	After the Class, Students will be able to: Learn about the as built drawing & Site in detail.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System, Mobile with internet connection. YouTube Link: https://www.youtube.com/watch?v=K88yVPhtlxl
	Chapter 2: DRAWING OF PLAN	2.1 Copy a Ground floor plan of a given small residential building. 2.2 Draw a Typical floor plan of the given building with dimensions	After the Class, Students will be able to: Know about ground & Typical floor plan of a residential building.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System, Mobile with internet connection.

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				YouTube Link: https://www.youtube.com/watch?v=A_4b36KG_aw
9	Chapter -02: Different Building Components	Define Ground Level (G.L.), Plinth Level (P.L.)	After the Class, Students will be able to: Become familiar with different building component.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System, Mobile with internet connection. YouTube Link: https://www.youtube.com/watch?v=cMIVvu_IB1A
11	Review Class	Regarding student problem	Student can solve their respective topic problem.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System, Mobile with internet connection.
12	Class Test - 2	Examination Topic: Chapter 01 Examination mark: 10 Passing Mark: 08 Chapter 2 (Theory Based)	After the quiz test students will be able to justify himself\herself.	
13	Chapter -02: Different Building Components	2.1 Define the different Structural Terms: Sub structure, Super structure, Foundation, Footing, Column, Beam and Wall.	After the Class, Students will be able to: Learn about the building component (Substructure, super structure, Beam, column, Foundation, Footing etc)	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System, Mobile with internet connection.

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				YouTube Link: https://www.youtube.com/watch?v=FFo-KeX_AAk
14	Chapter 2: OF DRAWING PLAN	2.1 Draw a Presentation plan of the building. 2.2 Draw a Roof plan of the building with dimensions.	After the Class, Students will be able to: Design roof plan.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System, Mobile with internet connection. YouTube Link: https://www.youtube.com/watch?v=sn2R1-ZnzgQ
15	Quiz Test - 2	Examination Topic: Chapter 01 Examination mark: 10 Passing Mark: 08 Chapter 4 (Practical Based)	After the quiz test student will be able to justify himself\herself.	
16	Chapter -02: Different Building Components	Floor, Ceiling, False slab, False ceiling, Loft. Sill, Window sill, Lintel, Sunshade, Drip course. Roof, LC, Parapet, Cornice, Coping. Railing, Hand rail, Skirting, Dado.	After the Class, Students will be able to: Become familiar with different building components.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System, Mobile with internet connection. YouTube Link: https://www.youtube.com/watch?v=3HtC6amKxyA
17	Chapter 3: OF DRAWING ELEVATION	3.1 Draw the North elevation of the building. 3.2 Draw South elevation of the building. 3.3 Draw East elevation of the building.	After the Class, Students will be able to: Able to draw Elevation of Front, Back and side of a building.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System, Mobile with internet connection.

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				YouTube Link: https://www.youtube.com/watch?v=olwQh1NOfhE
Assignment -02	Chapter 2 & 3	Draw 4 side elevation of a Residential Building		
18	Chapter -02: Different Building Components	2.1 Define the different building components: Opening, Door, Window. Ventilator, Sun Light (S.L.), Sky Light. Porch, Portico. Duct, Garbage duct, Air-well, Light-well.	After the Class, Students will be able to: Become familiar with different building components.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System, Mobile with internet connection. YouTube Link: https://www.youtube.com/watch?v=XCXGMQ9p2Zw
19	Chapter 3: OF DRAWING ELEVATION	3.1 Draw West elevation of the building. 3.2 Draw an elevation of any angular surface. 3.3 Draw an elevation of any curved surface.	After the Class, Students will be able to: Able to draw the elevation of a curved surface.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System, Mobile with internet connection. YouTube Link: https://www.youtube.com/watch?v=yMyGu9h0JcE
20	Review Class	Chapter 1 to Chapter 3 (Regarding students problem)	1. Problem Solving	
21	Chapter -02: Different Building Components	Penthouse, Tiles, Mosaic, Terrazzo, Offset, Punch, Groove line, pergola, verandah, balcony, terrace,	After the Class, Students will be able to:	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System, Mobile with internet connection.

Lecture	Chapter/ Exam / Industrial Visit	Learning Area	Learning Outcome	Class/Lab Supporting Equipments
		corbel, louver, projection wall, vault, dome.	Become familiar with different building components and technical terms.	YouTube Link:
22	Chapter 4: DRAWING SECTION OF	4.1 Draw a longitudinal section of the building with detail Dimensions. 4.2 Draw a transverse section of the building with detail dimensions.	After the Class, Students will be able to: Draw the detail section of an object or plan.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System, Mobile with internet connection. YouTube Link: https://www.youtube.com/watch?v=86ZLwTvBgw0
Assignment -03	Chapter 3 & 4	Draw Longitudinal and transverse section of a Building		
23	Chapter 03: Plan	3.1 Define Plan. 3.2 Describe the necessity of plan.	After the Class, Students will be able to: learn about the importance of Plan.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System, Mobile with internet connection. YouTube Link:
24	Class Test - 3	Chapter 3 (Theory Based) Examination Topic: Chapter 01 Examination mark: 10 Passing Mark: 08	After the quiz test student will be able to justify himself\herself.	
25	Chapter 4: DRAWING SECTION OF	4.1 Draw a partial section of the building with detail dimensions. 4.2 Draw a sectional elevation of the building with detail dimensions.	After the Class, Students will be able to: Can draw a partial section with dimension.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System, Mobile with internet connection.

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				YouTube Link: https://www.youtube.com/watch?v=XdaOZh6PAbo
Mid Term Exam				
26	Chapter 03: Plan	3.1 List the name of different Floor Plan: Ground Floor Plan, Typical Floor Plan, Basement Floor Plan, Semi Basement Floor Plan, Mezzanine Floor Plan, Describe the different Roof plan -Flat roof, Slope/ Pitched roof, Curved roof. State Lay-out Plan, Trench Plan, Site Plan, Master Plan.	After the Class, Students will be able to: Learn about Layout plan, Site plan & Master plan.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System, Mobile with internet connection. YouTube Link:
27	Quiz Test - 3	Examination Topic: Chapter 01 Examination mark: 04 Passing Mark: 08 Chapter 8 (Practical Based)	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, Mobile with internet connection.
28	Chapter 5: DRAWING OF BUILDING COMPONENT.	5.1 Draw the sectional view of G.L. and P.L showing steps.	After the Class, Students will be able to: Draw sectional view of sunshade, Parapet & roof.	Drafting Board, Pencil, Set Square, Triangular Scale,

Lecture	Chapter/ Exam / Industrial Visit	Learning Area	Learning Outcome	Class/Lab Supporting Equipments
		5.2 Draw the sectional view of parapet showing roof, cornice, coping. 5.3 Draw the sectional view of lintel with sunshade showing drip course. 5.4 Make a section of a false slab. 5.5 Draw a plan and elevation of a wall showing punch and offset		Steel Scale, French Curve, PC, Sound System, Mobile with internet connection. YouTube Link: https://www.youtube.com/watch?v=ecTk6szWBkg
Assignment -04	Chapter 5 & 6	Draw various types of building Component from G.L. to Parapet wall		
29	Chapter 4: Elevation	4.1 Define Elevation. 4.2 State the necessity of elevation. 4.3 Explain different Side (North, South, East, West) Elevation. 4.4 Explain Angular elevation. Explain Special Type of elevation.	After the Class, Students will be able to: • Learning about the side Elevation.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System, Mobile with internet connection.
30	Chapter 6: DRAW AND DIFFERENTIATE THE SIMILAR TERMS OF BUILDING.	6.1 Draw a passage and a corridor from a given plan showing the difference between them. 6.2 Draw a lobby and a foyer from a given plan showing the difference between them	After the Class, Students will be able to: • Learning about the vertical circulation of a building.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System, Mobile with internet connection. YouTube Link: https://www.youtube.com/watch?v=5L8T1bFu8wM

Lecture	Chapter/ Exam / Industrial Visit	Learning Area	Learning Outcome	Class/Lab Supporting Equipments
31	Class Test - 4	Examination Topic: Chapter 04 Examination mark: 10 Passing Mark: 08 Chapter 5 (Practical Based)	Can identify different sources of noise.	
32	Chapter SECTION 05:	5.1 Define Section. 5.2 State the necessity of section. 5.3 Explain different sections (longitudinal/long, cross section). 5.4 Explain transverse section (section) 5.5 Explain partial section (part section) 5.6 Explain sectional elevation. Explain floor height and room height.	After the Class, Students will be able to: Learning about the Partial & Detail section of a floor.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System, Mobile with internet connection. YouTube Link: https://www.youtube.com/watch?v=JghCERYrh9g
33	Quiz Test -4	Chapter 10 (Practical Based) Examination Topic: Chapter 01 Examination mark: 10 Passing Mark: 08	After the quiz test student will be able to justify himself\herself. Can understand the fundamentals of Plan, Elevation,	
34	Chapter 6: DRAW AND DIFFERENTIATE THE SIMILAR TERMS OF BUILDING.	6.3 Draw a lanai and a deck from a given plan showing the difference between them. 6.4 Draw a courtyard and a lightwell from a given plan showing the difference between them.	After the Class, Students will be able to: Learn about the courtyard and lightwall.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System, Mobile with internet connection. YouTube Link:

Lecture	Chapter/ Exam / Industrial Visit	Learning Area	Learning Outcome	Class/Lab Supporting Equipments
Assignment -05	Chapter 6	Draw horizontal circulation of a building.		
	Chapter 6: Design Principles In Architecture	6.1 Define Art and Architecture. 6.2 Define design. 6.3 Describe the necessity of design in Architecture. 6.4 Describe design principles in Architecture. 6.5 Define formal and informal design. Define creative and technical design.	After the Class, Students will be able to: Learn about the principles of Architecture.	
	Chapter 6: DRAW AND DIFFERENTIATE THE SIMILAR TERMS OF BUILDING.	6.3 Draw verandah, balcony and terrace from a given plan showing the difference between them. 6.4 Draw a projection wall and a louver from a given plan showing the difference between them.	After the Class, Students will be able to: Learn about the Horizontal Circulation of a building.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System, Mobile with internet connection. YouTube Link:
	Chapter 7: Different Types Of Circulation	7.1 List the types of circulation. 7.2 Vertical circulations (stair, escalator, ramp, elevator) 7.3 Horizontal circulations (passage, corridor, lobby, foyer, lanais, deck, courtyard.)	After the Class, Students will be able to: Learn about both Vertical & Horizontal Circulation of a building.	
35	Presentation	1. Slide presentation on the 2 nd architectural site visit.	Make the students believe that they can be a great professional in their field and give them confidence.	

Lecture	Chapter/ Exam / Industrial Visit	Learning Area	Learning Outcome	Class/Lab Supporting Equipments
36	Review Class	Regarding student problem	Students can solve their respective topic problem.	
Final Exam				