

Daffodil Polytechnic Institute, Institute Code: 50238
Lesson Plan – Academic session: (August 2025 to January 2026)

Subject Teacher : Shanta Islam (Instructor)
 Subject Name : Architectural Design-III
 Subject Code : 26141
 Technology : Architecture Technology
 Semester : 4th
 BTEB Text Book Name : Architectural Design-III (Publisher: Haque Prokashani)

Subject Aims:

- Students able to focus on fundamentals of architecture focusing on formulation of form and its relation with experimental quality of space.
- Students will go through a systematic approach on collecting and evaluating information in order to understand context, climatic consideration, materials and users' comfort and interpret them into design through architectural drawings.
- The course will concentrate on how to arrange functions, analyze site force data and formulate design proposals accordingly. Importance will be given on achieving innovative formal expression, structural logic and cultural considerations.
- Students will also be able to incorporate ideas on landscape design consideration, building components and service system.

Subject Outcome:

- Students will understand State shelter/shed/canopy.
- Students will now describe structural consideration for shed/canopy.
- Students will describe the religious building.
- Describe planning of the Mosque.
- Describe the design feature of a mosque.
- Explain stairs.
- Discuss Building by-laws and Building Approval.
- Describe basic terms of building by-laws about building construction act.

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

Mark Distribution (for 200 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	10 Minutes
Present Class Topic Discussion and Lecture Delivery	60 Minutes
Present Class Topics Review	10 Minutes
Next Class Topic	5 Minutes

Lecture	Chapter/Exam/Industrial Visit	Learning Area	Learning Outcome	Class/Lab Supporting Equipments
01	Chapter 01 – SHELTER/SHED/CANOPY (Theory Class)	1) Define bus stand passenger shelter/shed/canopy. 2) Explain pedestrian circulation area. 3) Discuss the supporting facilities of a passenger shed.	After the Class, Students will be able to: • Calculation of pedestrian circulation area.	1) Reference Book 2) Projector 3) Mobile with Internet Connection Lecture Video: https://www.youtube.com/watch?v=H23iVBqiljY
02	Chapter 01 – SHELTER/SHED/CANOPY (Theory Class)	1) Discuss the climatic consideration for the shed/canopy. 2) Discuss the public ergonomics for pedestrians. 3) Discuss the design idea formation of shed/canopy.	After the Class, Students will be able to: • Describe the public ergonomics for pedestrians.	• Reference Book • Projector • Mobile with Internet Connection Lecture Video: https://www.youtube.com/watch?v=maGB6nzSSd4
03	Chapter 02 – STRUCTURAL CONSIDERATION FOR SHED/CANOPY (Theory Class)	1) Discuss different type of structural systems. 2) Discuss structural expression.	After the Class, Students will be able to: • Define different types of structural systems.	• Reference Book • Projector • Mobile with Internet Connection Lecture Video: https://www.youtube.com/watch?v=8Se0Fy6dWHY
04	Class Test - 1	Examination Topic: Chapter 01 – SHELTER/SHED/CANOPY Examination mark: 10 Passing Mark: 04		1) Class Test sheet 2) Pen 3) Pencil,Scale,Eraser
05	Assignment-1	Class Lecture 01	After the Class, Students will be able to: 1) Explain pedestrian circulation area. 2)Discuss the supporting facilities of a passenger shed.	Must be submitted within one lecture.
06	Chapter 02 – STRUCTURAL CONSIDERATION	1) Explain different materials used in the shed or canopy.	After the Class, Students will be able to:	• Reference Book • Projector

	FOR SHED/CANOPY (Theory Class)	2) Explain the anchoring and joint system of wood, steel and bamboo.	Describe different materials used in a shed or canopy.	Mobile with Internet Connection Lecture Video: https://www.youtube.com/watch?v=6mAqD7Bdml
07	Chapter 03- THE RELIGIOUS BUILDING (Theory Class)	1) Define religious building. 2) Define Mosque, Church, Temple and Pagoda. 3) Discuss the design features of Mosque, Church, Temple and Pagoda. 4) Compare among the structural features of Mosque, Church, Temple and Pagoda.	After the Class, Students will be able to: 1) Describe the design features of Mosque, Church, Temple and Pagoda.	- Reference Book - Projector - Mobile with Internet Connection Lecture Video: https://www.youtube.com/watch?v=2eFlcPsNtzc
08	(Practical Class)	1) Draw the design idea formation of shed/canopy.	After the Class, Students will be able to: Design idea formation of shed/canopy.	- Reference Book - Projector - Mobile with Internet Connection Lecture Video: https://www.youtube.com/watch?v=igAB66P4Wvg
09	Quiz Test - 1	Examination Topic: Chapter 03 - THE RELIGIOUS BUILDING Examination mark: 10 Passing Mark: 04		1) Class Test sheet 2) Pen 3) Pencil,Scale,Eraser
10	Chapter 04 – PLANNING OF MOSQUE (Theory Class)	1) Define mosque. 2) Discuss the design idea for the formation of the Mosque. 3) Discuss the design aspects of prayer hall, Mimber/pulpit, mihrab, minar, dome and ablution area. 4) Describe Prayer Hall with different dimensions & allocation.	After the Class, Students will be able to: Describe the design aspects of prayer hall, Mimber/pulpit, mihrab, minar, dome and ablution area.	- Reference Book - Projector - Mobile with Internet Connection Lecture Video: https://www.youtube.com/watch?v=EU1Ox9K2wNo
11	Chapter 04 – PLANNING OF MOSQUE	1) Explain Mimber & Mihrab with dimension & allocation.	After the Class, Students will be able to:	1 Reference Book - Projector

	(Theory Class)	2) Discuss ablution area & Shan with dimension & allocation. 3) Explain the necessity of Dome & Minar at the mosque.	Discuss ablution area & Shan with dimension & allocation.	Mobile with Internet Connection Lecture Video: https://www.youtube.com/watch?v=PBVzCYpCLN0
12	(Practical Class)	1) Draw the design aspects of prayer hall, Mimber/pulpit, mihrab, minar, dome and ablution area.	After the Class, Students will be able to: 1) They know the design aspects of prayer hall, Mimber/pulpit, mihrab, minar, dome and ablution area.	- Reference Book - Projector - Mobile with Internet Connection Lecture Video: https://www.youtube.com/watch?v=Y8YBnOhoR4I
13	Class Test - 2	Examination Topic: Chapter 04 – PLANNING OF MOSQUE Examination mark: 10 Passing Mark: 04		1) Class Test sheet 2) Pen 3) Pencil, Scale, Eraser
		Mid Term		
14	Chapter 05 – DESIGN FEATURE OF A MOSQUE (Theory Class)	1) Discuss different materials used in mosques. 2) Discuss the orientation of a mosque. 3) Explain the ventilation of a mosque. 4) Explain the lighting and acoustic system of a mosque.	After the Class, Students will be able to: They know the lighting and acoustic system of a mosque.	- Reference Book - Projector - Mobile with Internet Connection Lecture Video: https://www.youtube.com/watch?v=UmEbsk-l-b4
15	Chapter 06 – STAIR & STAIRCASE (Theory Class)	1) Define stair & staircase. 2) Discuss the classification of stairs. 3) Explain the components of the stairs. 4) Discuss the consideration factors of stair design.	After the Class, Students will be able to: They know the consideration factors of stair design..	1) PC with Internet Connection and Sound System 2) Projector 3) Mobile with Internet Connection Lecture Video: https://www.youtube.com/watch?v=Bh3X1THlph8
16	Quiz Test - 2	Examination Topic: Chapter 05 DESIGN FEATURE OF A MOSQUE Examination mark: 10		1) Class Test sheet 2) Pen

		Passing Mark: 04		3) Pencil,Scale,Eraser
17	Assignment-2	Class Lecture -04: PLANNING OF MOSQUE	After the Class, Students will be able to: 1) Explain Mimber & Mihrab with dimension & allocation. 2) Discuss ablution area & Shan with dimension & allocation. 3) Explain the necessity of Dome & Minar at the mosque.	Must be submitted within one lecture.
18	Chapter 06 – STAIR & STAIRCASE (Theory Class)	1) Discuss the modern materials used in stair. 2) Discuss the consideration factors of fire escape. 3) Relate between trade and riser.	After the Class, Students will be able to: • They know the relationship between trade and risers.	• Reference Book • Projector • Mobile with Internet Connection Lecture Slide: https://www.youtube.com/watch?v=3vltc4Evb0k
19	Chapter 07 – BUILDING BY-LAWS AND BUILDING APPROVAL (Theory Class)	1) Define Building by-laws and BNBC. 2) Define RAJUK Sheet/ Building approval Sheet. 3) Explain different features of a building approval sheet.	After the Class, Students will be able to: • They know different features of a building approval sheet.	• Reference Book • Projector • Mobile with Internet Connection Lecture Slide: https://www.youtube.com/watch?v=mwAv8klSugM
20	Chapter 07 – BUILDING BY-LAWS AND BUILDING APPROVAL (Theory Class)	1) Explain FAR, MGC and Set-Back of building approval sheet. 2) Discuss RAJUK, CDA, RDA and KDA rules for Stair.	After the Class, Students will be able to: • They know RAJUK, CDA, RDA and KDA rules for Stair.	• Reference Book • Projector • Mobile with Internet Connection Lecture Video: https://www.youtube.com/watch?v=23zBfHHaj1s
21	Chapter 07 – BUILDING BY-LAWS AND BUILDING APPROVAL (Theory Class)	1) Explain the rules for Ramp, Horizontal exit, number of exits, maximum length of travel distance and railing. 2) Describe the car parking and turning radius.	After the Class, Students will be able to: • They know the car parking and turning radius.	1) Reference Book 2) Projector 3) Mobile with Internet Connection

				Lecture Video: https://www.youtube.com/watch?v=23zBfHHaj1s
22	Assignment-3	Chapter 06 – STAIR & STAIRCASE	After the Class, Students will be able to: 1) Discuss the modern materials used in stairs. 2) Discuss the consideration factors of fire escape.	Must be submitted within two lectures.
23	Chapter 08 – BUILDING BY-LAWS ABOUT BUILDING CONSTRUCTION ACT(Theory Class)	1) Define Authorized officer, fire resistance materials, fire resistance door, air well, loft, DAP, As-Built Drawing and coverage area according to RAJUK law. 2) Describe the building plan permit & Occupancy Certificate according to RAJUK law.	After the Class, Students will be able to: • They know the building plan permit & Occupancy Certificate according to RAJUK law.	• Reference Book • Projector • Mobile with Internet Connection Lecture Video: https://www.youtube.com/watch?v=GClGn1Y7bNA
24	Chapter 08 – BUILDING BY-LAWS ABOUT BUILDING CONSTRUCTION ACT(Theory Class)	1) Describe the basement and mezzanine floor Planning. 2) State the construction and construction permit. 3) Describe the road and footpath according to RAJUK law.	After the Class, Students will be able to: • They know the road and footpath according to RAJUK law.	• Reference Book • Projector • Mobile with Internet Connection Lecture Video: https://www.youtube.com/watch?v=xnrmzXnsf34
26	Class Test - 3	Examination Topic: Chapter 08 – BUILDING BY-LAWS ABOUT BUILDING CONSTRUCTION ACT Examination mark: 10 Passing Mark: 04		1) Class Test sheet 2) Pen 3) Pencil,Scale,Eraser
27	(Practical Class)	1) STAIR & STAIRCASE	After the Class, Students will be able to: • Explain the components of stair.	• Reference Book • Projector • Mobile with Internet Connection

28	Chapter 09 – BUILDING BY-LAWS ABOUT BUILDING CONSTRUCTION ACT(Theory Class)	1) Describe health and safety according to RAJUK act. 2) Discuss disable people right in RAJUK law. 3) State Means of escape.	After the Class, Students will be able to: They know State Means of escape.	- Reference Book - Projector - Mobile with Internet Connection Lecture Video: https://www.youtube.com/watch?v=sFRy9Bh_zH4
Semester Final				