

**Daffodil Polytechnic Institute, Institute Code: 50238**  
**Lesson Plan – Academic session: (March 2023 to August 2023)**

Subject Teacher : Nishat Akter Munia  
 Subject Name : Architectural Design - 2  
 Subject Code :26131  
 Technology : Architecture Technology.  
 Semester : 3<sup>rd</sup>  
 Reference Book Name : Architectural Design – 2((Publisher: Haque Prokashani)  
 Architecture Drafting and Design by Donald E. Hepler Paul I. Wallach  
 Architectural drafting 2 by Md Manjurul Alam (BTEB)  
 ARCHITECTURE Form, Space and Order by Francis D.K.Ching  
 Basics Architectural Design by Bert Bielefeld  
 Basic Design Principals of Architecture by Parker, Leonard  
 Design Drawing by Francis D.K. Ching

**Subject Aims:**

**After undergoing the subject, students will be able to**

- Describe the approach of architectural design.
- Discuss the area planning for building design.
- Discuss different type of house.
- Explain planning procedure of a residential building.
- List the basic area of residential building.
- State different floor plan of residential building.
- Explain furniture layout of a residential building.
- Describe the planning of a kitchen.
- Describe the Planning of a toilet/bathroom.
- Define laundry & utility room.
- Explain elevation of a residential building.
- Discuss the section of a residential building.
- List the set of presentation drawing.

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	30	PC	25
Class test	15	PF	25
Quiz test	15	-	-
Final	90	-	-
<b>Total</b>	<b>150</b>	<b>Total</b>	<b>50</b>

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

**Subject Outcome:**

The subject will enable the diploma Architecture students to improve architectural design and drawing skill by enhancing his imagination and accumulation of knowledge. Concept and mind maps that are some of these methods guide students to think and explore. The student to establish an analysis–synthesis–evaluation relationship and improve his intellectual and visual perception abilities. Learners can be expressed of the relationships between a design product (in this case, an architecture), its purpose, the designer's (architect's) conceptualization and the contextual constraints on realizing the purpose. Skilled students can apply their knowledge and experience in Architectural different sector.

Date	Lecture	Chapter/ Exam / Industrial Visit	Learning Area	Learning Outcome	Class/Lab Supporting Equipment's
	01 (Theory class)	<b>Chapter-01 APPROACH OF ARCHITECTURAL DESIGN</b>	1.1. Define Design and planning. 1.2. Mention design principles applied to architectural design concept. 1.3. Explain design in nature. 1.4. Explain general observation of architectural design & planning sequence.	After the Class, Students will be able to: •Understand the difference between design and planning.	Drafting Board, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System  YouTube Link: <a href="https://www.youtube.com/watch?v=bPdubyCJR_c">https://www.youtube.com/watch?v=bPdubyCJR_c</a>
	02 (Practical class)	<b>Chapter-01 PREPARE PLANNING OF RESIDENTIAL AREA</b>	1.1. Draw a bubble diagram showing different areas of a house. 1.2. Show the relationship of three basic area. 1.3. Draw a traffic pattern.	After the Class, Students will be able to: •Know what bubble diagram & traffic pattern is and how to use it.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System  YouTube Link: <a href="https://www.youtube.com/watch?v=ZyzeirtgVEs">https://www.youtube.com/watch?v=ZyzeirtgVEs</a>
	03 (Practical class)	<b>Chapter-01 PREPARE PLANNING OF RESIDENTIAL AREA</b>	1.4. Draw single line diagram of a residential building. 1.5. Draw Double line diagram of a residential building. 1.6. Draw the winter and summer sun angle diagram and showing air movement of the room.	After the class Students will be able to: •Draw a single line diagram and double line diagram.	Drafting Board, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System  YouTube Link: <a href="https://www.youtube.com/watch?v=ZyzeirtgVEs">https://www.youtube.com/watch?v=ZyzeirtgVEs</a>

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	04 (Theory class)	<b>Chapter-01 APPROACH OF ARCHITECTURAL DESIGN</b>	1.5. Discuss planning consideration for residential building. 1.6. Describe the styles of house. 1.7. Explain the design process of a residential building.	After the Class, Students will be able to: •Know about different types of house and their design process.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System  YouTube Link: <a href="https://www.youtube.com/watch?v=Ed-DkdMgXuU">https://www.youtube.com/watch?v=Ed-DkdMgXuU</a>
	05 (Practical Class)	<b>Chapter-02 PREPARE DIFFERENT FLOOR PLAN OF RESIDENTIAL BUILDING</b>	2.1. Draw setback for selected site with FAR & MGC calculation and information. 2.2. Draw Ground Floor Plan of a two-bedroom house with all information (Scale 1:100 or 1/8"=1'-0")	After the Class, Students will be able to: •Draw a ground floor plan.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System
	06 (Practical Class)	<b>Chapter-02 PREPARE DIFFERENT FLOOR PLAN OF RESIDENTIAL BUILDING</b>	2.3. Draw Typical Floor Plan of the two-bedroom house with all information (Scale 1:100 or 1/8"=1'-0"). 2.4. Draw Roof Plan of the two-bedroom house with all information (Scale 1:100 or 1/8"=1'-0").	After the Class, Students will be able to: •Draw typical floor plan and roof floor plan.	Drafting Board, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System  YouTube Link: <a href="https://www.youtube.com/watch?v=R7YxG4nsqeg">https://www.youtube.com/watch?v=R7YxG4nsqeg</a>
	07 (Theory class)	<b>Chapter-02 AREA PLANNING FOR BUILDING DESIGN</b>	2.1. Define building planning. 2.2. Discuss site selection of a building. 2.3. State the planning factors for site selection. 2.4. List the information of site surroundings.	After the Class, Students will be able to: •Describe the building planning and surroundings.	Drafting Board, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System  YouTube Link: <a href="https://www.youtube.com/watch?v=R7YxG4nsqeg">https://www.youtube.com/watch?v=R7YxG4nsqeg</a>

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	08 (Practical Class)	<b>Chapter-03 DEVELOP FURNITURE LAYOUT</b>	3.1. Draw living room furniture. 3.2. Prepare a living room furniture arrangement with space allowance and clearance.	After the Class, Students will be able to: •Draw a living room with furniture.	Drafting Board, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System  YouTube Link: <a href="https://www.youtube.com/watch?v=iy81UXzyJiM">https://www.youtube.com/watch?v=iy81UXzyJiM</a>
	09 (Practical Class)	<b>Quiz Test – 1 &amp; Chapter-03 DEVELOP FURNITURE LAYOUT</b>	Chapter 1 and 2(Practical Based)  3.3. Prepare a bedroom furniture arrangement with space allowance and clearance.	After the exam and class Students will be able to: •Solve chapter based all topics and drawing. •Draw a bedroom with furniture.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System.  Exam khata
	10 (Theory class)	<b>Chapter-02 AREA PLANNING FOR BUILDING DESIGN</b>	2.5. Explain setback. 2.6. Explain RAJUK setback rules. 2.7. Discuss the measurement method of a site. 2.8. Explain FAR calculation. 2.9. List the requirements & desires of a client for building planning.	After the class Students will be able to: •Know about RAJUK setback and FAR calculation.	Drafting Board, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System  YouTube Link: <a href="https://www.youtube.com/watch?v=BrNQOXixAw0">https://www.youtube.com/watch?v=BrNQOXixAw0</a>
	11 (Practical Class)	<b>Class Test – 1 &amp; Chapter-03 DEVELOP FURNITURE LAYOUT</b>	<b>Chapter 1 and 2(Theory Based)</b>  3.4. Prepare a dining room furniture arrangement with space allowance and clearance.	After the exam & Class, Students will be able to: • After the quiz test student will be able to justify himself\herself.  •Draw a dining room with furniture.	Drafting Board, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System  YouTube Link: <a href="https://www.youtube.com/watch?v=HCiZ4Rt-1Aw">https://www.youtube.com/watch?v=HCiZ4Rt-1Aw</a>

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	12 (Practical Class)	<b>Chapter-04 PREPARE KITCHEN FIXTURE LAYOUT</b>	4.1. Draw different types of kitchen fixture, fittings and appliances. 4.2. Draw working triangle of different type of kitchen.	After the Class, Students will be able to: •Draw different types of kitchen fixture and fittings.	Drafting Board, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System  YouTube Link: <a href="https://www.youtube.com/watch?v=HCiZ4Rt-1Aw">https://www.youtube.com/watch?v=HCiZ4Rt-1Aw</a>
	13 (Theory class)	<b>Chapter-03 DIFFERENT TYPE OF HOUSES</b>	3.1. Define house and housing 3.2. List the different type of house. 3.3. Discuss the characteristics of different type of house. 3.4. Discuss structural types of Single Storied houses, Double storied, multi storied, simplex, duplex, triplex, multiplex, Apartment/Flat detached, semi-detached, row house. 3.5. Define split-level house. 3.6. Discuss the characteristics of split-level house. 3.7. Discuss the planning consideration of split-level house. 3.8. Discuss Studio Apartment and its characteristics.	After the Class, Students will be able to: •Know and describe about different types of house and their characteristics.	Drafting Board, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System  YouTube Link: <a href="https://www.youtube.com/watch?v=SnxgUliEpNs">https://www.youtube.com/watch?v=SnxgUliEpNs</a>
	14 (Practical Class)	<b>Chapter-04 PREPARE KITCHEN FIXTURE LAYOUT</b>	4.3. Draw different type of kitchen showing space allowance and clearance of fixture. 4.4. Draw an isometric view of a kitchen cabinet showing different dimension	After the Class, Students will be able to: • Draw a kitchen with fixture, fittings and appliances.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System

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	15 (Practical Class)	Quiz Test – 1 & Chapter-05 PREPARE TOILET/BATHROOM FIXTURE LAYOUT	<b>Chapter 3(Theory Based)</b>  5.1. Draw different types of toilet/bathroom fixture with dimension (Scale 1:25 or 1/2"=1'-0").	After the Class, Students will be able to: •Draw different types of toilet fixture with dimension.	Drafting Board, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System YouTube Link: <a href="https://www.youtube.com/watch?v=SnxgUliEpNs">https://www.youtube.com/watch?v=SnxgUliEpNs</a>
	16 (Theory class)	<b>Chapter-04 BASIC AREAS OF RESIDENTIAL BUILDING</b>	4.1. Identify the basic area of residential building. 4.2. Identify different types of room and space. 4.3. Discuss Master Bed, Child Bed, Guest Bed and Servants bed of sleeping area. 4.4. Discuss living, dining, TV,music,library, family living, prayer, sewing of living area. 4.5. Discuss kitchen, kitchen store, pantry, kitchenette, utility, laundry, sun room, box room, dressing, study, store, terrace, open terrace, veranda, balcony, stair case, elevator, garage, parking, toilet/bathroom, mud room, swimming pool of service area. 4.6. Discuss the standard sizes of different rooms. 4.7. Identify the location of entrance.	After the class Students will be able to: •Know about the basic area of residential building and identify different types of room and area.	Drafting Board, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System  YouTube Link: <a href="https://www.youtube.com/watch?v=SPS6P7orGSE">https://www.youtube.com/watch?v=SPS6P7orGSE</a>
	17 (Practical Class)	<b>Chapter-05 PREPARE TOILET/BATHROOM FIXTURE LAYOUT</b>	5.2. Draw the plan of a toilet/bathroom showing two fixtures and fittings (Scale 1:25 or 1/2"=1'-0") 5.3. Draw the sectional elevation of a toilet/bathroom showing fixture and fittings with dimension (Scale 1:25 or 1/2"=1'-0")	After the Class, Students will be able to: •Draw a plan and sectional elevation of a toilet.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System  YouTube Link: <a href="https://www.youtube.com/watch?v=abgS7llv19k">https://www.youtube.com/watch?v=abgS7llv19k</a>

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	18 (Practical Class)	<b>Chapter-06 PREPARE THE ELEVATION OF RESIDENTIAL BUILDING</b>	6.1. Draw a front elevation of 4-stoired residential building (Scale 1:100 or 1/8"=1'-0") 6.2. Draw a back elevation of 4-stoired residential building (Scale 1:100 or 1/8"=1'-0")	After the Class, Students will be able to: •Draw a front and back elevation of residential building.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System  YouTube Link: <a href="https://www.youtube.com/watch?v=abgS7Ilv19k">https://www.youtube.com/watch?v=abgS7Ilv19k</a>
	19 (Theory class)	<b>Chapter-05 PLANNING PROCEDURE OF A RESIDENTIAL BUILDING</b>	5.1. Define open plan and closed plan. 5.2. Discuss quite zone and noise zone of a house. 5.3. Explain the bubble diagram of a house. 5.4. Describe the traffic pattern. 5.6. Explain ventilation and cross ventilation. 5.7. Discuss environmental factors affecting different rooms based on sun path, Wind flow. 5.8. Discuss building orientation. 5.9. Discuss single line drawing and double line drawing procedure from bubble diagram.	After the Class, Students will be able to: •Knowing about and identify open & closed plan, quite & noise zone, Traffic pattern, ventilation and building orientation.	Drafting Board, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System  YouTube Link: <a href="https://www.youtube.com/watch?v=abgS7Ilv19k">https://www.youtube.com/watch?v=abgS7Ilv19k</a>
	20 (Practical Class)	<b>Chapter-06 PREPARE THE ELEVATION OF RESIDENTIAL BUILDING</b>	6.3. Draw a right elevation of 4-stoired residential building (Scale 1:100 or 1/8"=1'-0"). 6.4. Draw a left elevation of 4-stoired residential building. (Scale 1:100 or 1/8"=1'-0").	After the exam and class, Students will be able to: •Draw right and left side elevation of a residential building.	Drafting Board, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System  Exam khata

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	21 (Practical Class)	<b>Class Test – 2 &amp; Chapter-06 PREPARE THE ELEVATION OF RESIDENTIAL BUILDING</b>	<b>Chapter 4 and 5(Theory Based)</b>  6.5. Apply graphic symbol (human, tree, car) in the elevation. 6.6. Apply rendering in elevation.	After the Class, Students will be able to: •Solve chapter based all topics and drawing. •Apply render in different side of elevation	Drafting Board, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System <b>YouTube Link:</b> <a href="https://www.youtube.com/watch?v=wXq3FvC0248">https://www.youtube.com/watch?v=wXq3FvC0248</a>
	22 (Theory class)	<b>Chapter-06 DIFFERENT FLOOR PLAN OF RESIDENTIAL BUILDING</b>	6.1. Identify different types of floor plan. 6.2. Differentiate between ground floor plan and typical floor plan. 6.3. Describe the design procedures of floor plan of a residential building. 6.4. List the requirements/annotations (room name, north sign, roads) to be used in floor plan. 6.5. Discuss scale used in floor plan	After the Class, Students will be able to: •Can identify different types of floors plan &scale used in floor plan.	Drafting Board, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System <b>YouTube Link:</b> <a href="https://www.youtube.com/watch?v=w2WgW3eHJNg">https://www.youtube.com/watch?v=w2WgW3eHJNg</a>
	<b>Mid Term</b>			After the exam, Self-examine the depth of knowledge about chapter related all topics.	1) Exam Paper
	24 (Practical Class)	<b>Chapter-07 PREPARE THE SECTION OF RESIDENTIAL BUILDING</b>	7.1. Draw a longitudinal section of 4-stoired residential building. (Scale 1:100 or 1/8"=1'-0") 7.2. Draw a cross- section of 4-stoired residential building. (Scale 1:100 or 1/8"=1'-0") 7.3. Apply symbols and textures in section.	After the Class, Students will be able to: •Draw a long and cross section of a residential building.	Drafting Board, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System <b>YouTube Link:</b> <a href="https://www.youtube.com/watch?v=-wDZNup32CY">https://www.youtube.com/watch?v=-wDZNup32CY</a>



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	25 (Practical Class)	<b>Chapter-08</b> <b>PREPARE</b> <b>THE PRESENTATION</b> <b>DRAWING SET.</b>	8.1. Sketch a line plan of a multistoried two bed room residential building in a given area. 8.2. Draw the plan of the building in 1:100 or 1/8"=1'-0"scale.	After the Class, Students will be able to: •Draw a plan of a residential building.	Drafting Board, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System  YouTube Link: <a href="https://www.youtube.com/watch?v=w2WgW3eHJNg">https://www.youtube.com/watch?v=w2WgW3eHJNg</a>
	26 (Theory class)	<b>Chapter-07</b> <b>FURNITURE</b> <b>LAYOUT</b> <b>OF A RESIDENTIAL</b> <b>BUILDING</b>	7.1. List the typical furniture group units of residential building. 7.2. List the furniture of a living room. 7.3. Discuss the measurement, space allowance and clearance of furniture for living room.	After the Class, Students will be able to: •Identify the typical furniture group units of residential building.	Drafting Board, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System  YouTube Link: <a href="https://www.youtube.com/watch?v=w2WgW3eHJNg">https://www.youtube.com/watch?v=w2WgW3eHJNg</a>
	27 (Practical Class)	<b>Chapter-08</b> <b>PREPARE</b> <b>THE PRESENTATION</b> <b>DRAWING SET.</b>	8.3. Draw the 4-side elevations with rendering of the building in 1:100 or 1/8"=1'-0"scale.	After the Class, Students will be able to: •Draw the elevation with rendering of a residential building.	Drafting Board, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System  YouTube Link: <a href="https://www.youtube.com/watch?v=w2WgW3eHJNg">https://www.youtube.com/watch?v=w2WgW3eHJNg</a>
	28 (Practical Class)	<b>Quiz Test – 3</b>  <b>Chapter-08</b> <b>PREPARE</b> <b>THE PRESENTATION</b> <b>DRAWING SET</b>	<b>Chapter 7(Theory Based)</b>  8.4. Draw section of the building in 1:100 or 1/8"=1'-0"scale.	After the Class, Students will be able to: •Draw a section of a residential building.	Drafting Board, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System YouTube Link: <a href="https://www.youtube.com/watch?v=w2WgW3eHJNg">https://www.youtube.com/watch?v=w2WgW3eHJNg</a>

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	29 (Theory class)	<b>Chapter-07 FURNITURE LAYOUT OF A RESIDENTIAL BUILDING</b>	7.4. List the furniture for a bed room. 7.5. Discuss the measurement, space allowance and clearance of furniture for bed room. 7.6. List the furniture of a dining room. 7.7. Discuss the measurement, space allowance and clearance of furniture of a dining room.	After the Class, Students will be able to: • Know about the furniture for a bed room and dining room.	Drafting Board, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System  YouTube Link: <a href="https://www.youtube.com/watch?v=OaLkpC6iejU">https://www.youtube.com/watch?v=OaLkpC6iejU</a>
	30 (Practical Class +Theory class)	<b>Chapter-08 PREPARE THE PRESENTATION DRAWING SET</b>	8.6. Draw the lay-out plan of the building in 1:200 or 1/16"=1'- 0"scale.	After the Class, Students will be able to: • Draw a roof plan.  • Know about different area and fixture of a kitchen.	Drafting Board, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System  YouTube Link: <a href="https://www.youtube.com/watch?v=FD5fwVz-9uw">https://www.youtube.com/watch?v=FD5fwVz-9uw</a>
		<b>Chapter-08 PLANNING OF A KITCHEN</b>	8.1. State the planning factors of a kitchen. 8.2. Mention different areas of a Kitchen. 8.3. Define nook. 8.4. Explain the use of different fixtures in Kitchen.		
	31 (Practical Class)	<b>Chapter-08 PREPARE THE PRESENTATION DRAWING SET</b>	8.6. Draw the lay-out plan of the building in 1:200 or 1/16"=1'- 0"scale.	After the Class, Students will be able to: • Draw a Lay-out plan	Drafting Board, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System  YouTube Link: <a href="https://www.youtube.com/watch?v=BshXI2euUWc">https://www.youtube.com/watch?v=BshXI2euUWc</a>
	32 (Theory class)	<b>Chapter-08 PLANNING OF A</b>	8.5. Explain the use of different appliance in kitchen. 8.6. Discuss working triangle.	After the Class, Students will be able to: • Planning of a kitchen.	Drafting Board, Set Square, Triangular Scale, Steel Scale, French Curve, PC,

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		KITCHEN	8.7. List the different types of kitchen. 8.8. Explain the different cabinet and platform in kitchen. 8.9. Discuss modular kitchen.		Sound System  YouTube Link: <a href="https://www.youtube.com/watch?v=FD5fwVz-9uw">https://www.youtube.com/watch?v=FD5fwVz-9uw</a>
	33 (Practical Class)	Class Test - 3	Chapter 7 and 8(Theory Based)	After the exam, Students will be able to: •Solve chapter based all topics and drawing.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System  Exam khata
	34 (Practical Class)	Review class	Chapter 7 and 8 (Regarding students problem) (Practical based)	1. problem solving	Drafting Board, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System
	35 (Theory class)	Chapter-09 PLANNING OF A TOILET/BATHROOM	9.1. State toilet/bathroom, toilet/bathroom, latrine and public toilet/bathroom. 9.2. Discuss location of bath room. 9.3. Discuss the standard size of toilet/bathroom. 9.4. Discuss the function of different fixture and fittings used in toilet/bathroom. 9.5. Discuss the dimension of different fixture & fittings. 9.6. Discuss wet zone and dry zone of a toilet/bathroom	After the Class, Students will be able to: •Know about toilet/bathroom.	Drafting Board, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System  YouTube Link: <a href="https://www.youtube.com/watch?v=ZDal82rQEY">https://www.youtube.com/watch?v=ZDal82rQEY</a>

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	36 (Practical Class)	Quiz Test - 4	Chapter 7,8 and 9(Theory Based + Practical based)	After the exam, Students will be able to: •Solve chapter based all topics and drawing.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System  Exam khata
	37 (Practical Class)	Review class	Chapter 1 ,2 and 3(Regarding students problem) (Practical based)	After the Class, Students will be able to: •Problem solve	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System  YouTube Link: <a href="https://www.youtube.com/watch?v=L_iYZ2UmMTc">https://www.youtube.com/watch?v=L_iYZ2UmMTc</a>
	38 (Theory class)	Chapter-10 LAUNDRY & UTILITY ROOMS	10.1. State planning factors of laundry and utility room. 10.2. Describe the function of laundry and utility room. 10.3. Explain the size of laundry and utility room. 10.4. State the planning factors of laundry and utility room. 10.5. Describe the function of store room. 10.6. Explain the location and size of store room.	After the Class, Students will be able to: •Know about and describe laundry and utility room.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System  YouTube Link: <a href="https://www.youtube.com/watch?v=Ij3BzJoOW40">https://www.youtube.com/watch?v=Ij3BzJoOW40</a>
	39 (Practical Class)	Review class	Chapter 4,5 and 6(Regarding students problem) (Practical based)	After the Class, Students will be able to: •Problem solving.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System  YouTube Link: <a href="https://www.youtube.com/">https://www.youtube.com/</a>

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					<a href="https://www.youtube.com/watch?v=D-Xnn1CQ3VQ">watch?v=D-Xnn1CQ3VQ</a>
	40 (Practical Class +Theory class)	<b>Chapter-08</b>	Prepare the presentation drawing set of a residential building.	After the class, Students will be able to: •Know about presentation drawing. •Solve chapter based all topics and drawing.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System
		<b>Chapter-11 ELEVATION OF A RESIDENTIAL BUILDING</b>	11.1. State elevation. 11.2. Discuss the measurement of building components used in elevation. 11.3. Discuss the line grades used in elevation drawing (near and far). 11.4. Define the function of emphasis used in elevation. 11.5. Explain necessity of freehand sketches of trees, cars & human figure used in elevation. 11.6. Discuss necessity of rendering used in elevation. 11.7. List the materials used in elevation drawing.		
	41 (Theory class)	<b>Chapter-12 SECTION OF A RESIDENTIAL BUILDING</b>	12.1. State section line in different floor plan. 12.2. State the requirements and information used in section. 12.3. Discuss the different dimensions of different building components used in section. 12.4. Discuss different symbols & textures used in section. 12.5. Describe necessity of working	After the exam, Students will be able to: • Know about section of a residential building.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System  YouTube Link: <a href="https://www.youtube.com/watch?v=yl8nyloO6ao">https://www.youtube.com/watch?v=yl8nyloO6ao</a>

Date	Lecture	Chapter/ Exam / Industrial Visit	Learning Area	Learning Outcome	Class/Lab Supporting Equipment's
			drawing, detail drawing and shop drawing.		
	42 (Practical Class)	<b>Class Test - 4</b>	<b>Chapter 10,11,and 12(Theory Based )</b>	After the class test and class, Students will be able to: •Self-examine the depth of knowledge about the chapter related topics.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System  Exam khata
	43 (Practical Class)	<b>Review class</b>	Chapter 1-chapter 12 Regarding student problem.	After the Class, Students will be able to solve their subjective all problem.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System
	44 (Theory class)	<b>Chapter-13 SET OF PRESENTATION DRAWING</b>	13.1. Discuss the necessity of presentation drawing. 13.2. List the drawing to prepare a set of presentation drawing. 13.3. Discuss the sequence of drawing of presentation drawing. 13.4. Discuss the scale used for different presentation drawing. 13.5. Discuss printing process of a presentation drawing. 13.6. Discuss necessity of legends and cover page of a presentation drawing.	After the class test and class, Students will be able to: •Know about the necessity and list of presentation drawing of a building.	Drafting Board, Pencil, Set Square, Triangular Scale, Steel Scale, French Curve, PC, Sound System
<b>Final exam</b>					