

1. Exercise : 10

WEEK -10

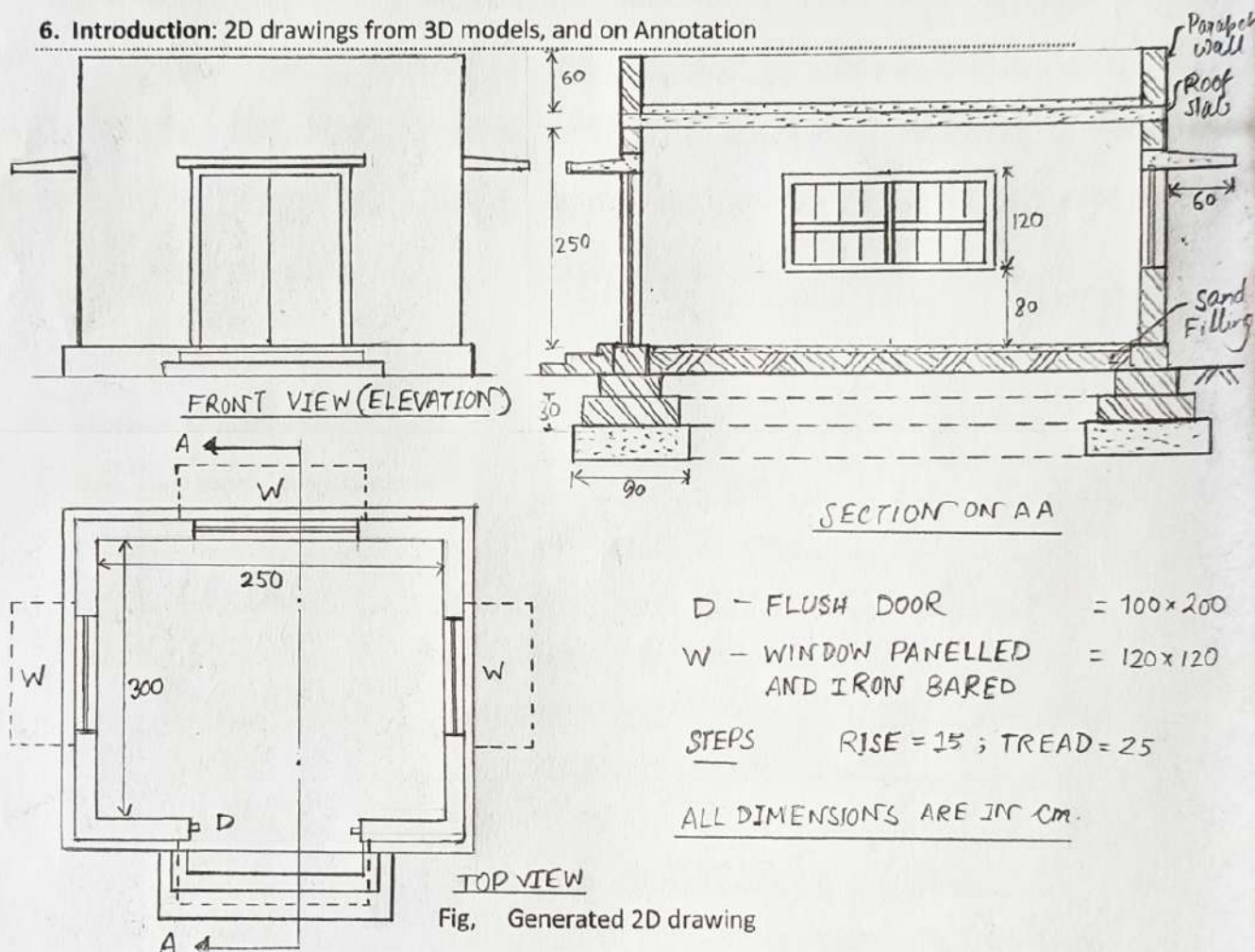
2. Date: 16/01/21

3. Title : Generating 2D drawings from 3D models.

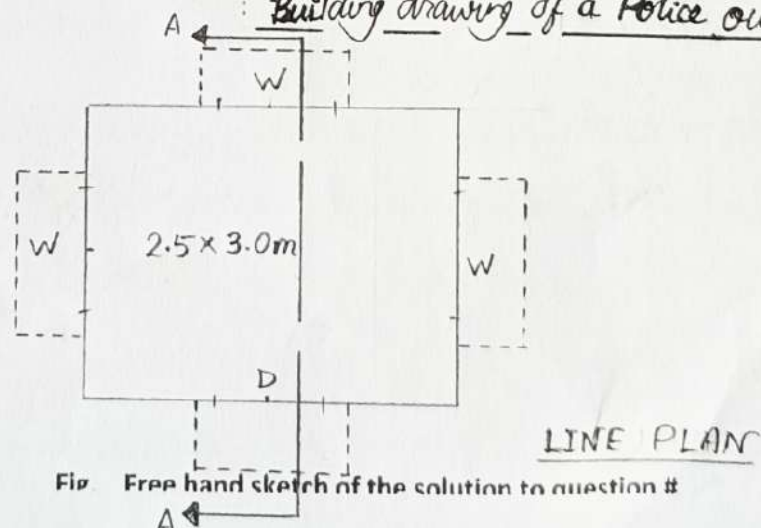
4. Aim : To generate associated 2D drawings from 3D models, and to annotate the same.

5. Software used: AutoCAD - 2020

6. Introduction: 2D drawings from 3D models, and on Annotation



7. Procedure (for solving question # 1): Draw a plan, elevation and sectional view of a police outpost.
- 7.1 Question outline : of a police outpost.
- 7.2 Object : Building drawing of a Police outpost.



### 7.3 Procedure:

#### Step 1.

Set units, limits and zoom to workspace.

Step 2: Use rectangle command and make rectangle with given dimensions along with the required lines. Make all the views using offset, line, mirror.

Step 3: Repeat the step 1 for sectional & front view.

Step 4: Use Hatch command to add texture of materials of the dimension.

Step 5: Print the sketch by setting printer to "AutoCAD High Quality".  
Print the paper as "ISO full bleed A4 297x210".

### 8. Commands/ tools/ features used:

S.N.	Command/ tool/ features	Use
1.	UNITS	To set units to mm.
2.	LIMITS	To set limits to $\langle 0, 0 \rangle$ & $\langle 297, 210 \rangle$
3.	ZOOM	To zoom workspace.
4.	RECTANGLE	To make rectangles of given dimensions
5.	LINE	To make required lines.
6.	OFFSET	To offset the rectangles & lines.
7.	TRIM	To trim extra length of lines.
8.	HATCH	To show materials used in building
9.	MIRROR	To mirror the object to opposite side.
10.	TEXT	To label the plans.

### 9. Result:

Using the above commands and following the above procedures, the sectional view, elevation and top view are drawn successfully.

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Signature		Marks	