






ENGG 232

- i. In a drawing, the sectioned surface is represented by using section lines at angle 45°
- ii. Dimension lines are narrow continuous line 0.35mm thick
- iii. Adequate spacing between dimension lines and drawings
- iv. Arrowheads should be approximately triangular
- v. Centre lines must never be used as dimension lines
- vi. Figures are placed to allow reading of dimension.

3a. A half section is a view of an object showing one half of the view in section

b. A full section is the passing of imaginary cutting plane through the entire drawing, splitting the drawn object in two with the interior of the object revealed

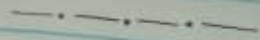
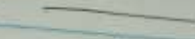
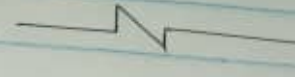
4. Leader lines can be terminated by closed filled or blank, dot, tick or dimension leaders.

-  closed filled.
-  closed blank.
-  dot
-  tick.
-  Dimension leader

5a. Scale 5:1 is used for the enlargement of an object 5 times it's original size.

b. Scale 1:10 is used for reducing the size of an object 10 times the original size

- 6a. Diameter = \varnothing
- b. Radius = R
- c. Square = \square
- d. Spherical Radius = SR

- a. centre line = 
- b. cutting line = 
- c. long break = 

7. The front view, the plan and the end elevation.
 An orthographic projection is a means of representing 3-dimensional objects in 2 dimensions.

8. When the projection is represented in 2 dimensions and the principal planes are not parallel with the projection plane.

9a. First angle projection is a method of creating a 2D drawing of a 3D object.

- i. The view from the front is in the middle.
- ii. The view from the left is on the right and vice versa.
- iii. The view from the top is on the bottom and vice versa.

9b. Third angle projection is a method of orthographic projection used to represent 3D objects using a series of 2D views.

- i. The front view
- ii. The plan
- iii. The end elevation

Objectives -

1. A
2. A
3. C
4. B
5. A
6. B
7. C
8. B
9. A
10. A
11. C
12. A
13. C
14. C
15. D