



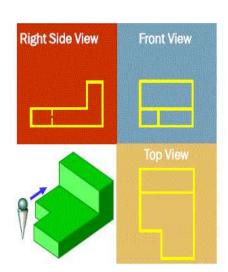
Engineering Drawing – **UNIT IV** Topic – FREE HAND SKETCHING Faculty i/c: C.SENTHILKUMAR,ASP/MECH,

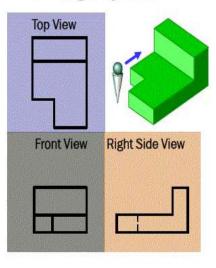
Free hand sketching of orthographic projection: - Curtesy: NPTEL material

Views arrangement

1st angle system

3rd angle system





Note: First angle projection only we use

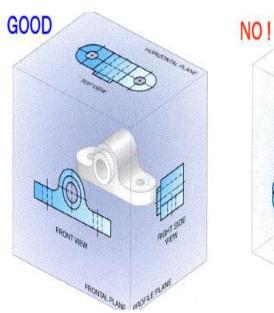


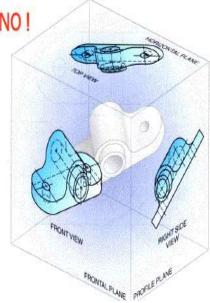


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Suggestions: Orient the object

- 1. The object should be placed in its natural position.
- The orthographic views should represent the true size and true shape of an object (as much as possible).





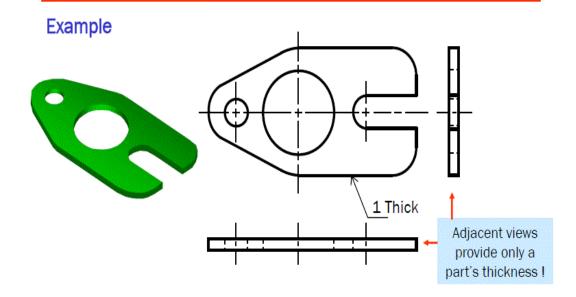




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Object that requires only one-view

- Flat (thin) part having a uniform thickness such as a gasket, sheet metal etc.
- Cylindrical-shaped part.

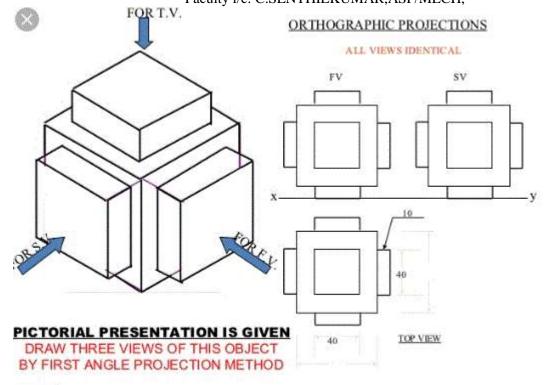






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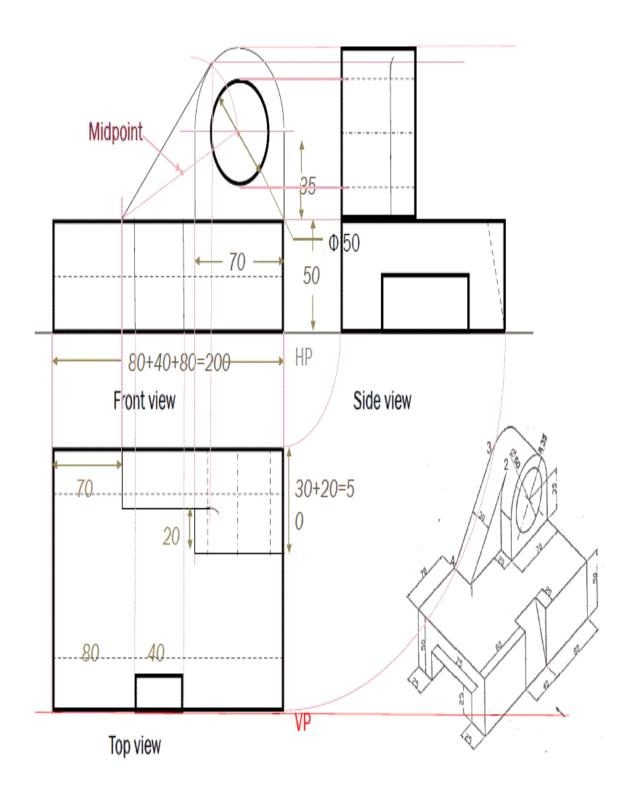


338 × 479





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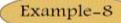




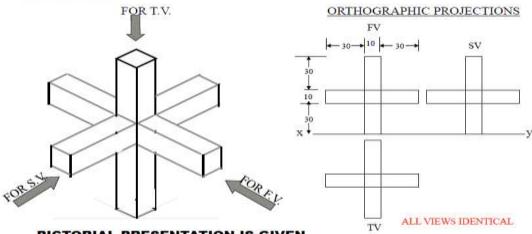


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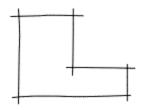






PICTORIAL PRESENTATION IS GIVEN

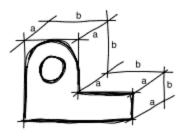
DRAW THREE VIEWS OF THIS OBJECT BY FIRST ANGLE PROJECTION METHOD



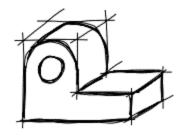
Step 1



Step 2



Step 3



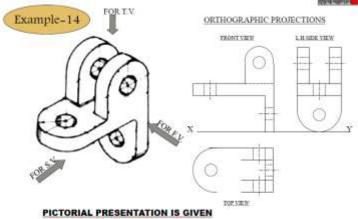
Step 4



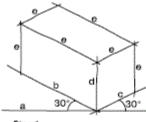


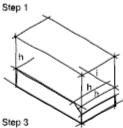
Engineering Drawing –

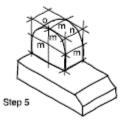
UNIT IV Topic – FREE HAND SKETCHING Faculty i/c: C.SENTHILKUMAR, ASP/MECH,

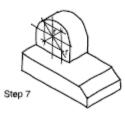


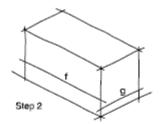
DRAW THREE VIEWS OF THIS OBJECT

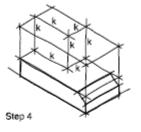


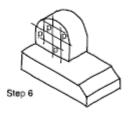


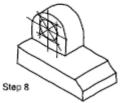










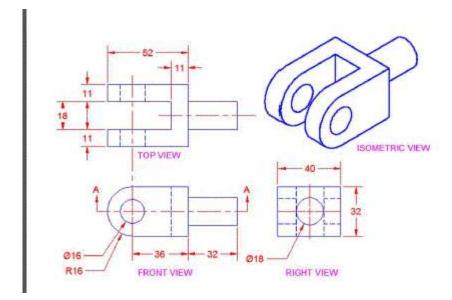






Engineering Drawing – UNIT IV Topic – FREE HAND SKETCHING

Faculty i/c: C.SENTHILKUMAR, ASP/MECH,



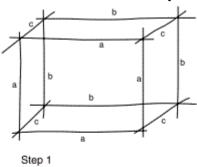


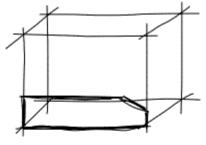


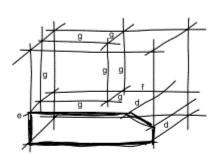
Engineering Drawing –

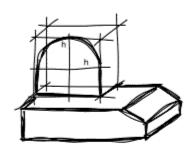
UNIT IV Topic – FREE HAND SKETCHING Faculty i/c: C.SENTHILKUMAR, ASP/MECH,

Step 2





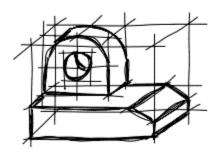






Step 4





Step 5

Step 6

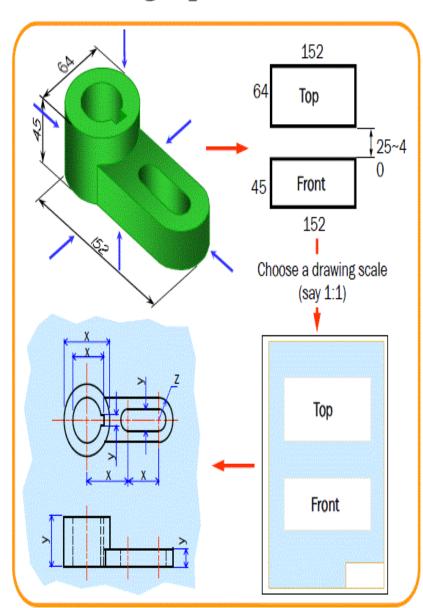




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Steps for Orthographic Views

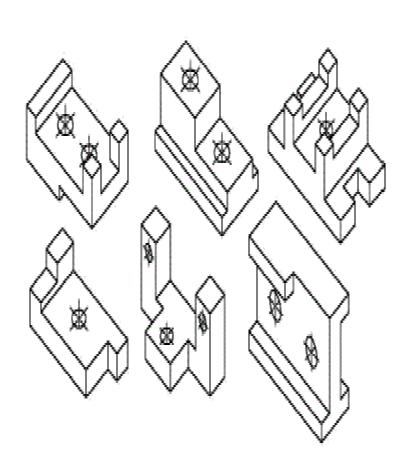
- 1. Select the necessary views
- 2. Layout the selected views on a drawing sheet.
- 3. Complete each selected views.
- 4. Complete the dimensions and notes.







Engineering Drawing –
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Faculty i/c: C.SENTHILKUMAR,ASP/MECH,

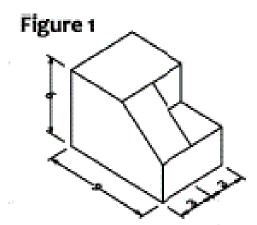


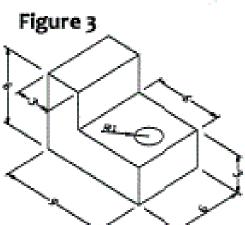


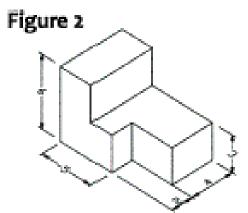


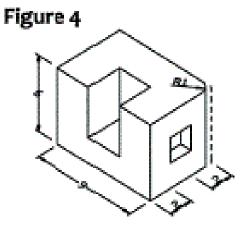
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Solve it:







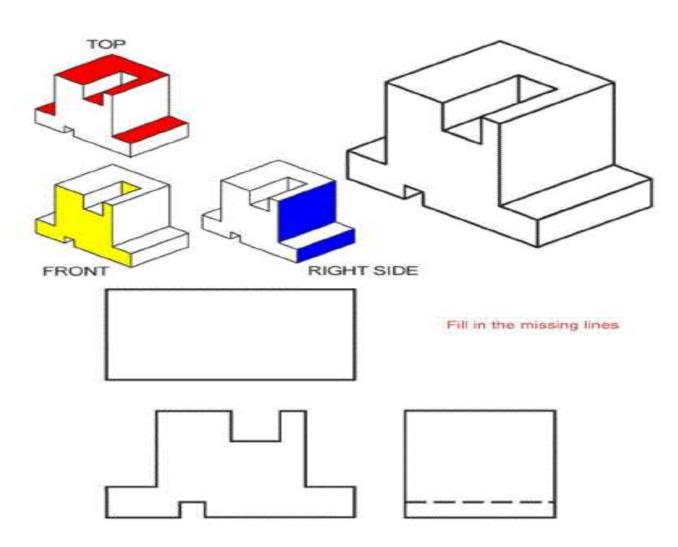






Engineering Drawing – **UNIT IV** Topic – FREE HAND SKETCHING Faculty i/c: C.SENTHILKUMAR,ASP/MECH,

QUIZ:







Engineering Drawing – **UNIT IV** Topic – FREE HAND SKETCHING Faculty i/c: C.SENTHILKUMAR,ASP/MECH,

QUIZ:

