

SECTIONING AND SECTIONAL VIEWS



Types of Section Views

- The nature of the cutting plane gives us the different types of sections there are.
- This imaginary cutting plane is controlled by the designer and depending on how it goes through the object, can give rise to;
 - ➤ a full section
 - ≥a half section
 - ≥an offset section
 - ➤a broken-out section
- ➤Other types of sections include the, revolved, removed, assembly and auxiliary sections

Note: Some books may use a different way of classifying types of section views

DDEK / 2015 / ME 160 - ENGINEERING DRAWING

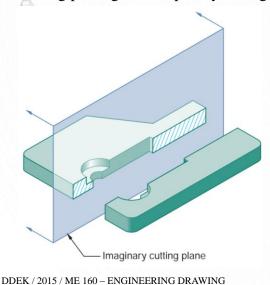
5

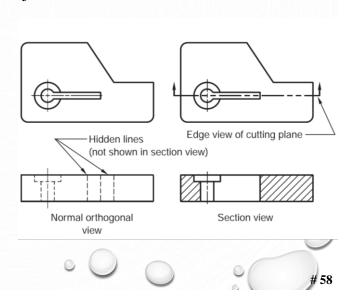


SECTIONING AND SECTIONAL VIEWS

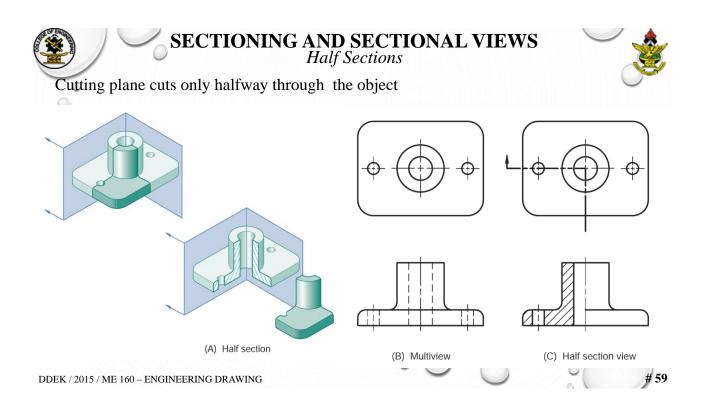
Full section

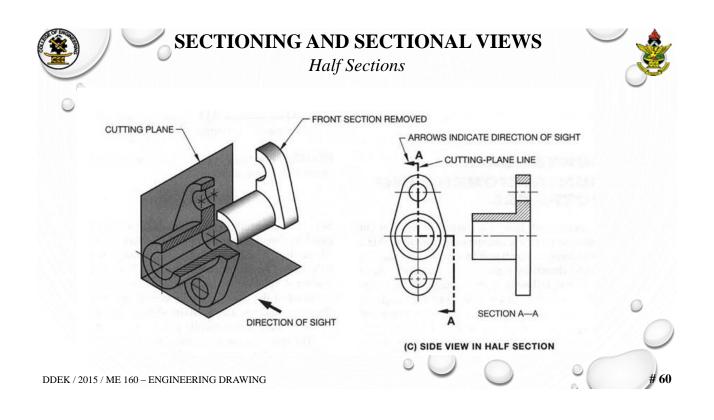
Cutting plane goes completely through the object

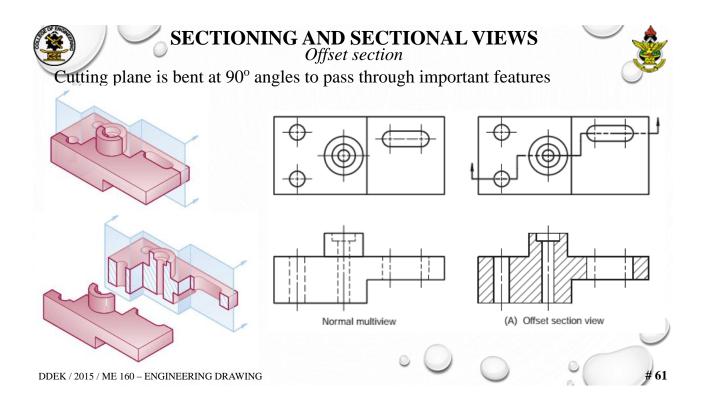


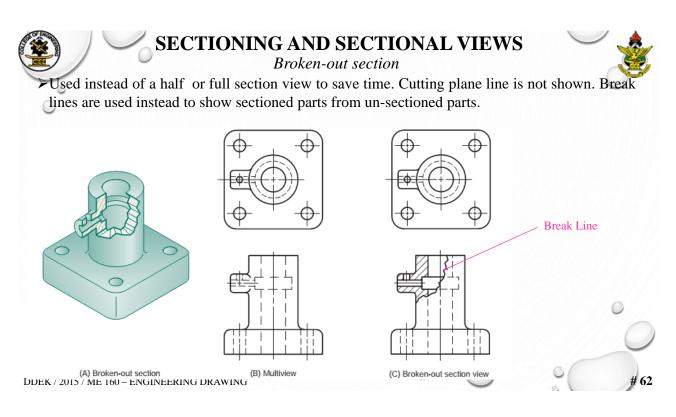


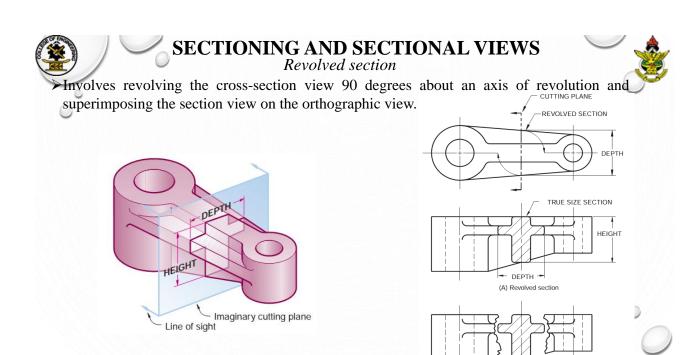
1





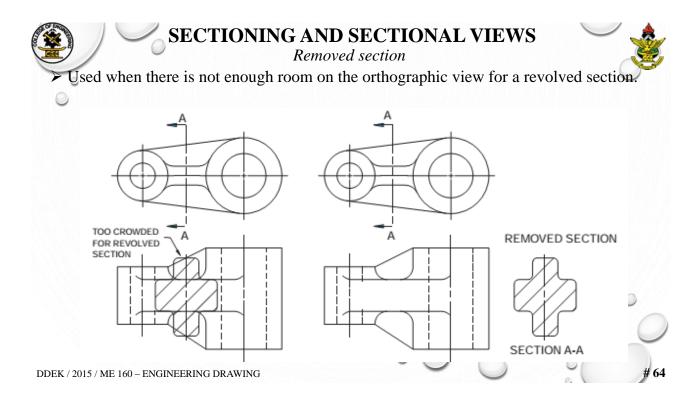


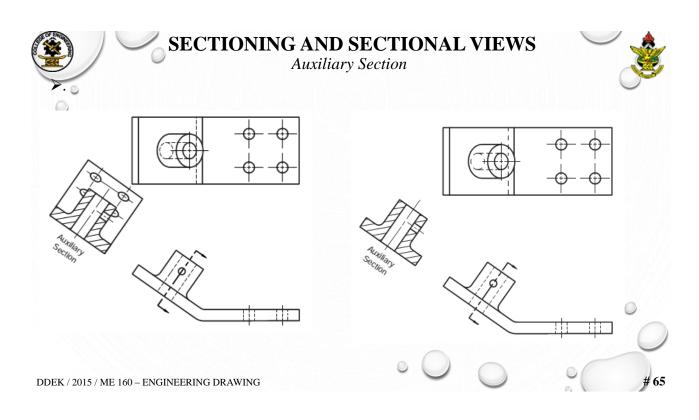


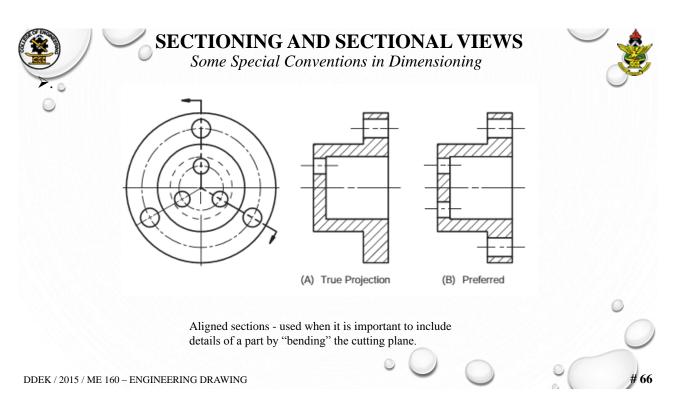


(B) Revolved section; broken view

DDEK / 2015 / ME 160 - ENGINEERING DRAWING



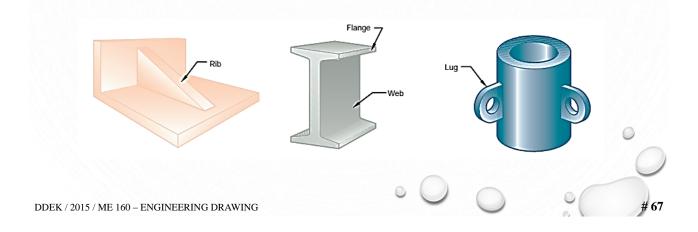


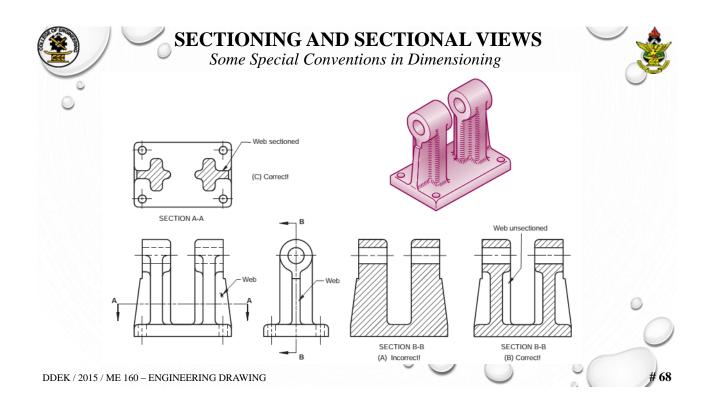


SECTIONING AND SECTIONAL VIEWS

Some Special Conventions in Dimensioning

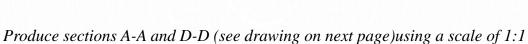
- Ribs, webs, spokes, lugs, gear teeth, and other thin features are not section lined when the cutting plane passes parallel to the feature.
- ➤ Some other parts not sectioned include;
 - Standard parts such as bolts, nuts, and bearings.







TUTORIAL EXERCISE - to be drawn during tutorial session. (Mechanical - 12/02/2015)



(Materials/Metallurgical- 13/02/2015)

Produce section D-D (see drawing on next page) using a scale of 1:1

DDEK / 2015 / ME 160 – ENGINEERING DRAWING

