



**AUTODESK
AUTOCAD**

CAD Lab

Lecture # 10

How to create title block and its template in AutoCAD

Learning Objectives of this Lecture

- To know & to learn Title block creation in AutoCAD
- To learn how to create title block & its template.
- Working with Plotting and layouts

Drawing Sheet

■ Trimmed paper of a size A0 ~ A4.

■ Standard sheet size (**JIS**)

A4 210 x 297

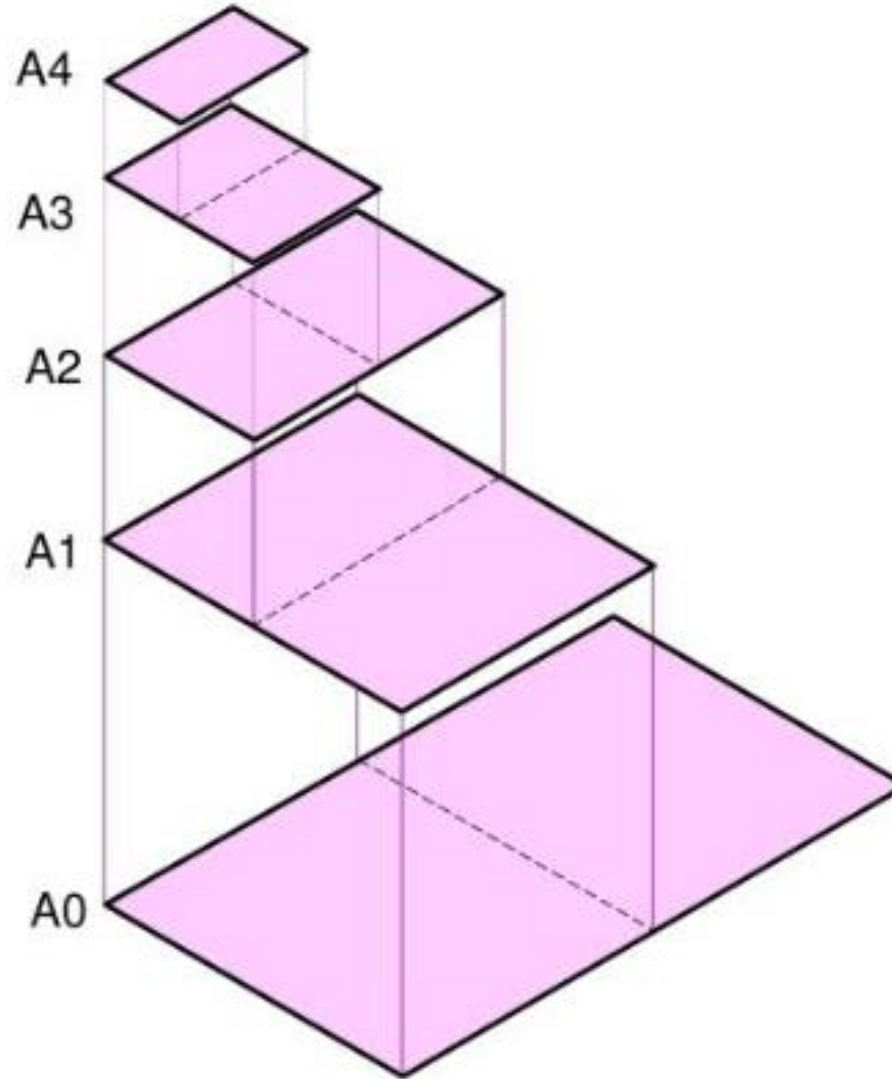
A3 297 x 420

A2 420 x 594

A1 594 x 841

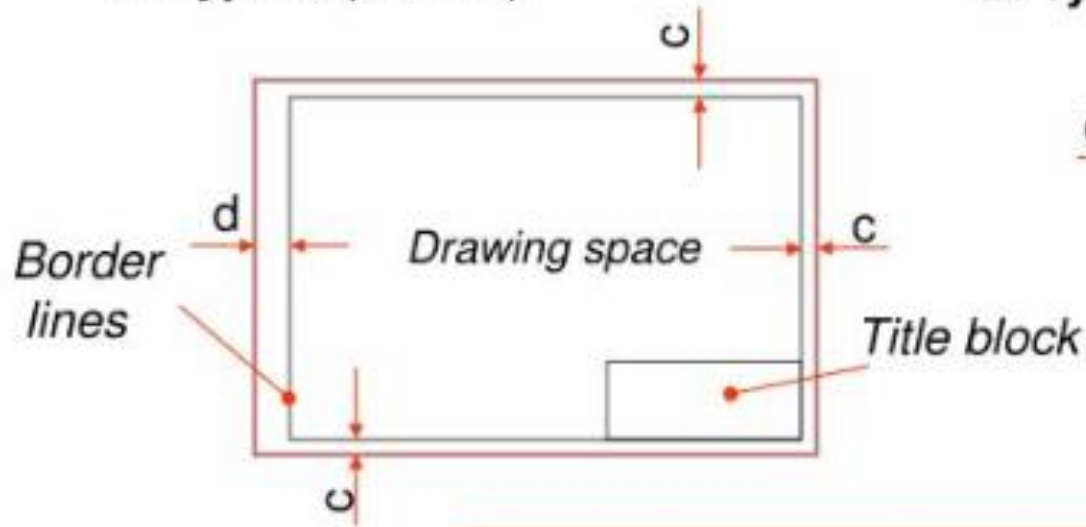
A0 841 x 1189

(Dimensions in millimeters)

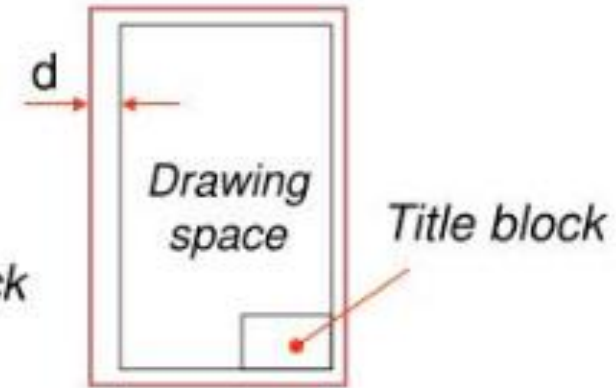


Orientation of drawing sheet

1. Type X (A0~A4)





2. Type Y (A4 only)



Sheet size	c (mm)	d (mm)
A4	10	25
A3	10	25
A2	10	25
A1	20	25
A0	20	25

All engineering drawings should

TITLE WHEEL BEARING	
NAME John Smith	CHECKED 
VERSION 1.1	DATE 18.10.99
NO NEED TO MEASURE ALL MEASUREMENTS IN MM	SCALE 1:1
ITI ENGINEERING	

The title block should include:

Title:- title of the drawing

Name:- name of the person who produced the drawing

Checked:- before manufacture, drawings are usually checked

Version:- many drawings are amended, each revision must be noted

Date:- the date the drawing was produced or last amended

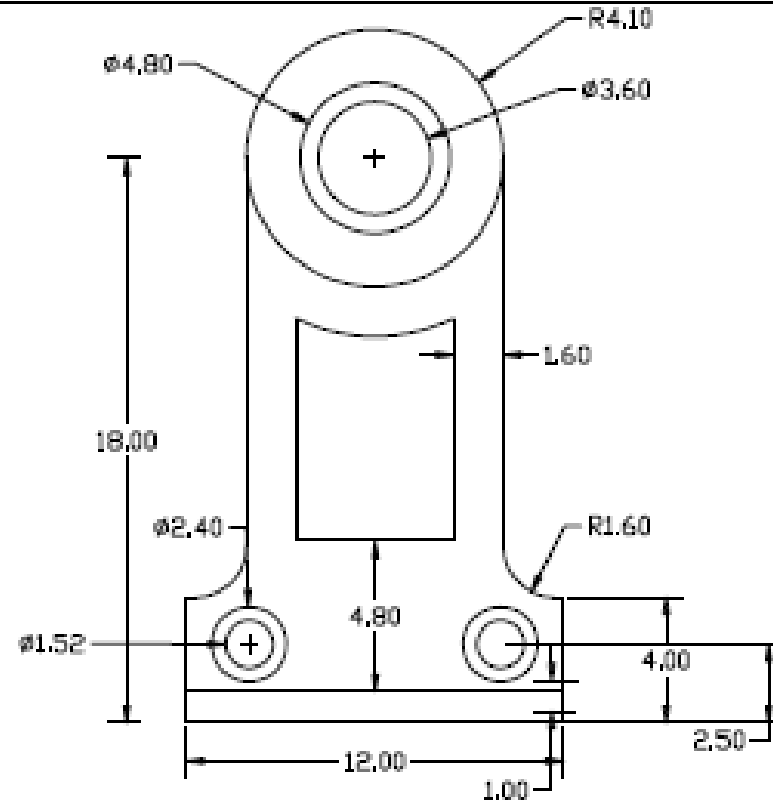
Notes:- any note relevant to the drawing

Scale:- the scale of the drawing

Company name:- name of the company

Projection:- the projection system used to create the drawing

AutoCAD Template Sample:-



**UET
Peshawar**

Drawn by: ____

Reg # :

**Department of Computer System
Engineering**

Checked by:

Dated: 15-Mar-20

Steps for Creation of Template:

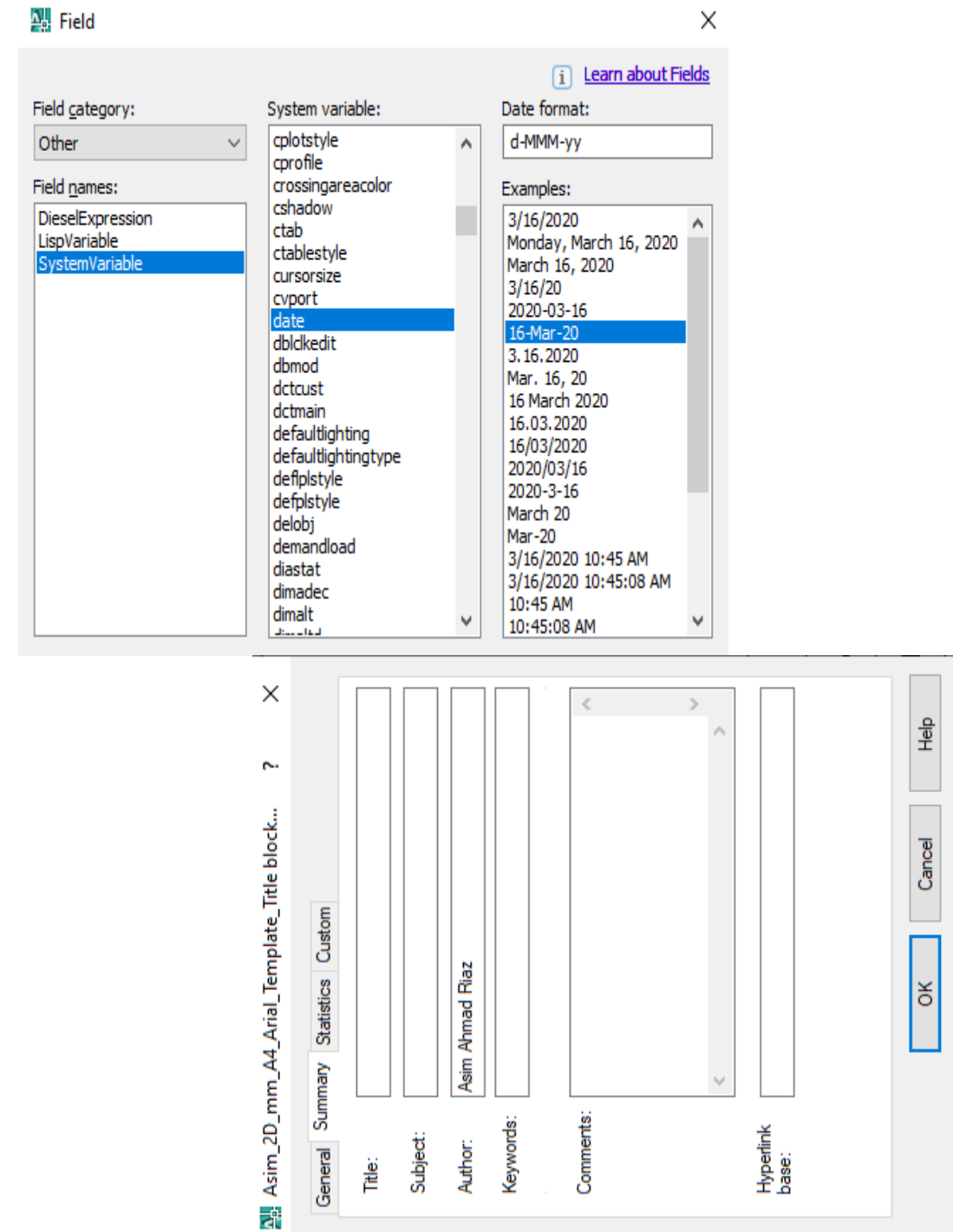
1. First draw a rectangle as per drawing limit. i.e. (**297mm x 210mm**)
2. Draw a second rectangle using **offset** value of 10 mm.
3. Then draw a title block using **Offset** at the bottom with proper division for each Particular. i.e University logo, Name, Reg #, Checked by, Client, Dated etc. using **Multiline text** command for Particular write-up & Keep the font style and font size as per your convenience. i.e Arial/Time New Roman & 4.0.
Enter logo of University using

Insert → Raster Image Reference → Select Image → Open → Select insertion point-
Select Scale ↩

If u want to remove image frame, Type imageframe in cmd area, & type 0 ↩

Steps for Creation of Template:

1. Then enter Field for Author, dated etc. so that it can be updated dynamically in the template. Type 'Field' and press Enter. Goto Field category – others- system variables- date
2. How to enter Author name. Goto file-Drawing properties-Summary-Author



Field:

- A field in text contains instructions to display data that you expect to change during the life cycle of a drawing.
- When a field is updated, the latest data is displayed.
 - A field for which no value is available displays hyphens (---)
 - An invalid field displays pound signs (####)
- Fields can be inserted in almost any kind of text including tables and attributes
- When any text command is active, Insert Field can be found on the shortcut menu

Create Blocks with ATTRIBUTES in AutoCAD

https://www.youtube.com/watch?v=K_XEqFk-qOM

<https://www.youtube.com/watch?v=7XJl9ZTqV4>

Steps for Creation of Template:

1. Now save this title block as Template. But usually we used title block in layout space. We can use it in the model space as well but generally we plot our drawings in the layout. & to do this type 'copybase' & press enter. Select base point & then select whole template. All the template is copied in the clip board.
2. Go-to Layout and delete/erase all the existing viewports. Now set size of paper by right click on layout and select page setup manager. Select modify and change page setup.

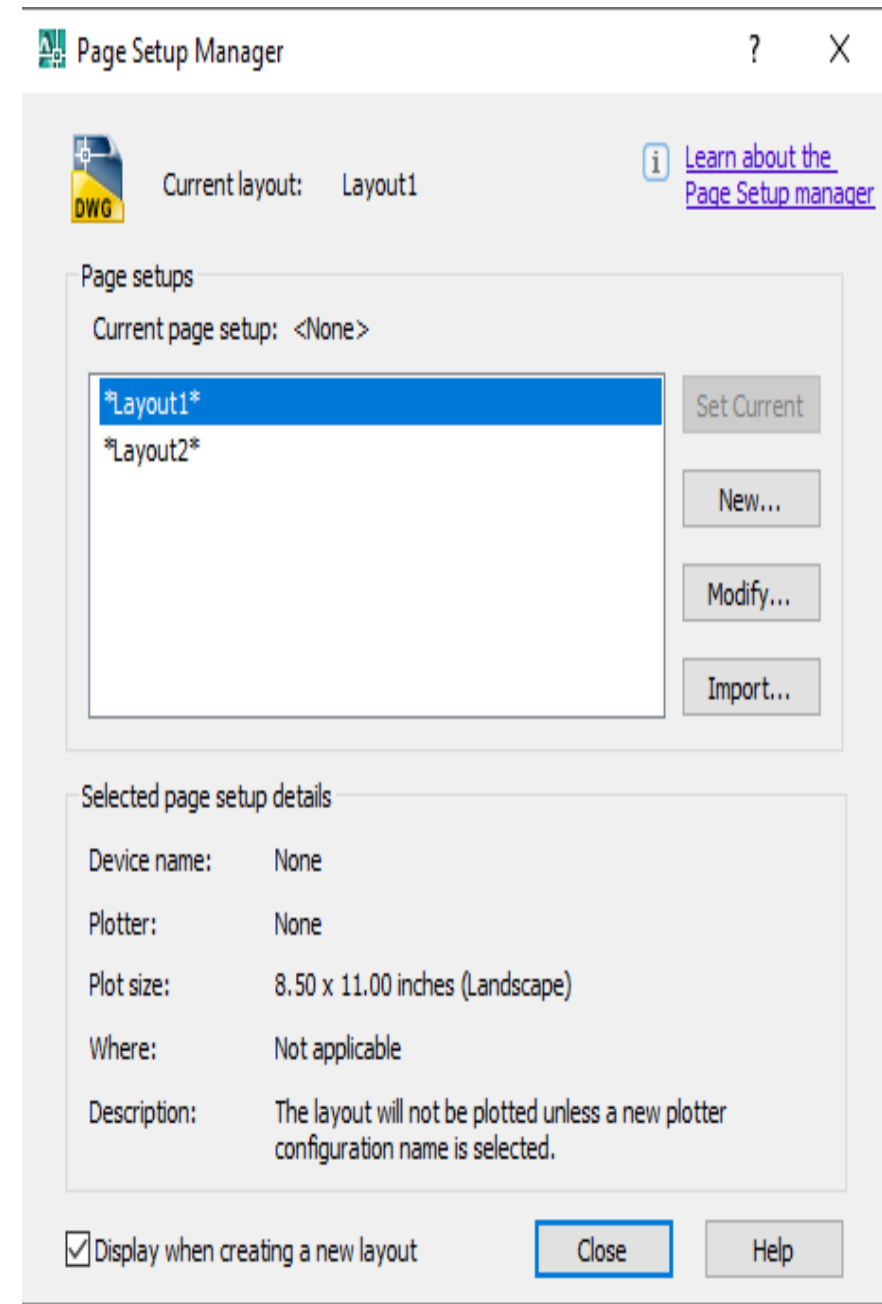
Printer/Plotter: DWG to PDF

Paper size: ISO A4 297 x 210 mm

Drawing orientation: Landscape

Plot Scale 1:1

Plot area: Layout



Page setup

Name: <None>



Printer/plotter

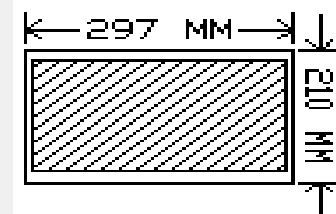
Name: DWG To PDF.pc3

Properties

Plotter: PDF - PDF Plot - by Autodesk

Where: File

Description:



Paper size

ISO A4 (297.00 x 210.00 MM)

Plot area

What to plot:

Layout

Plot offset (origin set to printable area)

X: 0.00 mm

☐ Center the plot

Y: 0.00 mm

Plot scale

☐ Fit to paper

Scale: 1:1

1

mm

=

1

unit

☐ Scale lineweights

Plot style table (pen assignments)

acad.ctb

☐ Display plot styles

Shaded viewport options

Shade plot: As displayed

Quality: Normal

DPI: 100

Plot options

☒ Plot object lineweights

☒ Plot with plot styles

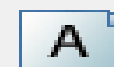
☒ Plot paperspace last

☐ Hide paperspace objects

Drawing orientation

☐ Portrait

☒ Landscape

☐ Plot upside-down


Preview...

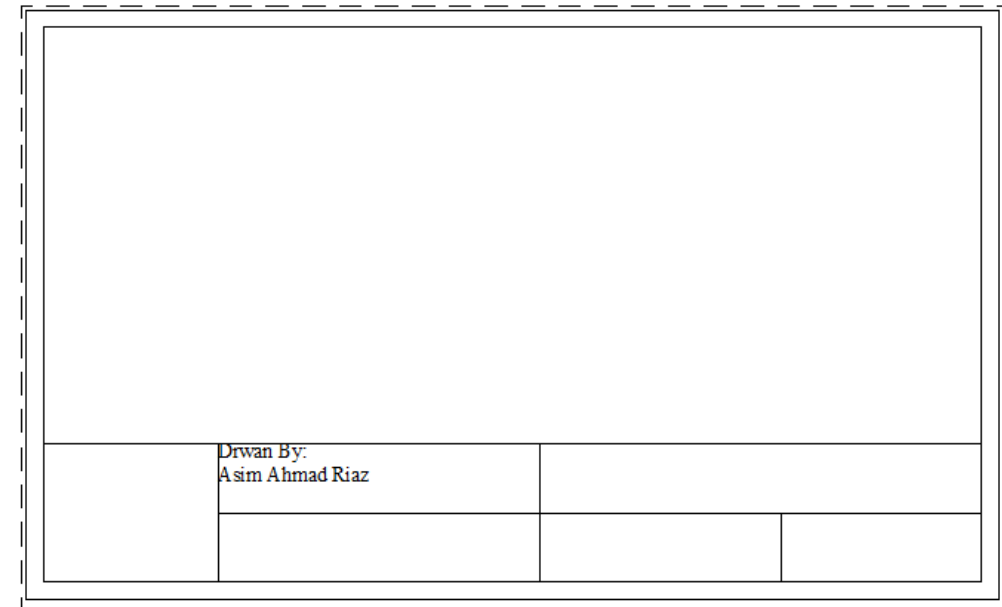
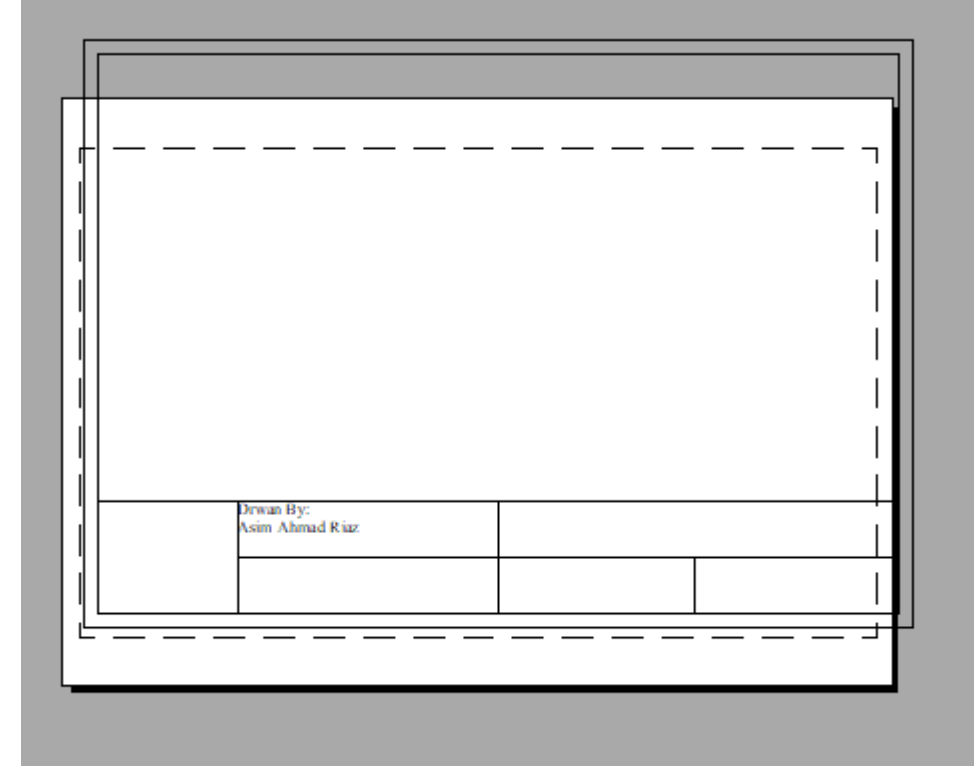
OK

Cancel

Help

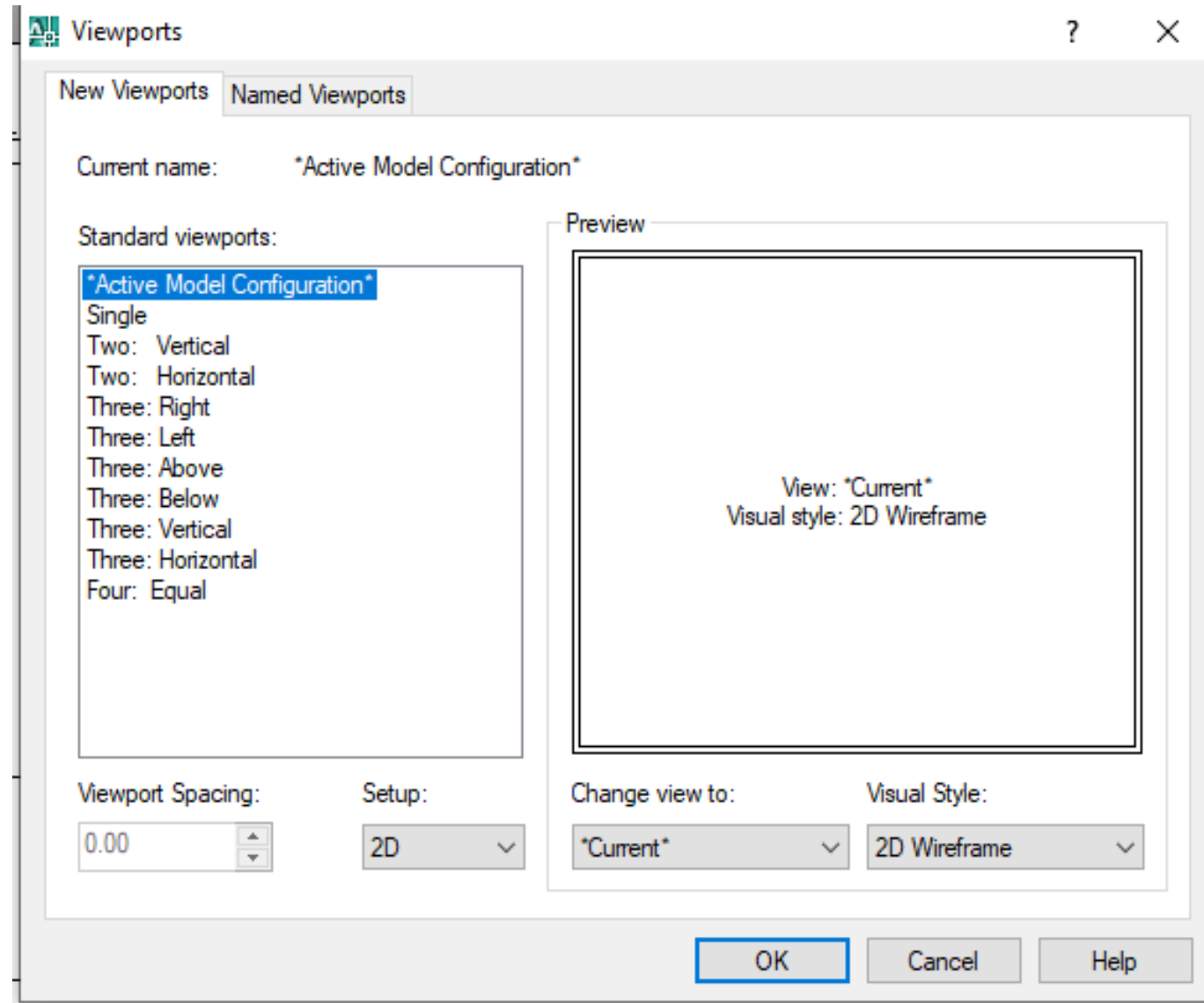
Steps for Creation of Template:

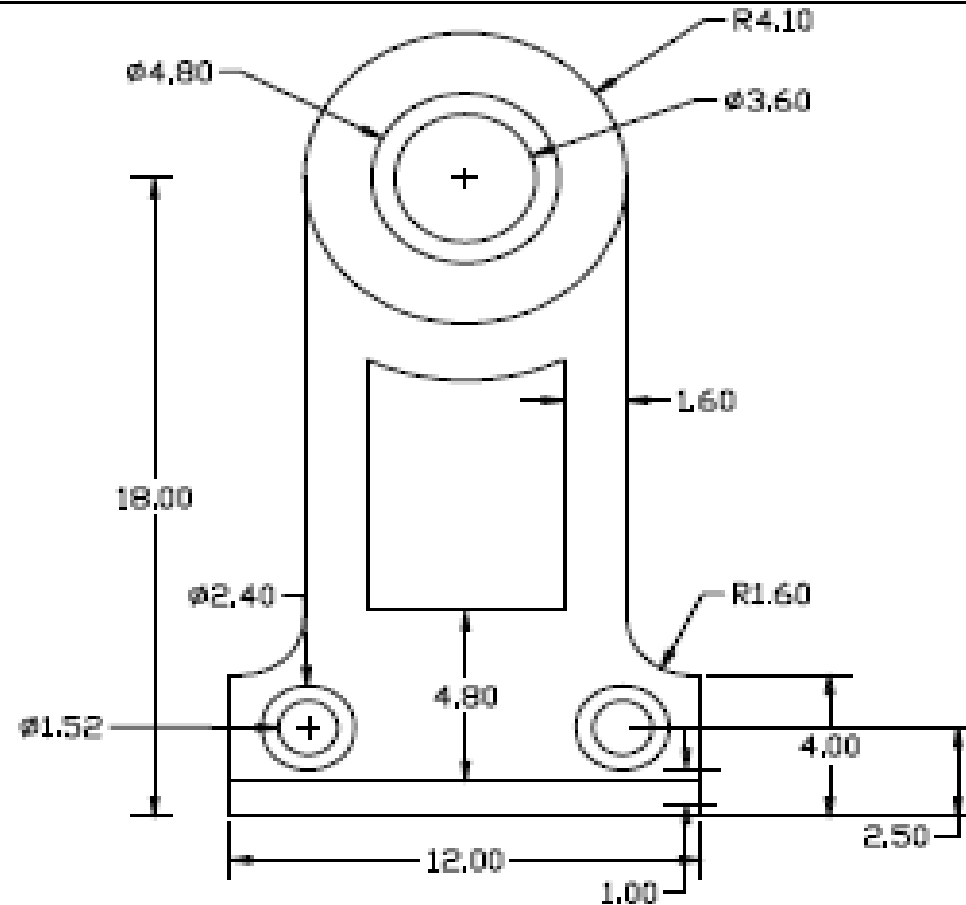
1. Now type 'pasteclip' in cmd area of layout 1. press enter
2. Select base point at the lower left corner inside dashed lines. The template may not set in the layout limits.
3. Using **stretch** command and bring it inside the dashed limits.
4. After setting, Rename Layout 1 by **ISO A4 297x210**.
5. Goto save as and save it as **Drawing Template** on desktop or any other folder.



Steps for Creation of Template:

1. Now open any of the 2D drawing and go to layout and invoke the saved template 'ISO A4 297x210'
2. after invoking, regenerating 'REA' the layout so that all the field became update. i.e Date etc.
3. Then insert layout bar from ACAD. And select Display viewport dialogue and draw a viewport.





**UET
Peshawar**

Drawn by: ----

**Department of Computer System
Engineering**

Reg # :

Checked by:

Dated: 15-Mar-20

THANKS...!

QUESTIONS ARE WELCOME!!!