MPE 126: ENGINEERING DRAWING PRACTICAL ASSIGNMENTS

To be submitted in Hard Copy

Assignment 3

Draw a solid model transition of a loft of rectangular 100x100x2RHS to a pipe OD 30mm, thickness 2mm, the transition piece is 100mm long.

1. Convert the part into sheet metal part
2. Convert the drawn 3D sheet metal part into a fully dimensioned 2D drawing and
3. Flattened view for fabrication

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Assignment 4

Draw a sheet metal formed 90 degrees diameter 85mm elbow with 4 split sections using a 2mm thick sheet metal. Flatten each split and present the flatten parts in a 2D drawing.

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Assignment 5

Draw a solid model interpenetration of two cylinders, 100mm diameter cylinder penetrates 100mm diameter cylinder at 45 degree angle.

1. Convert the part into sheet metal part
2. Convert the drawn 3D sheet metal part into a fully dimensioned 2D drawing and a flattened (developed) view for fabrication

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Assignment 6

Draw a Solid model of the Standard Drum shown in the 3D drawing below. Make sure all the details are shown, although the caps are only illustrative, no emphasis is put on the dimensions but proportionality should be seen.

Covert the drawn 3D solid model into a fully dimensioned 2D drawing with the 3D solid model at top right-hand corner.

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