MECH 300 – Assignment 2

It is recommended to do the following NX7.5 CAST tutorials:

*Drafting – Introduction to Drafting – Drawings and Views*
  - Linear, Radial Dimensions
  - Drafting for assemblies - assembly drawings

Create drawings of your Valve Assembly; separate drawings for each part: shaft, arm, plate, retainer and body. Also create an assembly drawing (isometric view only showing components). Parts should be dimensioned fully (but **not over-dimensioned**!), assembly drawing should display parts list, and indicate parts with auto-balloon, as shown in the example below. Determine mass of all your parts and total mass of the assembly (using the NX7.5 provided default steel as material), and enter these upon your drawings, as shown below (don’t forget about the units for mass!)

You can use standard UG NX7.5 template format, with title block that you will find when you open the drawing new files. Edit texts provided in the templates as shown in the examples here. Print all of your six drawings (i.e. do not use TIFF snapshots of the screen, but rather the PRINT function of NX directly, your view borders should not show on the printout). Submit all drawings stapled together, with assembly drawing on top.

Sample assembly drawing:
Sample part drawing: