

Part III – Drawing Generation

1. Review the drawing generation related tutorials.
2. Practice NX 2D drawing functions following the given procedures.
3. Load the part model, *part1.prt*, and start the drafting application. Create the top view, front view, right view, and isometric view of this component using different scale factors.
4. Add necessary auxiliary lines, and specify the dimensions of the component.
5. Draw the title box and put in drawing name, your names and student IDs.
6. Create the PostScript (tiff probably the best format, gif would too, jpg acceptable if compression file acceptable) of the drawing.
7. Try to specify tolerances and test different dimension and tolerance formats.

Part V – Reporting

1. Write a lab report that includes images of the 3D part model and the Engineering Drawing (from the PostScript file) following the given report format:

Title of the Assignment
Names and Student Numbers

- 1) *Objective*
 - 2) *Description of the Assignment*
 - 3) *Your Experience and Suggestions*
 - 4) *Illustrations (Images and Drawings)*
 - 5) *New Procedures Developed (if there is any)*
2. Submit the lab report by emailing the following documents to: mech410@me.uvic.ca
 - Lab report in *MS Word* named as: [Group#_Lab1\(.doc\)](#)
 - The NX files with the same primary name [Group#_Lab1\(.prt\)](#).