

Weekly Design Evaluation – Week 7 – Monday 5/14/18 Name _____

Class Design Section - 60 points total

Out of Class Design Project – 20 points total. – The Revolved Feature Part – SolidWorks part to be sent by Sunday at midnight. Hand in this checklist at the instructor's desk by 9:45am at the end of the evaluation on Monday.

- Must contain: lines, arcs and a style spline and multiple features if desired (3pts)
- At least 30 sketch entities in the primary and one other feature including model lines, arcs, style splines, reference geometry, and dimensions (6pts) Extra credit for more.
- Fully defined sketches (3pts)
- Descriptive part name (2pts)
- Renamed features (2pts)
- Symmetry (1pt)
- Material or Appearance (2pts)
- Color (1pt)
- Errors and Extras

Out of Class Design Project – 20 points total. – The Revolved Feature Part – Photo Real Image – jpg or png image to be sent by Sunday at midnight. Hand in this checklist at the instructor's desk by 9:45am at the end of the evaluation on Monday.

- Material – appearance (4pts)
- Scene (2pts)
- Lights (2pts)
- Shadows – Shading – Reflection (2pts)
- Camera (2pts)
- Object fills image (2pts)
- Object centered in image (2pts)
- Good orientation (1pt)
- Image size 800px wide x 600px tall or 800px tall x 600px wide (3pts)
- Errors and Extras
- Send image

In Class Design Project – 20 points total. The Spur Gear Design Project saved and sent as a “Pack and Go” zip folder with the 3 parts and the assembly to be sent by 9:45am at the end of the evaluation.

- | | Pinion | Wheel |
|--|--------|-------|
| • Standard ANSI Inch, 4 units after decimal (1pt), Material of your choice (1pt), Rename your features (1pt), Model complete (1pt) | | |
| • Properly derived Do, Dp, Dr, (1pt each gear) | | |
| • Dpp, Db (1pt each gear) | | |
| • Ta (1pt each gear) | | |
| • Tooth Root Perpendicular (1pt each gear) | | |
| • Xc (1pt) | | |
| • Movement with Physical Dynamics (4pts) | | |
| • Gear Mate, works correctly (3pts) | | |
| • Extras and Errors | | |

Final Design Section - 40 points total – SolidWorks files to be saved and sent as a “Pack and Go” zip folder with your parts and assembly to be sent by Sunday at midnight.

FDP score as described in class