



# FREDERICK UNIVERSITY

## DEPARTMENT OF MECHANICAL ENGINEERING

### ASSIGNMENT 2:

#### Design of fasteners – bolted connections – welded joints

#### Data for each student

**Subject:** ME316 - AU308

**Academic Year:** 2019 (Fall Semester)

**Instructor:** Dr. Antonios Lontos ([lontosantonios@gmail.com](mailto:lontosantonios@gmail.com))

| a/a | (a)    | (b)    | (c)    | (d)    | (e)    | Student's<br>Reg. Num. |
|-----|--------|--------|--------|--------|--------|------------------------|
|     | F1 (N) | F2 (N) | r (mm) | d (mm) | F3 (N) |                        |
| 1.  | 9.100  | 10.760 | 155    | 100    | 8.500  | 11320                  |
| 2.  | 9.000  | 10.550 | 160    | 105    | 7.450  | 9320                   |
| 3.  | 8.950  | 10.450 | 150    | 110    | 6.450  | 9813                   |
| 4.  | 8.900  | 10.400 | 160    | 115    | 8.950  | 10106                  |
| 5.  | 9.000  | 10.350 | 170    | 120    | 8.450  | 10601                  |
| 6.  | 9.000  | 10.850 | 170    | 125    | 7.450  | 11098                  |
| 7.  | 8.950  | 10.750 | 165    | 130    | 6.950  | 11234                  |
| 8.  | 9.100  | 10.650 | 160    | 135    | 5.950  | 11319                  |
| 9.  | 9.000  | 10.550 | 155    | 140    | 8.950  | 11388                  |
| 10. | 9.000  | 10.650 | 150    | 145    | 8.450  | 11425                  |
| 11. | 8.950  | 10.450 | 165    | 130    | 7.450  | 11460                  |
| 12. | 8.900  | 10.400 | 170    | 135    | 6.950  | 11557                  |
| 13. | 8.900  | 10.850 | 165    | 140    | 5.950  | 12426                  |
| 14. | 8.800  | 10.750 | 160    | 145    | 5.450  | 12462                  |
| 15. | 8.900  | 10.500 | 165    | 140    | 5.300  | 12642                  |
| 16. | 9.200  | 10.650 | 155    | 110    | 9.050  | 12646                  |
| 17. | 9.100  | 10.550 | 150    | 115    | 8.950  | 12647                  |
| 18. | 9.000  | 10.750 | 160    | 120    | 6.950  | 12665                  |
| 19. | 9.000  | 10.450 | 170    | 115    | 5.950  | 12696                  |
| 20. | 8.950  | 10.400 | 165    | 120    | 9.050  | 12708                  |
| 21. | 8.900  | 10.350 | 160    | 125    | 8.950  | 12711                  |
| 22. | 8.800  | 10.250 | 155    | 130    | 6.450  | 12739                  |
| 23. | 9.200  | 10.450 | 165    | 135    | 5.950  | 12969                  |
| 24. | 9.100  | 10.850 | 150    | 140    | 5.450  | 13068                  |
| 25. | 9.000  | 10.750 | 160    | 145    | 6.950  | 13072                  |
| 26. | 9.000  | 10.650 | 160    | 115    | 5.950  | 13078                  |
| 27. | 9.000  | 10.550 | 155    | 120    | 5.950  | 13100                  |
| 28. | 8.900  | 10.450 | 165    | 125    | 5.450  | 13105                  |
| 29. | 9.200  | 10.400 | 150    | 115    | 6.950  | 13130                  |

|     |       |        |     |     |       |              |
|-----|-------|--------|-----|-----|-------|--------------|
| 30. | 9.100 | 10.350 | 160 | 120 | 5.950 | <b>13152</b> |
| 31. | 9.000 | 10.250 | 160 | 125 | 8.950 | <b>13154</b> |
| 32. | 9.000 | 10.650 | 170 | 130 | 8.450 | <b>13173</b> |
| 33. | 8.950 | 10.850 | 165 | 115 | 7.450 | <b>13273</b> |
| 34. | 8.900 | 10.750 | 160 | 120 | 6.950 | <b>13887</b> |
| 35. | 9.200 | 10.650 | 170 | 125 | 5.950 | <b>13997</b> |
| 36. | 9.100 | 10.550 | 155 | 115 | 5.450 | <b>14719</b> |
| 37. | 9.000 | 10.650 | 170 | 120 | 8.950 | <b>14804</b> |
| 38. | 9.000 | 10.550 | 165 | 125 | 8.450 | <b>15323</b> |
| 39. | 8.950 | 10.450 | 160 | 130 | 7.450 | <b>15335</b> |
| 40. | 8.900 | 10.400 | 155 | 130 | 9.150 | <b>17478</b> |
| 41. | 9.200 | 10.850 | 150 | 135 | 9.050 |              |
| 42. | 9.100 | 10.750 | 160 | 115 | 8.950 |              |