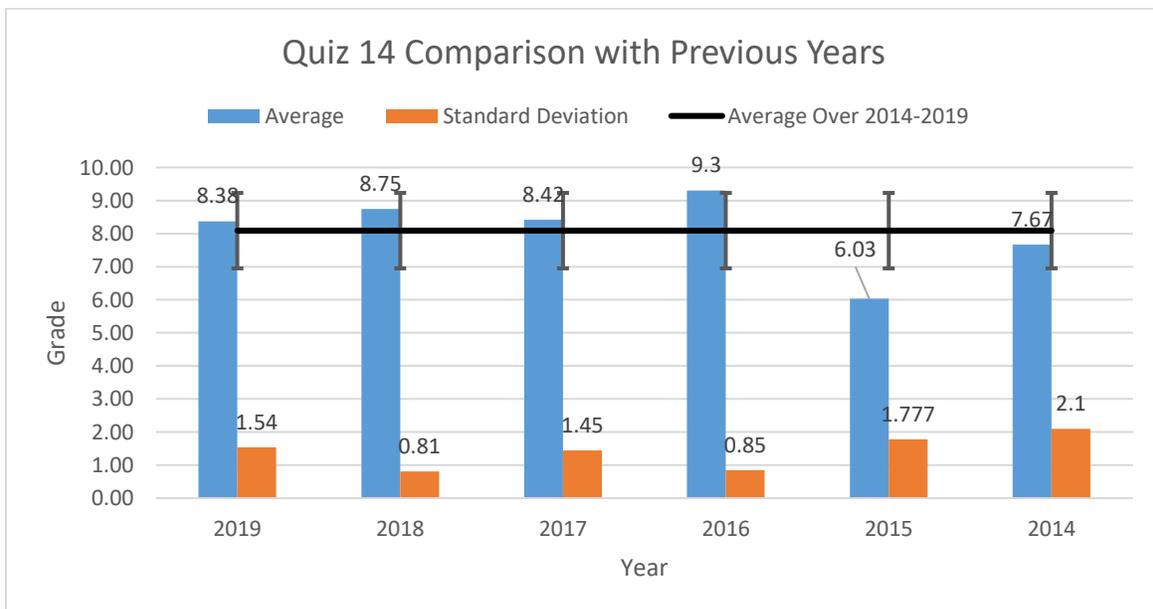
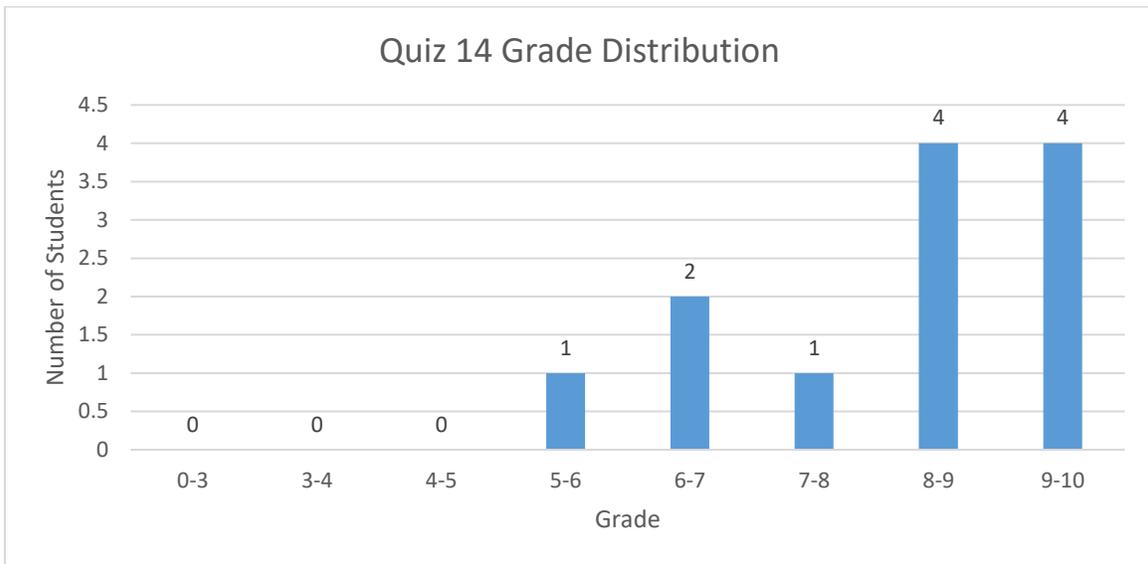


Quiz 14 Report

12/11/2019

1. Summary

Total number of students	12
Attended	12
Missed	0
Average grade	8.38
Standard deviation of grades	1.54



2. Comments

- Several students used wrong area for calculating $F_{D,pole}$
The area should be $D \times L = 0.6 \times 90 = 54m^2$.
But, students used $\frac{\pi D^2}{4}$ or πDL .
- Some students thought that the flow is laminar. Also one student didn't calculate the Re#, and assume that the flow is laminar.
- One student made minor mistake for the Drag coefficient equation of turbulent boundary layer. → Used wrong exponential number.

$$C_D = \frac{0.031}{Re_L^{1/2}} \Rightarrow C_D = \frac{0.031}{Re_L^{1/7}}$$