Exam 1 Report

10/13/2021

1. Summary

Total number of students	10
Attended	9
Missed	1
Number of problems	3
Average grade	84.07
Standard deviation of grades	14.39

2. Grade distribution
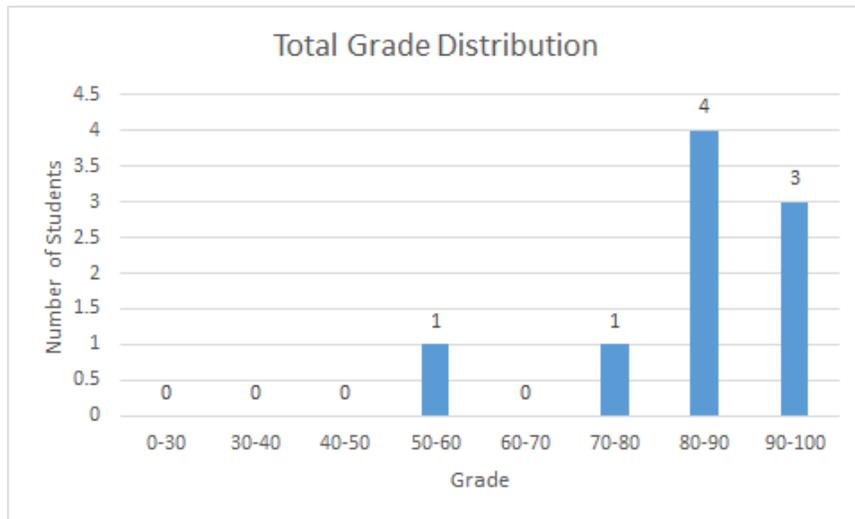
3. Comparison with past years
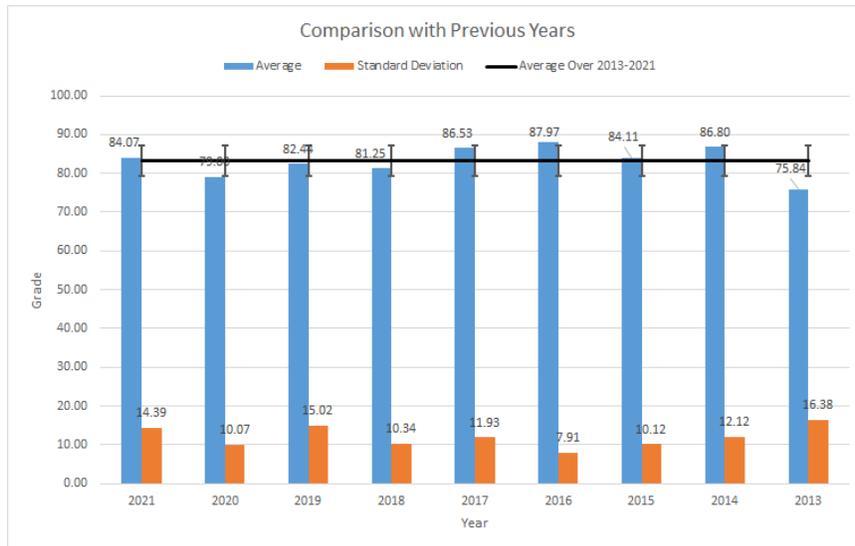
4. Individual problem breakdown

Individual scores per problem

Problem 1: Average 8.72, Standard Deviation 0.97
Problem 2: Average 8.06, Standard Deviation 3.11
Problem 3: Average 8.44, Standard Deviation 0.95

5. Grade distribution per problem

Grade distribution per problem

Grade	P1	P2	P3
0-3	0	0	0
3-4	0	0	0
4-5	0	0	0
5-7	1	0	1
7-9	5	5	6
9-11	3	3	2
11-13	0	0	0
13-15	0	0	0
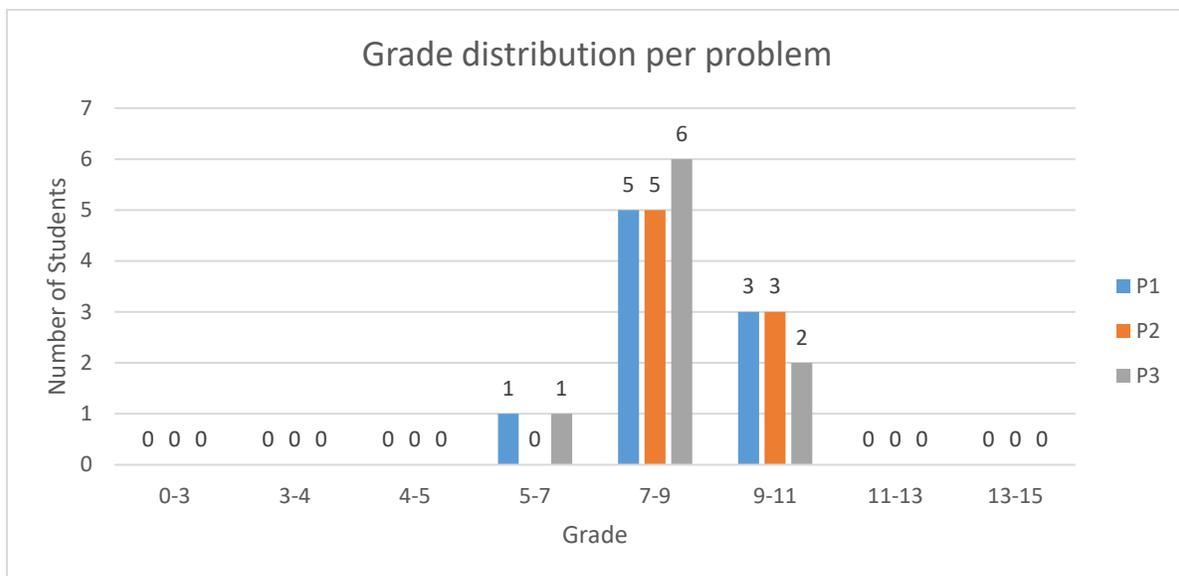
6. <u>Comments</u>

PROBLEM 1

- Many students could not derived the V_1
- Some of students confused the direction of V_2 so they subtracted the $\dot{m}V_2$ from $\dot{m}V_1$ which is actually need to be summed due to the direction
- A few of students made a mistake when they consider the density
- Some of students could not use the 7inch height of manometer appropriately

PROBLEM 2

- Most of the students calculated the π_1 correclty
- Many students could not derived the π_0 well and they made some mistakes when they calculate the index number of repeated variables
- A few of students made a mistake when they consider the unit of pressure
- One student didn't solve this problem

PROBLEM 3

- Some of students made a mistake when they consider the boundary condition
- Also, a few of students could not derived the appropriate boundary condition at free surface
- Several students could not set up the correct equation to calculate the flow rate
- One student could not simplify the momentum equation correctly with given assumption