Exam 1 Report

10/11/2023

1. Summary

Total number of students	8
Attended	8
Missed	0
Number of problems	3
Average grade	83.75
Standard deviation of grades	11.94

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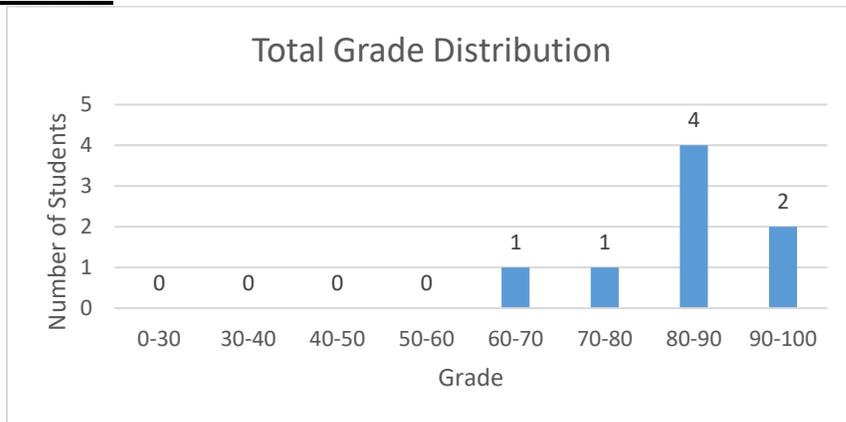
3. Comparison with past years
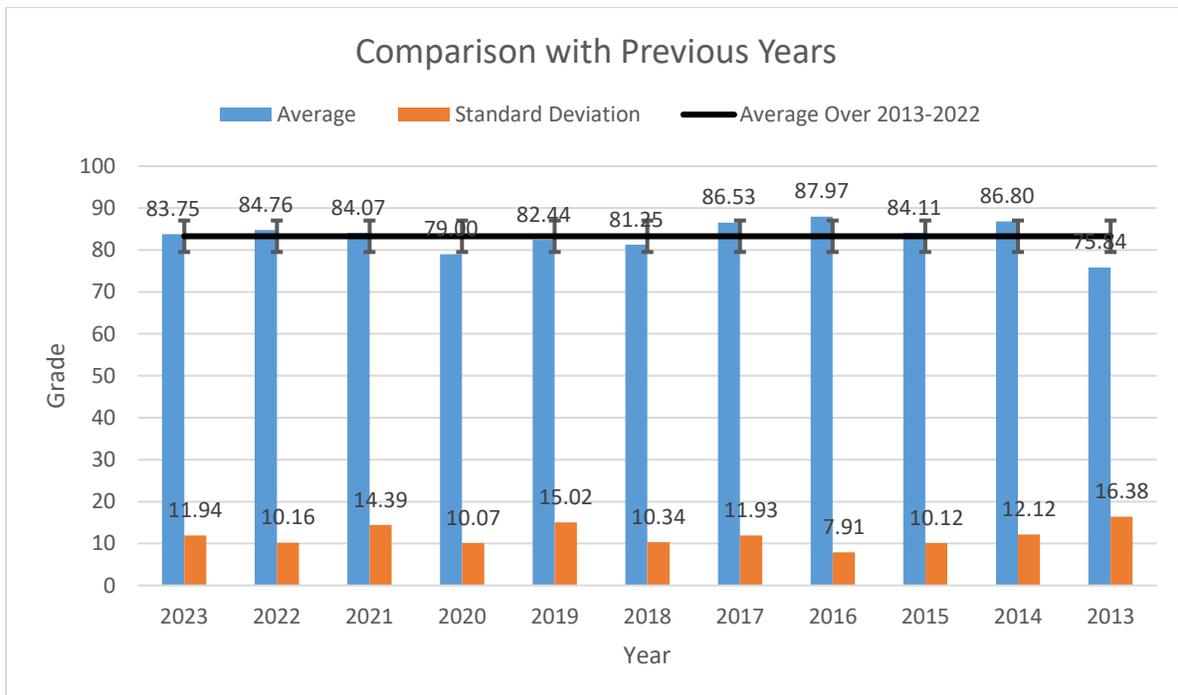
4. Individual problem breakdown

Individual scores per problem

Average values: Problem 1: 7.38, Problem 2: 8.38, Problem 3: 9.38
Standard Deviation values: Problem 1: 1.74, Problem 2: 1.46, Problem 3: 0.79

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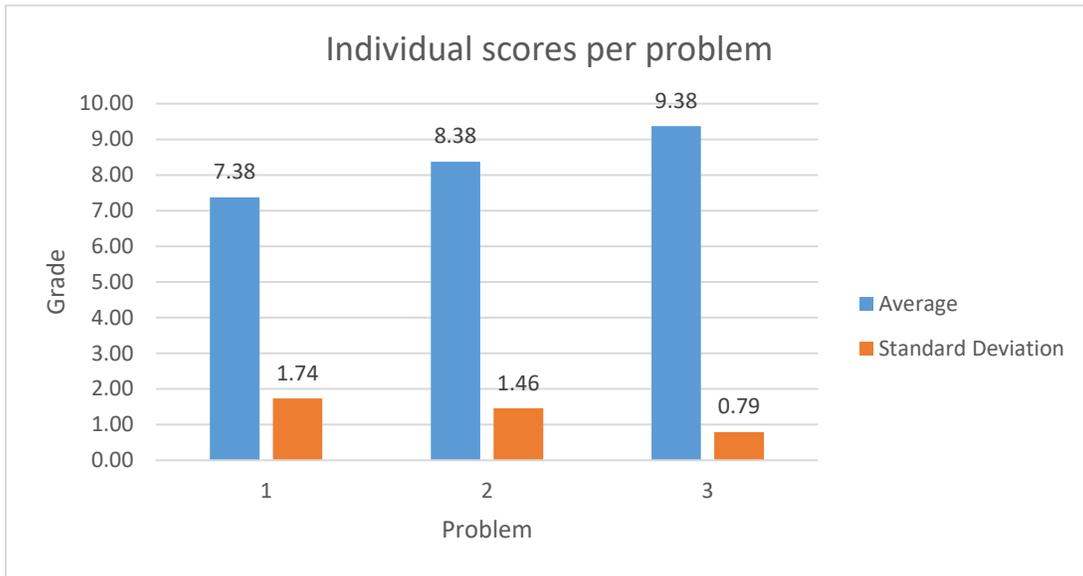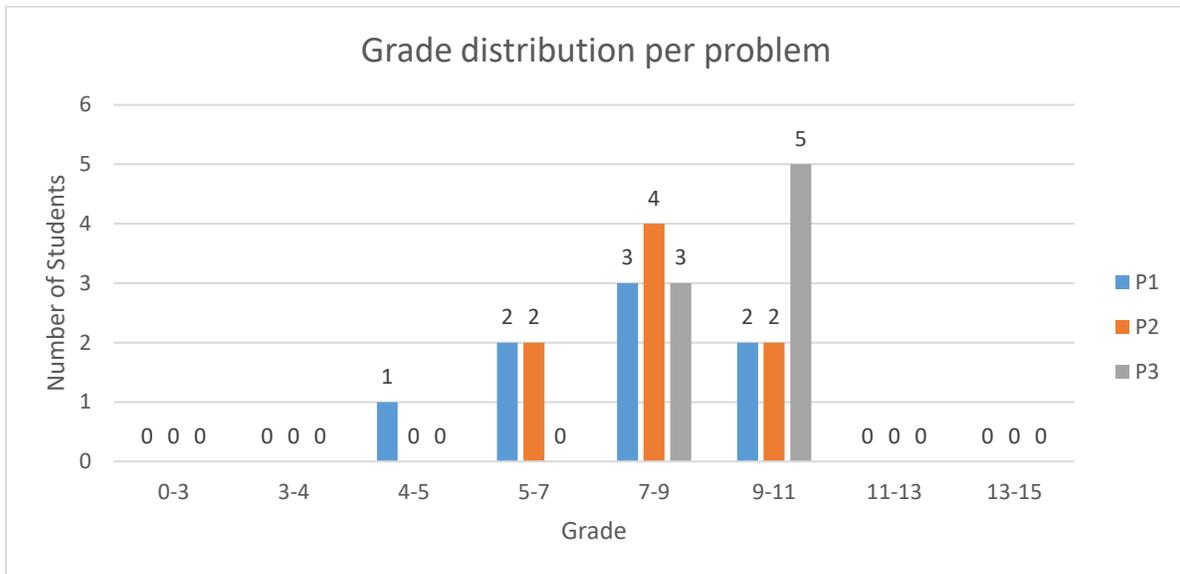
6. <u>Comments</u>

PROBLEM 1

- Only one student included the pressure force in the momentum equation
- Most students had problem in evaluating the pressure at section 1 using the manometer equation
- Two students could not obtain the resultant force in the y-direction

PROBLEM 2

- Six students did not apply the correct boundary condition at the air-water interface
- Two students solved the problem correctly
- Some students could not derive the expression for the wall shear stress and flowrate

PROBLEM 3

- Most of the students solved the problem correctly
- Three student could not obtain the correct Π_2 since they made mistakes in the linear system
- One student left the dimensionless parameters expressed as MLT, instead of their physical expression