

# Experiment Design for Computer Sciences

## Week 6 – Technical Review

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# Course Schedule

Sorry for the last minute cancellation last week!  
This is the rest of the course schedule:

## Class Schedule

- 06/09 – Review and Case Studies (TODAY)
- 06/16 – ANOVA and multiple comparisons (Chapter 10)
- 06/23 – Choosing experiments (Chapters 11 and 12)
- 06/30 – Final Presentation/Project review

## Report Schedule

- Report 1 – Finished
- Report 2 – 7/7
- Report 3 – 6/23 – We discuss it today
- Report 4 – 7/7

# Today: Technical Review

Today we will solve 2 out of 4 case studies contained in the “exercise.zip” file in MANABA.

For each case study, you have to do the following four tasks:

- Observe and describe the data (descriptive statistics)
- Define the question of interest and the necessary statistic
- Perform the statistical calculations (including testing assumptions)
- Present the results (tables and images)

For each case study, first I want you to try and solve it yourself (in your computers). Propose results and ask questions

## Report 3: Case Studies

The goal of report 3 is to **complete the 4 cases** in the exercise.zip file.

For each case, analyse the data, perform the necessary calculations, and present the results. The grade is as follows:

- Case Study 1 – Coin experiment: 10%
- Case Study 2 – Algorithm experiment 1: 10%
- Case Study 3 – Biodiversity experiment: 40%
- Case Study 4 – Shield Experiment: 40%

**Report Deadline:** 6/23 – Submit it on Manaba