

# Construction and Verification of Software

## Master Programme in Computer Science

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September 15, 2025

Lecture 2

We have **official dates!**

## Tests:

- Midterm: November 9th (Saturday), 10 am.
- Final-term: December 19th (Thursday), 9 am.

## Handouts:

- HO1: October 12st (Saturday)
- HO2: November 16th (Saturday)
- HO3: December 6th (Saturday)

# Functional Programming (2/3)

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## 1. proofs by induction

- induction on natural numbers
- beyond natural numbers: structural induction
- generalizing the induction hypothesis

- Software Foundations, Volume 1:  
`https://softwarefoundations.cis.upenn.edu/  
lf-current/index.html`  
(Chapter 2)