

# **Functional and Logic Programming**

## **Course Presentation**

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# Contents and objectives

- ▶ Introduction to the functional programming and logic programming paradigms
- ▶ Two modules:
  - Functional programming** lecturer Pedro Vasconcelos,  
7 weeks
  - Logic programming** lecturer Jácome Cunha, 6 weeks

# Teaching team

Lectures and practicals:

- ▶ Pedro Vasconcelos pbvascon@fc.up.pt
- ▶ Jácome Cunha jacome@fe.up.pt

Practicals:

- ▶ Daniel Silva
- ▶ Rui Camacho
- ▶ Alexandre Filho
- ▶ Gonçalo Leão
- ▶ Tiago Carvalho

# Course structure

**Lectures**  $2 \times 1$  h per week (Wednesdays 8h30-10h30,  
10h30-12h30)

**Lab classes** 2 h per week — check your schedule

**Moodle page** [https://moodle2526.up.pt/course/  
view.php?id=5001](https://moodle2526.up.pt/course/view.php?id=5001)

**Office hours** TBA

# Communication

- ▶ Use Moodle forum for **questions related to course contents**
- ▶ Email for other questions
  - ▶ Use from your **University email account**
  - ▶ Sign your messages  
(you were given a name at birth; use it!)

# Attendance

- ▶ Students **must** attend 75% of laboratory classes to be eligible for final assessment
- ▶ Students with worker status are exempt from this requirement

# Assessment

- ▶ 2 mini-tests *MT1, MT2* (one for each module)
- ▶ 2 practical assignments *TP1, TP2* (one for each module)
- ▶ The mini-tests are conducted in the labs in exam conditions
- ▶ The practical assignments are individual and can be done out of class but the **submissions are in the labs under exam conditions**
- ▶ The practical assignments **cannot** be re-submitted in the second epoch (“recurso”)
- ▶ The mini-tests **can** be retaken in the second epoch (“recurso”)

# Final classification

## Normal epoch

$$T = 50\%MT1 + 50\%MT2$$

$$P = 50\%TP1 + 50\%TP2$$

$$CF = 30\%P + 70\%T$$

## Second epoch (“recurso”)

$$CF = 30\%P + 70\%ER$$

(*ER* is the classification of the retake exam which can replace either or both MTs.)

# Academic integrity rules

- ▶ Assessments must be completed by the students individually
- ▶ Under exam conditions students must not:
  1. use mobile phones, smart watches or other personal electronic devices
  2. speak to other students
  3. attempt to copy other students solutions
  4. attempt to subvert the security safeguards of the laboratory computers
- ▶ Students who violate the above rules will **fail the course** and be reported to the faculty for improper behaviour
- ▶ We also run plagiarism testing tools on submissions
- ▶ In suspicious cases we will require students to confirm their knowledge via an extra test

# Generative AI

- ▶ The use of generative AI (ChatGPT, Copilot, etc.) for solving the exercises in lab classes is **discouraged**
- ▶ The point of the exercises is the **learning process** not just the final code
- ▶ Recomendation: disable AI completion tools in your editor and attempt the exercises on your own
- ▶ Don't be afraid to ask questions to the lecturers and TAs
- ▶ The use of the AI tools in exam conditions is a violation of the academic integrity rules