

# Tópicos de Informática para Automação

---

Mário Antunes

September 15, 2025

Universidade de Aveiro

# Professors

- **Name:** Mário Antunes
- **E-Mail:**  
[mario.antunes@ua.pt](mailto:mario.antunes@ua.pt)
- **Office:** 19.2.15 (IT1)



# Professors

- **Name:** Eurico Pedrosa
- **E-Mail:** [efpua.pt](mailto:efpua.pt)
- **Office:** Iris Lab



# Class Introduction

Covering the following topics:

- C1. Introduction to Command Line
- C2. Virtualization and Containers
- C3. Code Versioning and Collaboration
- C4. IP Networking Communication
- C5. Web Servers and Technology
- C6. Semistructured Data Manipulation
- C7. Document Compilation (Latex and Markdown)
- C8. GDPR, Intellectual Property, Ethics, and Professionalism in IT

- 50% Theory + 50% Practice
- Discrete: 25% Project 1 + 25% Project 2 + 50% Exam
- Final: 50% Final Exam + 50% Project

# Class Schedule

# Bibliography

- James F. Kurose and Keith W. Ross. 2021. Computer Networking: A Top-Down Approach (8th edition). Pearson.
- Python Networking 101: Navigating essentials of networking, socket programming, AsyncIO, network testing, simulations and Ansible, Odette Windows, GiftforGits, 2023
- Mailund, Thomas 2019 Introducing Markdown and Pandoc: Using Markup Language and Document Converter
- William Shotts 2019 The Linux Command Line, 2nd Edition - A Complete Introduction
- Paul McFedries 2023 HTML, CSS, & JavaScript All-in-One For Dummies