Introdução Engenharia Informática

Mário Antunes

September 15, 2025

Universidade de Aveiro

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

Professors

- **Name:** Joaquim Sousa Pinto
- **E-Mail:** jsp@ua.pt
- **Office:** 24.0.05 (IEETA)

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

Grading

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

Class Schedule

Date TP1/2	Date TP3	Date TP4	Topic	Description
15-09-2025	17-09-2025	18-09-2025	C0	Setup
22-09-2025	24-09-2025	25-09-2025	C1	Linux terminal
29-09-2025	01-10-2025	02-10-2025	C1	Windows terminal
06-10-2025	08-10-2025	09-10-2025	C2	Virtualization
13-10-2025	15-10-2025	16-10-2025	C2	Containers
20-10-2025	22-10-2025	23-10-2025	C2	Application containers
27-10-2025	29-10-2025	30-10-2025	C3	Git & Github
03-11-2025	05-11-2025	06-11-2025	C4	Network configuration
10-11-2025	12-11-2025	13-11-2025	C4	Network programing
17-11	19-11	20-11	C5	WebPage & deployment

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