# Introdução Engenharia Informática

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# Professors

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## 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