

1º CICLO | LICENCIATURA

Engenharia Informática

Direction

Tiago Miguel Pereira Candeias

Number of Semesters

6

ECTS

180

Access Conditions

About

ISMAT's Computer Engineering degree course trains graduates capable of taking on leading positions in computer engineering projects or in development and consultancy teams in the field of information systems engineering, taking on relevant roles in generating innovation and wealth through their training and attitude.

In this sense, students will obtain appropriate skills for designing, realising and maintaining computer systems, programming applications and developing systems, designing computer and communications architectures, managing information and knowledge systems, as well as understanding and solving the associated problems.

The course programme has been updated to respond to market needs and emerging areas.

Course Plan

Course Structure

1º Ano / Common Core

[Digital Systems](#) 6 ECTS | [Fundamentals of Physics](#) 6 ECTS | [Linear Algebra](#) 6 ECTS | [Mathematics I](#) 6 ECTS | [Programming Fundamentals](#) 6 ECTS | [Computer Architecture](#) 6 ECTS | [Discrete Mathematics](#) 6 ECTS | [Imperative Programming](#) 6 ECTS | [Mathematics II](#) 6 ECTS | [Probabilities and Statistics](#) 6 ECTS |

2º Ano / Common Core

[Computer Networks](#) 6 ECTS | [Databases](#) 6 ECTS | [Object-Oriented Programming](#) 6 ECTS | [Operating Systems](#) 6 ECTS | [Software Engineering](#) 6 ECTS | [Algorithms and Data Structures](#) 6 ECTS | [Business-Systems Architecture](#) 6 ECTS | [Graphic Computing](#) 6 ECTS | [Information Systems Security](#) 6 ECTS | [Supplements for Networks](#) 6 ECTS |

3º Ano / Comon Core

[Decision Support Systems](#) 6 ECTS | [Embedded Systems](#) 6 ECTS | [Human-Machine Interaction](#) 6 ECTS | [Information Systems](#) 6 ECTS | [Web Programming](#) 6 ECTS | [Artificial Intelligence](#) 6 ECTS | [Distributed Computing](#) 6 ECTS | [Final Course Work](#) 18 ECTS |