

INFORMATION TECHNOLOGY

Degree(s)	: Management; Finance
Type	: Compulsory course unit
Curricular year/semester	: 2nd year / 1st Semester
ECTS / hours per week	: 6 ECTS / 4.0 Hours
Workload per week	: 2 Theoretical / Practical x 2.0 Hours
Teacher responsible	: Professor Jesualdo Cerqueira Fernandes

OBJECTIVES

- To understand the basic concepts of information systems and information technology.
- To learn methods and techniques of information systems analysis and database design.
- To use Microsoft Excel and Access in managerial work.

PROGRAM

- Information systems: concepts and definitions;
- Hardware. Types of computers. Computer components;
- Software: Types of software and programming languages;
- Computer networks and the Internet. Electronic Commerce;
- Using Microsoft Excel in business problems;
- Introduction to software development methods and techniques- Database technology;
- Information systems analysis: Entity-relationship model;
- Systems analysis software: Managing business processes and CASE tools (Computer-Aided Software Engineering);

- Implementing databases using a relational database management system.

BIBLIOGRAPHY

Recommended Bibliography:

- Alves, J., ACCESS 2010 - Depressa & bem., Lisboa: FCA., 2010
- Rainer Jr., K. & Turban, E., Introduction to information systems: enabling and transforming business, Rainer Jr., K. & Turban, E. (2009). Introduction to information systems: enabling and transforming business (2nd edition). Hoboken: Wiley. , 2009
- Rodrigues, L. S., Utilização do Excel 2010 para Economia & Gestão., Rodrigues, L. S. (2010). Utilização do Excel 2010 para Economia & Gestão. Lisboa: FCA., 2010

Optional Bibliography:

- Barroso, M. N., Couto, E., & Crespo, N. (2008). Cálculo e Instrumentos Financeiros da Prática à Teoria., 2008