MANAGEMENT INFORMATION SYSTEMS

Degree(s)	: Management
Type	: Compulsory course unit
Curricular year/semester	: 2nd year / 2nd Semester
ECTS / hours per week	: 6 ECTS / 4.0 Hours
Workload per Week	: 2Theoretical/Practical x 2Hours
Teacher responsible	: Professor António Maria Palma dos Reis

OBJECTIVES

- Discussing the usage of information systems and technologies in business.
- Understanding the tools and techniques for planning, designing and developing information systems.
- Consolidation of the material through practical cases.

PROGRAM

- Developing Information Systems;
- Fundamentals of Object Oriented Design;
- Unified Modeling Language (UML);
- Presentation of CASE and ERP tools;
- Implementation in Access;
- Strategic Management of Information Systems.

BIBLIOGRAPHY

Recommended Bibliography:

- Nunes, Mauro, O'Neill, Henrique, *Fundamental de UML* - 6ª Edição, ISBN: 972-722-481-4. (cota na biblioteca: QA76.76.N85 2004)
- Alves, Joaquim, *ACCESS 2010- Depressa & bem*. Lisboa: FCA, Editora de Informática. (cota na biblioteca da versão 2007: QA76.9.D3.A49 2009)
- Silva, Alberto, Videira, Carlos (2005). *UML Metodologias e Ferramentas CASE*, 2ª Edição, Centro Atlântico, Publishing Ld, ISBN: 989-615-009-5. (cota na biblioteca: QA76.758.S55 2001)
- Palma-dos-Reis, António (2001). *Gestão Estratégica de Sistemas de Informação*, Universidade Aberta, ISBN: 972-674-337-0 (cota na biblioteca: HD30.28.R45 2001)
- Dennis, Wixom, Tegarden (2006). *Systems Analysis and Design with UML Version 2.0: An Object-Oriented Approach,* *2nd Edition*, Wiley, ISBN: 978-0-471-65920-4. (cota na biblioteca: QA76.9.S88.D45 2005)

Optional Bibliography:

- Applegate, Lynda M.; Warren McFarlan e James McKenney, *Corporate Information Systems Management - The Challenges of Managing in an Information Age,* Richard D. Irwin, 1999.
- Guide to the Software Engineering Body of Knowledge (SWEBOK), IEEE Computer Society , chapter 2, http://www.swebok.org/
- Loureiro, Henrique, Curso Avançado de Programação em Access com VBA, ISBN:972-722-426-1.
- Oestereich, Bernd, *Developing Software With UML*, Addison Wesley, second edition, 2002 - ISBN: 0-201-75603-X.
- Rainer, R.K., Turban, E., Potter, R. E. (2007). Introduction to *Information System,* John Wiley and Sons, Inc., ISBN: 0-471-73636-8

- Robson, Wendy, *Strategic Management and Information Systems: An Integrated Approach*, Pitman Publishing Ltd, 1996.
- Silva, Firmino e Alves, José A., *ERP e CRM*, Centro Atlântico, Lda, 2000 - ISBN: 972-8426-31-3.
- Teorey, Toby J., *Database Modeling & Design*, Morgan Kaufmann Publishers, 1999.