

Course Unit	Information Systems Management		Field of study	Information Systems	
Bachelor in	Management Informatics		School	School of Technology and Management	
Academic Year	2023/2024	Year of study	3	Level	1-3
Type	Semestral	Semester	2	ECTS credits	6.0
Code	9186-709-3203-00-23				
Workload (hours)	162	Contact hours	T -	TP 60	PL -
			TC -	S -	E -
			OT -	O -	

T - Lectures; TP - Lectures and problem-solving; PL - Problem-solving, project or laboratory; TC - Fieldwork; S - Seminar; E - Placement; OT - Tutorial; O - Other

Name(s) of lecturer(s) João Paulo Ribeiro Pereira

### Learning outcomes and competences

At the end of the course unit the learner is expected to be able to:

1. Plan, manage and maintain Information Systems in organizations. The student should be able to analyze and project the architecture of an Information system.
2. Moreover, he will be able to deploy "back office" (ERP), "front office" (CRM) and integrated supply chain management (SCM) solutions, in a methodological, structured and inclusive way
3. Understand what is the Information Systems Management in the organization
4. Recognize the skills and the core characteristics of Information Systems managers of today
5. Discuss limits and content of the various activities of intervention that makes use of Information Systems Management
6. Know the reasons, motivations, problems and performance of the business-planning Information Systems
7. Understand the role of IT in meeting strategic business objectives

### Prerequisites

Not applicable

### Course contents

Information Systems Management; architectures and IS / IT; characterization of some of the most important Information Systems; decision support systems; Outsourcing in IS; ERP; CRM; SCM; and resolution of Case-Studies.

### Course contents (extended version)

1. Information Systems Management
  - Information and Information Systems Management
  - Information Systems Planning
  - Information Systems Development
  - Information Systems Exploration
2. Information Systems and Information Technologies Architectures
  - Information Systems Architecture
  - Problems and difficulties
  - Utility, benefits and features
  - Models of IS Architectures
3. Enterprise Information Systems
  - Enterprise Resource Planning (ERP)
  - Customer Relationship Management (CRM)
  - Supply chain management (SCM)
  - Balanced Scorecard (BSC)
4. Strategic Application of Information Technology
  - Improve business processes and decision making
  - Development of strategic modules in Visual Basic for Applications (VBA) and Python

### Recommended reading

1. André Blokdijs (2014) Planning and Design of Information Systems. Academic Press.
2. Oz, Effy (2009) Management Information Systems (Sixth Edition). Thomson, USA.
3. Lopes, F. C. , Morais, M. P. : Carvalho, A. J. (2009) Desenvolvimento de Sistemas de Informação, Métodos e Técnicas. FCA, Lisboa
4. Abramowicz, Witold ; Mayr, Heinrich C. (2007) Technologies for Business Information Systems. Springer.
5. Wagner, B. , & Monk, E. (2012). Enterprise Resource Planning (4th. Ed. ). Boston: Course Technology.

### Teaching and learning methods

Theoretical-Practical Classes: presentation of programmatic content and exercising of the acquired knowledge (60 Hours). Work at Home (92 hours): individual study; research and consultation of literature; resolution of practical works; practice with laboratory tools.

### Assessment methods

1. Alternative 1 - (Regular, Student Worker) (Final, Supplementary, Special)
  - Practical Work - 40% (VBA and Python)
  - Practical Work - 10% (Class assignments)
  - Final Written Exam - 50% (Minimum grade for the written exam: 7 points)
2. Alternativa 2 - (Regular, Student Worker) (Supplementary, Special)
  - Practical Work - 40% (VBA and Python)
  - Final Written Exam - 60% (Minimum grade for the written exam: 7 points)

### Language of instruction

Portuguese, with additional English support for foreign students.

Electronic validation			
João Paulo Ribeiro Pereira	Tiago Miguel Ferreira Guimaraes Pedrosa	José Carlos Rufino Amaro	Nuno Adriano Baptista Ribeiro
29-02-2024	14-03-2024	16-03-2024	17-04-2024

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