

Course Unit	Unit Information Systems			Field of study	Information Systems	
Bachelor in	Management Informatics			School	School of Technology and Management	
Academic Year	2022/2023	Year of study	1	Level	1-1	ECTS credits 6.0
Туре	Semestral	Semester	2	Code	9186-709-1205-00-22	
Workload (hours)	162	Contact hours			C - S - solving, project or laboratory; TC	E - OT - O - Fieldwork; S - Seminar; E - Placement; OT - Tutorial; O - Other

Name(s) of lecturer(s)

João Paulo Ribeiro Pereira, Marisa Cristina Torrado Ortega

Learning outcomes and competences

- At the end of the course unit the learner is expected to be able to: 1. Plan, manage and maintain IS in organizations. a) technical skills- analyze, design and management models, architectures and software; b) Social skills- intervene in organizational situations.
- To acquire a socio-technical attitude towards informatics in organizations, reflected in the theories, methodologies and models to be used (Will use these and other methods in practical situations).

Prerequisites

Not applicable

Course contents

Information and Systems; Systems and Information Technology; Information Systems development; Information Systems development process; and Information Systems Planning.

Course contents (extended version)

- Course contents (extended version)

 1. Information and Systems
 The field of Information Systems and Information Technology
 System concept and basic characteristics
 Data, information and knowledge
 Big Data concept
 2. Information Systems and Information Technology
 Importance of Information Systems (IS)
 Information Systems in the Organization
 Information Technology (IT)
 Information Management
 Types of Information Systems: TPS, MIS, DSS and EIS
 Information Systems Evolution: : ERP; CRM; SCM and BI
 Information Systems Planning, Development and Management (ISP, ISD, and ISM)
 Information Systems and Society: Cybercrime, Security; Ethical, Legal, and Social Issues
 3. Information Systems development process
 Information Systems development process
 Information Systems development process
 Preliminary Study
 Requirements identification and description
 Process Modeling (Use Cases) and Data Modeling (ERD and Normalization)
 Design
 Testing and Implementation
 Testing

- Design
 Testing and Implementation
- Maintenance

Recommended reading

- Laudon, K. e Laudon, J. (2017), Management information systems: managing the digital firm. Prentice Hall.
 Reynolds, George Walter, Stair, Ralph M. (2018), Principles of information systems -Thirteenth Edition, Cengage Learning.
 Serrano, A.; Fialho, C. (2005) Gestão do Conhecimento 2ª Edição Aumentada. FCA, Lisboa.
 Lopes, F. C., Morais, M. P.; Carvalho, A. J. (2005) Desenvolvimento de Sistemas de Informação, Métodos e Técnicas. FCA, Lisboa.

Teaching and learning methods

Theoretical-Practical classes: presentation of theoretical concepts related to Information Systems (IS), IS development methodologies and IS project management. Resolution of project management exercises. Out of classes: Individual and group study of the topics given in theoretical and practical classes.

Assessment methods

- Alternative 1 (Regular, Student Worker) (Final, Supplementary, Special)
 Practical Work 40%
 - Practical Work 40%
 Final Written Exam 60% (Minimum grade for the written exam: 7 points)

Language of instruction

- 1. Portuguese
- 2. Portuguese, with additional English support for foreign students.

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	Electronic validation				
	João Paulo Ribeiro Pereira, Marisa Cristina Torrado Ortega	José Luís Padrão Exposto	José Carlos Rufino Amaro	Nuno Adriano Baptista Ribeiro	
ſ	21-02-2023	23-02-2023	04-03-2023	27-03-2023	