

Course Unit	Information Tecnologies			Field of study	Informatics	
Bachelor in	International Business Management			School	School of Technology and Management	
Academic Year	2023/2024	Year of study	1	Level	1-1	ECTS credits 6.0
Туре	Semestral	Semester	1	Code	8487-711-1106-00-23	
Workload (hours) 162 Contact hours T - TP 50 PL - TC - S - E - OT 10 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) Rui Pedro Sanches de Castro Lopes, Cosmin Constantinescu, Leandro Ismael Pereira Alexandre

Learning outcomes and competences

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

- Identify different types of technologies and information systems Model organizational environments

- Wood of signification a environments
 Use productivity tools for organizational management
 Take advantage of the advanced data manipulation mechanisms of a spreadsheet
 Develop database applications
 Integrate database applications with spreadsheets

Prerequisites

Before the course unit the learner is expected to be able to: Demonstrate basic skills in the use of Windows operating system

Course contents

Concepts of technologies and information systems; Organizational environments modeling; Organizational productivity tools; Excel in organizational management; Data modeling; Development of Access applications; Integration of Access with Excel.

Course contents (extended version)

- Information Technologies
 Introduction to information technologies
 - Hardware technology Network technology
- Web technologies
 Information technologies and business
 Organizational environments modeling
- Productivity Tools
 Email Tools

 - Presentation Tools
 Word Processing
 Structure of a document
 - Format a document
 - Styles Objects

 - Indexes
- Merge
 Spreadsheet
 Structure of a spreadsheet
 - Sorting and filtering
 Graphics

 - Formulas and functionsPivotTables reports and PivotCharts
- Lists and Databases
 Databases
- - Data modelingStructure of a database
 - Forms Queries

 - ReportsIntegration of databases with Excel

Recommended reading

- Apache Foundation. (2022). Getting Started with Derby (10. 16). https://db. apache. org/derby/docs/10. 16/getstart/getstartderby. pdf
 Bocij, P., Greasley, A., & Hickie, S. (2018). Business information systems: Technology, development and management for the modern business (Sixth Edition). Pearson.
 Edition, T. E. (2014). Information Systems for Business and Beyond (Illustrated edition). Lulu. com.
 Ledger, L. J. (2022). Excel 2022: The most updated bible to master Microsoft Excel from scratch in less than 7 minutes a day. Independently published.

Teaching and learning methods

Lectures of theoretical and practical nature to expose contents and application of knowledge obtained based on problem solving, individual study, bibliographic search and practical work.

Assessment methods

- Alternative 1 (Regular, Student Worker) (Final, Supplementary)
 Practical Work 60%
 Final Written Exam 40%
- 2. Alternative 2 (Regular, Student Worker) (Special)

Assessment methods

- Final Written Exam - 100%

Language of instruction

English

Electronic validation

	Licotroffic validation				
	Rui Pedro Sanches de Castro Lopes	Tiago Miguel Ferreira Guimaraes Pedrosa	Nuno Filipe Lopes Moutinho	José Carlos Rufino Amaro	
	11-10-2023	25-10-2023	25-10-2023	31-10-2023	