

Bachelor in Law for Solicitors School School of Public Management, Communication and Tourism Academic Year 2022/2023 Year of study 2 Level 1-2 ECTS credits 6.0 Type Semestral Semester 2 Code 9242-317-2205-00-22 Workload (hours) 162 Contact hours T - TP 30 PL 30 TC - S - E - OT 20 O -	Course Unit	urse Unit Database Management Systems			Field of study	Informatics	
Type Semestral Semester 2 Code 9242-317-2205-00-22	Bachelor in	Law for Solicitors			School	School of Public Management, Communication and Tourism	
	Academic Year	2022/2023	Year of study	2	Level	1-2	ECTS credits 6.0
Workload (hours) 162 Contact hours T - TD 30 DI 30 TC - C - TD 30 O	Туре	Semestral	Semester	2	Code	9242-317-2205-00-22	
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) Anabela Neves Alves de Pinho

Learning outcomes and competences

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

- 1. Acquiring the necessary knowledge to develop relational databases projects.
 2. Using SQL (Structured Query Language) to perform queries to databases.
 3. Accomplishing a proactive approach in relation to IS / IT, looking constantly update itself.

Prerequisites

Before the course unit the learner is expected to be able to: Not applicable.

Course contents

Introduction to Databases; Relational Databases project; The SQL Language; Microsoft Access Database Management System.

Course contents (extended version)

- 1. Introduction to Databases

 - GeneralitiesInformation Models
 - Specific Languages to Databases
 Database Manager
 Database Administrator

 - Database Users
 - Structure of a database management system
- 2. Relational Databases Project
 3. The SQL Language
- - Introduction
 Basic Structure
- Operations between sets
 Operations with multiple tables
 Operations between an element and the set
 Tuples of variables

- Tuples of Variables
 Comparing data sets
 Ordering of tuples
 Aggregation Functions
 Data manipulation (Insert , Update and Delete commands). Views.

 4. Management System Database Microsoft Access.

Recommended reading

- Damas, L. (2017). SQL. (14ª Ed. Atualizada e Aumentada). FCA Editora de Informática. ISBN 978-972-722-829-4.
 Pereira, J. L. (1998). Tecnologia de Bases de Dados. (3ª ed.). FCA Editora de Informática. ISBN 972-722-143-2.
 Pinho, Anabela (2023). Textos de apoio de Sistemas de Informação para a Gestão.
 Silberschatz, A.; Korth, H.; Sudarsham, S. (2020). Database Systems Concepts. (7ª ed.). McGrawHill. ISBN 978-007-802-215-9.
 Sousa, S. (2012). Domine a 110% Access 2010, FCA Editora de Informática. ISBN 978-972-722-707-5.

Teaching and learning methods

This curriculum unit will be taught through theoretical and practical lessons (always with the theoretical framework and then examples / exercises), and, if necessary, can be a follow-up lessons to work.

Assessment methods

- Distributed Evaluation (Regular, Student Worker) (Final, Supplementary, Special)
 Final Written Exam 50% (Minimum score of 8 points.)
 Practical Work 50% (Minimum score of 8 points and defense compulsory labor.)
 Exchange students (Regular, Student Worker) (Final, Supplementary, Special)
 Practical Work 100%

Language of instruction

Portuguese, with additional English support for foreign students.

	Electronic validation			
	Anabela Neves Alves de Pinho	Susana Isabel Pinto Ferreira dos Santos Gil	Elisabete da Anunciacao Paulo Morais	Luisa Margarida Barata Lopes
Γ	23-02-2023	24-02-2023	24-02-2023	24-02-2023