

LBAW 2018/2019

Master in Informatics and Computing Engineering
Database and Web Applications Laboratory
Instance: 2018/2019

Database and Web Applications Laboratory (Laboratório de Bases de Dados e Aplicações Web)

In this course, the students will learn how to design and develop web-based information systems backed by database management systems.

General Information

- Course Unit: [Fact sheet \(Ficha da UC\)](#) | [Contents \(Plano\)](#)
- SIGARRA (MIEIC): [English](#) | [Português](#) | [Summaries](#) | [Students](#) | [Photos](#) | [Classes](#) | [Schedule](#) | [Lectures \(B001\)](#)
- SIGARRA (MIB): [English](#) | [Português](#) | [Summaries](#) | [Students](#) | [Photos](#) | [Classes](#)
- Coordinators: [João Correia Lopes](#) | [Sérgio Nunes](#)
- Attendance hours: Tuesday, 16:30, I003 (João Damas)

Assessment Details

- Practical work: [By-laws \(Regulamento\)](#) | [Proposals \(Temas\)](#) | [Groups \(Grupos\)](#)
- Artefacts: [Requirements & UI \(A1-A3\)](#) | [Database \(A4-A6\)](#) | [Architecture \(A7-A9\)](#) | [Product \(A10-A11\)](#)
- Mini-test: [Dates & logistics](#)

Course Materials

- Classes: [Lectures \(Teóricas\)](#) | [Practical classes \(Práticas\)](#)
- More materials: [MediaLibrary@2018](#) | [Templates for artefacts](#) | [Computational resources \(Tecnologias\)](#)
- Discussion Forum: [Moodle](#)

Plan

Week	Date w.	Lecture (B001)	Practical	Assessment
1	11/02/2019	Introduction to Course. Project presentation. Actors and user stories. [Class]	Working groups and project themes. Project presentation (A1). [Class]	—
2	18/02/2019	Web Interaction Design. [Class]	Actors and User stories (A2). [Class]	A1
3	25/02/2019	Basics of Visual Design. [Class]	User Interfaces Design (A3). [Class]	A2
4	04/03/2019	Conceptual Data Model. Database specification. Relational Schema. Relational Schema validation. [Class]	Implementation of the user interfaces (A3). [Class]	—
5	11/03/2019	Database tuning. Physical Schema. Indexes. PostgreSQL. [Class]	Conceptual Data Model (A4). [Class]	A3
6	18/03/2019	Integrity and security. Triggers. Transactions. User-defined functions. [Class]	Relational Schema, validation and schema refinement (A5). [Class]	A4
7	25/03/2019	Web applications: history, architectural models and server-side web technologies. [Class]	Integrity constraints. Indexes, triggers and user functions. Database with data (A6). [Class]	A5
8	01/04/2019	Frameworks Web. Laravel. [Class]	High-level architecture. Privileges. Web resources specification (A7). [Class]	—
9	08/04/2019	Information Retrieval. [Class]	High-level architecture. Privileges. Web resources specification (A7). Vertical prototype (A8). [Class]	A6
10	15/04/2019	<i>Easter Holidays.</i> [Break]		
11	22/04/2019	Client web technologies and concepts: HTML5 APIs, Performance. [Class]	Main accesses to the database (SQL). Transactions (A9). Product development (A10). [Class]	A7, A8
12	29/04/2019	Uma perspectiva pessoal sobre startups, João Vasco Ranito. [Class]	Product development (A10). [Class]	A9, Minitest
13	06/05/2019	<i>Queima das fitas.</i> [Break]		
14	13/05/2019	Acessibilidade, Usabilidade e Inclusividade, António Silva e Bruno Giesteira. [Class]	Product development (A10). [Class]	—
15	20/05/2019	Security Automation, Pedro Rodrigues. [Class]	Product development (A10). [Class]	—
16	27/05/2019	Invited presentation. [Class]	Product development (A10). [Class]	—
17	03/06/2019	Product delivery (A10).		
18	10/06/2019	Presentation and discussion (A11).		

Recent changes

P: [22/04/2019](#) 23/04/2019 08:29 Correia Lopes

— *J. Correia Lopes, Sérgio Nunes*

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