

LBAW 2019/2020

Master in Informatics and Computing Engineering
Database and Web Applications Laboratory
Instance: 2019/2020

Database and Web Applications Laboratory

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](#)
- SIGARRA (MIEIC): [English](#) | [Português](#) | [Summaries](#) | [Students](#) | [Photos](#) | [Classes](#) | [Schedule](#) | [Lectures \(B003\)](#)
- SIGARRA (MIB): [English](#) | [Português](#) | [Summaries](#) | [Students](#) | [Photos](#) | [Classes](#)
- Coordinators: [João Correia Lopes](#) | [Sérgio Nunes](#)
- Monitor hours: Mondays (13h30, B107); Wednesdays (14h00, B107).

Assessment Details

- Practical work: [By-laws](#) | [Proposals](#) | [Groups](#) | [Group members](#) | [Deliveries](#)
- Artefacts: [All](#) | Requirements ([A1](#), [A2](#), [A3](#)) | Database Specification ([A4](#), [A5](#), [A6](#)) | Architecture ([A7](#), [A8](#)) | Product ([A9](#), [A10](#)) | [Demos](#)
- Checklists: [LBAW 1920: Checklists \(pub\)](#)

Course Materials

- Classes: [Lectures](#) | [Practical classes](#)
- More materials: [MediaLibrary](#) | [Templates for artefacts](#) | [Computational resources](#)
- Discussion Forum: [Moodle](#)

Plan

Week	Date	Lecture (B003)	Work	Assessment
1	10/02/2020	Introduction to Course. Project presentation. Actors and user stories. [Class]	Working groups and project themes. Project presentation (A1). [Class]	—

Week	Date	Lecture (B003)	Work	Assessment
2	17/02/2020	Web Interaction Design. [Class]	Actors and User stories (A2). [Class]	A1
3	24/02/2020	Basics of Visual Design. [Class]	User Interfaces Design (A3). [Class]	A2
4	02/03/2020	Conceptual Data Model. Database specification. Relational Schema. Relational Schema validation. [Class]	Implementation of the user interfaces (A3). [Class]	—
5	09/03/2020	Database tuning. Physical Schema. Indexes. PostgreSQL. [Class]	Conceptual Data Model (A4). [Class]	A3
6	16/03/2020	Integrity and security. Triggers. Transactions. User-defined functions. [Class]	Relational Schema, validation and schema refinement (A5). [Class]	A4
7	23/03/2020	Frameworks Web. Laravel. [Class]	Integrity constraints. Indexes, triggers and user functions. Transactions. Database with data (A6). [Class]	A5
8	30/03/2020	Web applications: history, architectural models and server-side web technologies. [Class]	High-level architecture. Privileges. Web resources specification (A7). [Class]	A6
9	06/04/2020	<i>Easter Holidays. [Break]</i>		
10	13/04/2020	Client web technologies and concepts: HTML5 APIs, Performance. [Class]	Vertical prototype (A8). [Class]	A7
11	20/04/2020	Information Retrieval. [Class]	Product development (A9). [Class]	A8
12	27/04/2020	<i>International Holiday (May 1st). [Break]</i>	Product development (A9). [Class]	—
13	04/05/2020	<i>Queima das fitas. [Break]</i>		
14	11/05/2020	Debate: Web Frameworks [Class]	Product development (A9). [Class]	—
15	18/05/2020	Monitoring of ongoing projects [Class]	Product development (A9). [Class]	—
16	25/05/2020	Monitoring of ongoing projects [Class]	Product development (A9). [Class]	—
17	01/06/2020	Product delivery (A9).		
18	08/06/2020	Presentation and discussion (A10).		

Recent changes

— J. Correia Lopes, Sérgio Nunes

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