Business Intelligence (188.429)

188.429, Business Intelligence VU, 4.0h, 6ETCS, Master Studies.

Course registration: until 06.10.2020 via TISS.

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All information, material, and exercises are available via TUWeL.

Goals and Preconditions

Goal of this course is to learn basic concepts from data warehousing, big data concepts, and data mining.

Organization

The course on *Business Intelligence (BI)* is organized in six lecture units, and four grading components (3 group assignments, one individual assessment).

Lectures:

- The course will be held **online** via Zoom. Please see link to Zoom in TUWeL.
- **No lecture recordings** will be provided.
- **Flipped classroom**. We will provide basic reading material prior to the lecture, collect questions from participants, and discuss selected aspects during the lecture.

LECTURE SCHEDULE

The lectures are scheduled on Thursday from 12:00-14:00 via Zoom. Please check TUWeL for updates and changes. The first lecture block focuses on data warehousing and big data concepts (Block 1.1-1.3) and the second lecture block addresses data mining concepts (Block 2.1-2.3)

01.10.2020	Preliminary Discussion, Zoom
08.10.2020	Block 1.1: Data Warehousing (DWH1)
15.10.2020	Block 1.2: Data Warehousing (DWH2)
05.11.2020	Block 1.3: BigData Concepts
19.11.2020	Block 2.1: Data Mining (DM1)
26.11.2020	Block 2.2: Supervised Learning (DM2)
03.12.2020	Block 2.3: Unsupervised Learning (DM3)

EXERCISES SCHEDULE

Please find assignments, guidelines, required material, and deadlines in TUWeL.

07.09.2020	TISS: Course Registration starts.
06.10.2020	TISS: Course (De-)Registration ends.
08.10.2020	TUWeL: Assignment 1 available
22.10.2020	TUWeL: Assignment 2 available
01.11.2020	TUWeL: Deadline Assignment 1
15.11.2020	TUWeL: Deadline Assignment 2
19.11.2020	TUWeL: Assignment 3 available
20.12.2020	TUWeL: Deadline Assignment 3

Note that assignments 1-3 should be solved in groups of two participants.

The three practical assignments as group work are complemented by an individual assessment (currently planned as presence event (written test) in January 2021, with a back-up/re-take sitting scheduled for March 2021).

For the assignments, you can receive the following points:

- Assignment 1 (group): max 20 points.
- Assignment 2 (group): max 30 points.
- Assignment 3 (group): max 50 points.
- Assignment 4 (individual test): max 100 points

Grading

To pass the course, you need

- **at least 35% for each assignment,**
- **at least 50% of the overall points for the course.**

Therefore, the following grading scale is applicable: N5: <=100 pts; G4: 101-125 pts; B3: 126-150 pts; U2: 151-175 pts; and S1: 176-200 pts.

Additional Information & Support

- TUWeL Forum
- Course Administration for specific questions.