Course title: Database Programming Course code: 62042 ECTS credits: 6 Requirements: None **Basic information** Level of studies: Master applied studies Year of study: 1 Trimester: 1 Goal: Becoming familiar with the limits of SQL language and the importance of working on database functionalities. Introducing students to the elements of a procedural language which is used for expansion of SQL capabilities, such as variables, conditional clauses, loops, etc, using PL/SQL language. Becoming familiar with PL/SQL components while using and creating procedures, functions, triggers. Outcome: Students are trained to create components written in a procedural language, such as procedures, functions, triggers, etc. Contents of the course Theoretical instruction 1. Basics 2. Defining variables and data types 3. Using SQL in PL/SQL 4. Cursors and parameters 5. Using procedures, functions and packages 6. Exceptions 7. Triggers Practical instruction (Problem solving sessions/Lab work/Practical training) 1. Students are trained to create PL/SQL components in Orcale Apex, which is used during theoretical classes.

Textbooks and References

- 1. Oracle 10g PL / SQL Programming Scott Urman, Ron Hardman, Michael McLaughlin, Mikroknjiga
 - 2. Oracle PL/SQL by Example, Benjamin Rosenzweig, Elena Silvestrova
- 3. Oracle Academy Curriculum, Oracle Database Programming with PL/SQL, 2011.

Number of active classes (weekly)

Lectures: 4

Practical classes: 1

Other types of classes: 1

Grading (maximum number of points: 100)

Pre-exam obligations: Points

Activities during lectures: 5

Activities on practical exercises: 20

Seminary work: 10

Colloquium: 20

Final exam: Points

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Written exam: 45

Oral exam: 0

Lecturer

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