Course title: Database Administration
Course code: 62040
ECTS credits: 6
Requirements: None
Basic information
Level of studies: Undergraduate applied studies
Year of study: 3
Trimester: 7
Goal: Introduction to the tasks and responsibilities of database administrators, the concepts that have an impact on the operation of a database, as well as the techniques to improve the performance of databases and applications that use databases. Understanding the tasks that protect and store data.
Outcome: Students should be able to explain the operation of a database management system; to use knowledge to perform tasks that improve the performance of databases and applications that use databases, and the tasks that store and protect the data contained in databases; to analyze data storage options and select the most optimal ones.
Contents of the course
Theoretical instruction
1. Data modeling and normalization
2. Database design
3. Application design
4. Database change management
5. DDL statements
6. Data availability
7. Database security
8. Data backup
9. Data management and storage
Practical instruction (Problem solving sessions/Lab work)
1. Performance of specific administrative tasks on the example of MS SQL Server.

Textbooks and References
1. Craig S.Mullins, Administracija baza podataka, Kompjuter biblioteka, 2003.
2. Craig S. Mullins, Database Administration, The complete guide to DBA Practices and Procedures, Second Edition, Addison-Wesley Professional, 2012
Number of active classes (weekly)
Lectures: 4
Practical classes: 2
Other types of classes: 1
Grading (maximum number of points: 100)
Pre-exam obligations: Points
Activities during lectures: 5
Activities on practical exercises: 15
Seminary work:
Colloquium: 20
Final exam: Points
Written exam: 60
Oral exam:
Lecturer
Danica Mamula Tartalja, PhD
Associate