

(Table 5.2) Course unit description

Study program: General economy; Business economy and management			
Type and level of studies: Undergraduate studies (first level)			
Course unit: Introduction to Database Systems			
Teacher in charge: Associate Professor, PhD Vladimir Ranković			
Language of instruction: English			
ECTS: 7 (seven)			
Prerequisites: /			
Semester: <i>Summer Semester</i>			
Course unit objective:			
<p>This is an introductory course on database management systems. It covers database design and the use of databases in applications. It includes extensive coverage of the entity-relationship model, relational model, relational algebra, and SQL. The course also features database design, relational design principles based on dependencies and normal forms, and basic principles of transactions.</p> <p>The objective of the course is to introduce the fundamental concepts of database systems, database design techniques, relational database systems, and build a solid foundation for advanced studies in database area.</p>			
Learning outcomes of Course unit			
Ability to:			
<ul style="list-style-type: none"> • Understand the basic concepts of databases, • Design and implement database, • Create queries using SQL language. 			
Course unit contents			
Lectures: Introduction to database management systems; Entity-Relationship (E-R) model; Relational data model; SQL language; Normal forms; Transaction management.			
Practical teaching: Lab classes, other methods of teaching, study research work.			
Literature			
Silberschatz, A., Korth, H.F., Sudarshan, S. (2010), Database System Concepts , Sixth edition, McGraw-Hill.			
Number of active teaching hours			Other classes
Lectures 45 (15X3)	Practice 30 (15X2)	Other forms of classes	
Teaching methods			
Examination methods (maximum 100 points)			
Exam prerequisites	No. of points:	Final exam	No. of points:
Student's activity during lectures	5	Computer based test	45
practical classes/tests	30+20		
Seminars/homework			
Project			
Other			

Grading System		
Grade	Bo. Of Points:	Description
10	91-100	Excellent
9	81-90	Exceptionally good
8	71-80	Very good
7	61-70	Good
6	51-60	Passing
5	0-50	Failing