

**(Table 5.2) Course unit description**

<b>Study program:</b> Business Informatics; Economics and business management			
<b>Type and level of studies:</b> Undergraduate studies (first level)			
<b>Course unit: Introduction to Database Systems</b>			
<b>Teacher in charge:</b> Vladimir Ranković			
<b>Language of instruction:</b> English			
<b>ECTS:</b> 7 (seven)			
<b>Prerequisites:</b> /			
<b>Semester:</b> Summer			
<b>Course unit objective:</b>			
<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>			
<b>Learning outcomes of Course unit</b>			
<p>Ability to:</p> <ul style="list-style-type: none"> <li>• Understand the basic concepts of databases,</li> <li>• Design and implement database,</li> <li>• Create queries using SQL language.</li> </ul>			
<b>Course unit contents</b>			
<p>Theoretical teaching: Introduction to database management systems; Relational model; SQL language.            Practical teaching: Lab classes, other methods of teaching, study research work.</p>			
<b>Literature</b>			
Silberschatz, A., Korth, H.F., Sudarshan, S. (2020), <b>Database System Concepts</b> , Seventh edition, McGraw-Hill.			
<b>Number of active teaching hours</b>			<b>Other classes</b>
Lectures 3	Practice 2	Other forms of classes	
<b>Teaching methods</b>			
<b>Examination methods (maximum 100 points)</b>			
<b>Exam pre requisites</b>	<b>No. of points:</b>	<b>Final exam</b>	<b>No. of points:</b>
Student's activity during lectures	0	Computer based test	80
practical classes/tests			
Seminars/homework	20		
Colloquiums			
Other			