

**Table 5.2. Course unit description**

Study program: Economics and business management, Business Informatics			
Type and level of studies: Undergraduate studies (first level)			
Course unit: <b>Mathematics in economics</b>			
Teacher in charge: Olivera Stančić			
Language of instruction: English			
ECTS: 8 (eight)			
Prerequisites: /			
Semester: Winter			
<b>Course unit objective:</b> The main objective of this course is to present some basic elements of mathematical theory and methodology as tools for defining, modeling, and solving problems in economics.			
<b>Learning outcomes of Course unit:</b> Enabling students to recognize, understand, and apply mathematical tools to solve different types of problems in economy.			
<b>Course unit contents</b> <i>Theoretical lectures:</i> The basic concepts, Linear algebra, Functions of one variable, Limits and Derivatives, One variable differential calculus, Indefinite integrals, Functions of several variables, Differential equations, Basics of the financial mathematics.  <i>Practical lectures:</i> The practical lectures are primarily interactive and examples of tasks dominate.			
<b>Literature</b> Arsen Melkumian, Mathematical Economics, Routledge, Oxon, 2011. (selected chapters) C. P. Simon, L. Blume, Mathematics for Economists W. W. Norton & Comp., New York 1994. (selected chapters) M. Drenovak, Matematika u ekonomiji, Komtek, Kragujevac, 2016. (selected chapters)			
<b>Number of active teaching hours</b>			<b>Other classes</b>
Lectures 3	Practice 2	Other forms of classes Independent work	
<b>Teaching methods</b>			
<b>Examination methods (maximum 100 points)</b>			
<b>Exam prerequisites</b>	<b>No. of points:</b>	<b>Final exam</b>	<b>No. of points:</b>
Student's activity during lectures	2	oral and written examination	60 (30+30)
practical classes/tests	38		
Seminars/homework	/		
Project	/		
Other			
<b>Grading System</b>			
<b>Grade</b>	<b>Bo. Of Points:</b>		<b>Description</b>
<b>10</b>	<b>91-100</b>		Excellent
<b>9</b>	<b>81-90</b>		Exceptionally good
<b>8</b>	<b>71-80</b>		Very good
<b>7</b>	<b>61-70</b>		Good
<b>6</b>	<b>51-60</b>		Passing
<b>5</b>	<b>0-50</b>		Failing