

Study program: Economics and business management and Business Informatics				
Type and level of studies: Undergraduate studies (first level)				
Course unit: Mathematics in Economics				
Teacher in charge: Olivera Stančić				
Language of instruction: English				
ECTS: 8 (eight)				
Prerequisites: /				
Semester: Winter				
Course unit objective: 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.				
Learning outcomes of Course unit: Enabling students to recognize, understand, and apply mathematical tools to solve different types of problems in economy.				
Course unit contents <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.				
Literature 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)				
Number of active teaching hours				Other classes
Lectures 3	Practice 2	Other forms of classes	Independent work	
Teaching methods				
Examination methods (maximum 100 points)				
Exam prerequisites	No. of points:	Final exam	No. of points:	
Student's activity during lectures	5	written examination	30	
practical classes/tests	60 (30+30)			
Seminars/homework	5			
Project	/			
Other				
Grading System				
Grade	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		