Study program:
Business Economics and Entrepreneurship (180 ECTS); Finance banking and insurance (240 ECTS)

Type and level of studies: Basic academic studies, first level of studies

Course title: MATHEMATICS FOR ECONOMISTS

Professor: Milošević Mimica

Course status: obligatory

EPSB Points: 8

Condition:
General knowledge in mathematics acquired in secondary school, enrolled in the II semester, lectures delivered and realized pre-exam obligations

Objective:
Demonstrating students the importance of using mathematical methodology in the sphere of business economics and entrepreneurship (basic concepts and methods in business mathematics that enable a higher level of efficiency in making business decisions), in particular mathematical models and procedures that have practical application in the field of economics education and entrepreneurs.

Outcome:
After passing the exam, the student knows the basic concepts of business mathematics and methods and techniques based on it to solve business problems in economics and business, understands the essence and range of mathematical methods and techniques used to solve business problems, and can demonstrate the ability to plan, prepare and implementation of solutions obtained using mathematical methods and techniques in solving business problems.

Contents of the course:
Theory teaching: Elements of linear algebra. Rows and sequences. Functions of a real variable. Application of functions in economics and business. Differential account. Application of Differential Account in Economy and Business. Integral account. Application of an integral account in the economy and business. Elements of probability theory. Elements of financial mathematics and insurance.
Practical teaching:
Closer clarification of some of the topics that are addressed in lectures. Creating tasks from the discussed topics from the lectures. Preparation of colloquium and exams. Evaluation of realized teaching and analysis of its results.

References:
[1]. Petrović Ž., (2009), Business Mathematics, FPE, Belgrade.
[2]. Boričić B., Ivović M. and Ilic M, (2014), Mathematics, Faculty of Economics, Belgrade.
[3]. Backović M., Vuleta J. and Popović, Z., (2014), Economic mathematical methods and models, Faculty of Economics, Belgrade.

Number of active classes	Theoretical classes: 3	Practical classes: 3

Methods of teaching:
Lectures are auditory, and they are performed at the amphitheater with all students. Exercises are conducted by groups of students in classrooms: (1) as auditory, where further topics are discussed; (2) as calculators for the production of tasks from the discussed topics from the lectures;

Knowledge assessment (maximum number of points 100)

Pre-exam obligations	Points 50	Final exam	Points 50
activity during lectures	20	Oral exam	50
colloquium-first	15		
colloquium-second	15		