Title:	Mathematics in economics
Lecture hours:	20
Lecture nours:	
Study period: (summer/winter)	Summer and winter semester
(summer/winter)	
Number of credits:	
Number of credits:	
Assessment methods:	Exam (test).
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	Assessment criteria:
	The percentage of points to obtain grades:
	[0% - 50%) - 2.0
	[50% - 65%) - 3.0
	[65% -75%) -3.5
	[75% - 85%) - 4.0
	[85% - 90%) - 4.5
	[91% -100%] -5.0
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Language of instruction:	English
Prerequisites:	none
Course content:	The main purpose of this course is the acquainting students with the introduction
Course content.	to higher mathematics and its applications in economics. The course consists of
	two parts: theoretical introduction and exercises.
	The main topics:
	Sequences and limits of sequences.  Fig. 11. 11. 11. 11. 11. 11. 11. 11. 11. 1
	<ul><li>Functions and limits of functions.</li><li>Functions of several variables with examples.</li></ul>
	<ul> <li>Trunctions of several variables with examples.</li> <li>The differential calculus.</li> </ul>
	Vector spaces.
	Matrix algebra.
	Linear equations.
	Illustraction of the application in economic analysis.
	After completing this course:
	- student has the basic knowledge in the selected area of mathematical analysis and elementary linear algebra,
	- student can apply selected mathematical methods in economy.
Learning outcomes:	Knowledge:
	K1: Student understands the role of mathematics in the economic analysis and
	research K2: Student knows the basic mathematical methods to solve economic problems
	Skills:
	S1: Student applies selected mathematical tools and methods to make economic
	analysis
	Social competences:

	SC1: Working independently the student develops his/her knowledge and skills of mathematics to solve the economic problems
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Literature:	1.Chiang A.C., Wainwright K., Fundamental Methods of Mathematical Economics, McGraw-Hill, 2005.     2. Pemberton M., Mathematics for Economists, Manchester University Press, 2015.     3. Allen R.G.D., Mathematical Analysis for Economists, Macmillan and Co, 2008