

Basic data of the subject			
Academic unit:	Faculty of Management		
Subject title:	Mathematics for Business		
Study level:	Bachelor		
Subject status:	Compulsory		
Year of study:	I		
Number of hours per week:	4		
Value of credits - ECTS:	6		
Lecturer of the subject:	Feride Qorrolli		
Contact details:	feride.qorrolli@ushaf.net		
Subject description			
	Basic concepts for unions and actions with the unions, the Association of real numbers and operations with real numbers, elements of linear algebra (the budget line), determinants, matrices and systems of linear equations, Understanding the function and its application, basic functions and their graph, strings of numbers and their application, limit of the string and function, Continuity of function, derivative function and its application, elements of financial mathematics.		
Pruppose of the subject:			
	The purpose of this module is to equip students with knowledge and skills for basic mathematical meanings, elements of financial mathematics, understanding the function, the way of giving function, some classes of functions, meaning matrices, derivative, etc. And the main goal is the implementation of their field of business and economy (their field of study), so the development of student skills and abilities to solve concrete problems in the economic field.		
Expected learning outcomes:			
	Upon successful completion of this module, students will be able to: <ul style="list-style-type: none"> • Have basic knowledge of the subject conceptual importance of Mathematics in business, • Know and understand the elements of linear algebra to solve problems in the field of business • Know the concept of chain and function, types of functions, their properties and applications. Their application in the economy. • Get to know the limit of function, derivative and its application in the study of functions. 		
The contribution of the student's learning (something that should be correspond with the result of the students learning)			
Activity	Hour	Day / week	Total

Lectures	2	15	30
Theoretical / laboratory exercises	2	15	30
Practical work			
Contacts with teacher / consultations	1	10	10
Field exercises			
Tests, seminars	3	2	6
Homework	1	10	10
Self learning time of the student (at the library or at home)	2	15	30
Final preparation for the exam	2	15	30
Time spent on evaluation (tests, quiz, final exam)	2	3	6
Projects, presentations, etc.			
Total			152

Teaching methodology:	Lectures and combined exercises and class discussions
Assesment methods:	Assessment of students' knowledge is based on the following activities: Test 1 - 45% Test 2 - 45% Participation and engagement in classes (10%) Final exam: 90%

Literature	
Basic literature:	<ul style="list-style-type: none"> ➤ N.L. Braha, V. Loku dhe Ilmi Hoxha, <i>Mathematics for economists</i>, 2016, Prishtina. ➤ Dr.Sc.Ajet Ahmeti, <i>Mathematics for economists</i>, Prishtina-2006.
Additional literature:	<ul style="list-style-type: none"> ➤ Dr.Sc. Faton Berisha and Dr.Sc. Muharrem Berisha, <i>Mathematics for Economics and Business</i>, Prishtina-2007 ➤ Dr.Sc.Razim Hoxha, <i>Summary of tasks solved from mathematics I</i>, Prishtina 2011.

Designed learning plan:	
Week	Topic that will be lectured
<i>First week:</i>	Mathematical basic concepts: 1. The numbers and their types 2. Unions and actions with Unions
<i>Second week:</i>	Basic mathematical operations: 1. The rules of mathematical operations 2. Numeric Scale
<i>Third week:</i>	Algebra: 1. Linear equations with one unknown

	<ol style="list-style-type: none"> 2. Linear equations with two unknowns 3. Inequations 4. Absolute value
Fourth week:	<p>Matrices:</p> <ol style="list-style-type: none"> 1. The meaning of matrices 2. Actions with matrices 3. Application of matrices
Fifth week:	<p>Determinants:</p> <ol style="list-style-type: none"> 1. Understanding determinants (of the second and third order) 2. Method of minors 3. Method of triangle 4. The method of Kramer
Sixth week:	<p>Application of matrices and determinants:</p> <ol style="list-style-type: none"> 1. Solving systems of linear equations with two unknowns 2. Solving systems of linear equations with three unknowns
Seventh week:	<p>The verses:</p> <ol style="list-style-type: none"> 1. The meaning of verses 2. Types of verses 3. Applying them in business and economics
Eighth week:	First Test
Ninth week:	Limit of the string
Tenth week:	<p>Functions with a variable:</p> <ol style="list-style-type: none"> 1. Forms of appearance of functions 2. The basic functions and their graph. 3. Application of them in business.
Eleventh week:	The limit of function
Twelwth week:	Continuity of function
Thirteenth week:	<p>Derivative function and rules of deriving</p> <p>Keys macroeconomic model</p>
Fourteenth week:	<p>Understanding and calculation of percentage</p> <p>Financial Mathematics:</p> <ol style="list-style-type: none"> 1. Basic concepts of financial mathematics 2. Calculation of investment 3. Calculation of interest 4. Simple and compound interest
Fifteenth week:	Second Test
Academic policies and rules of conduct:	
<i>Regular attendance, to maintain the peace and active engagement in dialogue during lectures and exercises is obligatory.</i>	

