Basic data of the subject				
Academic unit	Faculty of Management			
Program	Business Management and Entrepreneurship			
Subject	Business Mathematics			
Level	Bachelor			
Course status	Obligatory			
Year of studies	I			
Semester	Ī			
Number of hours per week	4			
Value of credits - ECTS	6			
Time/ Location	UASF			
Course lecturer				
Contact details				
Course description	Basic understading of sets and operations with sets; The set of real numbers and operations with real numbers; Elements of linear algebra (budget line equation), Determinants, Matrices and systems of linear equations; Understanding function and its			
	application; Basic functions and their graphs; Number strings and their application; String and function limit; Function continuity, Function derivative and its implementation; Elements of financial mathematics.			
Course objectives	The purpose of this module is to equip students with knowledge and skills for basic mathematical notions, elements of financial mathematics, the meaning of function, ways of representing functions, some classes of functions, the meaning of matrices, derivatives, etc., as well as their implementation in the field of business and economics (the field of their study), i.e. the development of skills and abilities of students to solve concrete problems in the field of economics.			
Expected learning outcomes	 Upon successful completion of this module, students will be able to: To gain basic conceptual knowledge about the importance of the subject of Mathematics in business, Understand the elements of linear algebra and their application in solving problems in the field of business Acquire the elements of financial mathematics. Know the concept of string and function, 			

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				, their properties and	
	a	pplication i	n economics.		
Contribution to the student load (which must correspond with learning outcomes)					
Activity	duein ioau (v	Hours	Days/Wee	Total	
rictivity		liouis	ks	1 Otal	
Lectures		2	15	30	
Theoretical exercises /	laboratory	2	15	30	
Internship			10	00	
Contacts with teacher/		1	10	10	
consultations			10	10	
Field exercises					
Midterm, seminars and projects.					
Homework		3	10	15	
Studying (at the library or at				45	
home)					
Final preparation for the exam		2	5	10	
Time spent on evaluation (tests,		3	2	6	
quiz and final exam)					
Projects and presentations		1	4	4	
Total				150	
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Teaching	Lectures and exercises combined with in-class discussions				
methodology Assessment methods	Description the corrector there will be true will be true to be to 11.45				
Assessment methods	During the semester there will be two written tests with 45 points each (tasks include open-ended questions and				
	-	•	-	-	
	multiple choice questions), or the student has the right to take only the final exam which has 90 points (written / oral				
	test), the test contains open-ended and multiple choice				
	questions. The student passes the exam if he or she				
	accumulates 50 points from all the evaluation criteria.				
	• 10 points - Activity and attendance,				
	_		•	s or the final exam	
	Jo Po		Willett Catelli	s of the illiar exam	
Teaching tools	Whiteboard, the Internet, wireless, computer, projector,				
	PowerPoint, etc.				
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Theory vs. practice	50% Practice, Tasks for independent work				
rat10	50% Lectures				
ratio	50% Practice, Tasks for independent work 50% Lectures				
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Literature	
Basic literature	1. N.L. Braha, V. Loku dhe Ilmi Hoxha, Matematika për
	ekonomistë, 2016, Prishtinë.
	2. Ian Jacques-Mathematics, for economics and business,
	ninth edition, 2018
Additional literature	1. Razim Hoxha, Përmbledhje detyrash të zgjidhura nga
	matematika I, Prishtinë-2011
Designated learning	
plan	
Week	Lecture
Week one	Basic mathematical notions:
	1. Numbers and their types
TAT 1	Sets and set operations
Week two	Basic mathematical operations:
	1. Rules of mathematical operations
	Numerical scale
Week three	Algebra:
	1. Linear equations in one variable
	2. Linear equations in two variables
	3. Inequations
7.7 1 4	Absolute value
Week four	Matrix:
	1. Understanding matrices
	2. Matrix operations
TAT. 1 (1)	Application of matrices
Week five	Determinants:
	1. Understanding the determinants (second and third order)
	2. The minority method
	3. The triangle method
TA71	Cramer's Rule
Week six	Application of matrices and determinants:
	1. Solving systems of linear equations in two variables
TAT 1	2. Solving systems of linear equations in three variables
Week seven	Sequence: Understanding sequence; Types of sequences;
	Their application in business and economics
Week eight	First written test
Week nine	Limit of sequence
Week ten	Functions of one variable:
	1. Ways of representing functions
	2. Elementary functions and their graphs.
7.7 1 7	Their application in business.
Week eleven	Limit of functions

Week twelve	Continuous function	
Week thirteen	Function derivatives and derivative rules; The	
	macroeconomic model	
Week fourteen	Understanding and calculating percentages	
	Financial mathematics:	
	1. Basic concepts of financial mathematics	
	2. Investment calculation	
	3. Calculation of interest rates	
	Simple and compound interest	
Week fifteen	Second written test	
Academic policies and rules of conduct		

The student is required to attend the lectures regularly and to have appropriate behavior towards the colleagues and the staff of the University, as well as to maintain order in the classroom and actively participate in lectures and exercises.