SYL	LA	BI

Basic data of the subject				
Academic unit	Faculty	of Managem	ent	
Subject	Busines	Business mathematics		
Level	Bachelor			
Course status	Mandat	tory		
Year of studies	Ι	· ·		
Semester	Ι			
Number of hours per week	4			
Value of credits - ECTS	6			
Time/ Location	USHAF	1		
Course lecturer	Prof. As.Dr. Valdete Loku			
Contact details	valdete.	loku@ushaf.ı	net	
Course description	Basic un	nderstading of	sets and operat	ions with sets; The set of
	linear al	gebra (budget	line equation	Determinants Matrices
	and syst	ems of linear e	austions. Unde	rstanding function and its
	and systems of inical equations, Onderstanding function and its application: Basic functions and their graphs. Number strings			
	and their application: String and function limit: Function			
	continui	tv Function	derivative a	nd its implementation.
	Element	s of financial	mathematics	na na mprementation,
Course objectives	The pur	pose of this mo	dule is to equir	students with knowledge
	and skills for basic mathematical notions, elements of financial			
	mathem	atics, the mea	ning of function	on, ways of representing
	functions some classes of functions the meaning of matrices			the meaning of matrices.
	derivatives etc. as well as their implementation in the field of			
	business	and econom	ics (the field	of their study), i.e. the
	develop	ment of skills a	and abilities of	students to solve concrete
	problem	s in the field o	of economics.	
Expected learning outcomes	Upon successful completion of this module, students will be			
	able to:			·
	• To gai	n basic concep	tual knowledge	e about the importance of
	the subj	ect of Mathem	atics in busines	SS,
	• 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,			
	• List the types of functions, their properties and application in			
	economics.			
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Contribution to the studen	t load (w	hich must cor	respond with	earning outcomes)
Activity		Hours	Days/Week s	Total
Lectures		2	15	30
Theoretical exercises / laborato	ry	2	15	30
Internship				
Contacts with teacher / consulta	ations	1	10	10
Field exercises				
Midterm, seminars and projects.				

Homework		3	10	15
Studying (at the library or at home)		5	10	45
Final preparation for the ayam		2	5	10
Time spont on evaluation (tests, quiz		3	2	6
and final exam)	(tests, quiz	5	~	0
Projects and presentation	8	1	4	4
Total	3	1		150
Total				100
Teaching methodology	Loctures and	vorcisos com	inad with in a	lass discussions
Assessment methods	During the sor	master there w	ill be two write	ton tosts with 45 points
Assessment methods	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	noints (written	/ oral test th	e test contains open-
	ended and multiple choice questions. The student passes the evan if			student passes the exam if
	the or she accumulates 50 points from all the evaluation criteria			e evaluation criteria.
	• 10 po	ints - Activity	and attendance	.
	• 90 po	ints – Two wri	tten exams or	the final exam
	- 90 po		chem examp or	
Teaching tools	Whiteboard t	he Internet wi	reless comput	er projector PowerPoint
Teaching tools	etc.	ne mennet, wi	reless, comput	er, projector, i oweri onit,
	010.			
Theory vs. practice ratio	50% Practice, Tasks for independent work			
	50% Lectures			
Literature	1			
Basic literature	1. N.L. Bra	iha, V. Loki	ı dhe Ilmi	Hoxha, Matematika për
	ekonomistë, 2016, Prishtinë.			
	2. Ian Jacques-Mathematics, for economics and business, ninth			
	edition, 20	018		1 11.11
Additional literature	I. Razım H	Hoxha, Përm	bledhje dety	rash të zgjidhura nga
	matematik	ka I, Prishtine-	2011	
Designated learning plan				
Wool	Looturo			
Wook one	Resignation	otical notions		
Week one	1 Numbers of	ad their types		
	Sets and set or	nerations		
Week two	Basic mathem	perations	ne.	
WEEK IWO	Dasic mathematical operations			
	Numerical sea	ale	ciutions	
Week three	Algebra			
week three	1 Linear equa	ations in one v	ariable	
	2 Linear equa	ations in two v	ariables	
	3 Inequations		u1100105	
	Absolute valu	e		
Week four	Matrix:	-		
	1. Understand	ing matrices		

	2. Matrix operations		
	Application of matrices		
Week five	Determinants:		
	1. Understanding the determinants (second and third order)		
	2. The minority method		
	3. The triangle method		
	Cramer's Rule		
Week six	Application of matrices and determinants:		
	1. Solving systems of linear equations in two variables		
	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.		
	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 a	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 lectu	res and exercises.		