

SYLLABUS

Basic data of the subject	
Academic Unit:	Faculty of Tourism and Environment
Course Title:	Elementary Mathematics for Business
Level:	Bachelor
Course Status:	Obligatory
Year of study:	I
Number of hours per week:	3
Credits - ECTS:	5
Time / location:	
Teacher of the course:	Feride Qorrolli Lubishtani
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Course Description:	
Course Description:	This course will cover the basic elements of Mathematics, including: Basic concepts for unions and actions with the unions, the Association of real numbers and operations with real numbers, elements of linear algebra, 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, derivative function and its application, elements of financial mathematics.
Course Objectives:	
Course Objectives:	The purpose of this module is to equip students with knowledge and skills for basic mathematical meanings, to fill gaps from pre-schooling, in order to be prepared for the job market. 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 outcomes of learning:	
Expected outcomes of learning:	<p><i>Upon successful completion of this module, students will be able to:</i></p> <ul style="list-style-type: none"> • <i>Have basic knowledge of the subject conceptual importance of Mathematics in business,</i> • <i>Know and understand the elements of linear algebra to solve problems in the field of business</i> • <i>adopt elements of financial mathematics.</i> • <i>Know the concept of chain and function, types of functions, their properties and applications. Their application in the economy.</i> • <i>Get to know the limit of function, derivative and its application in the study of functions.</i>

The contribution of the student's load (something that should correspond with the result of the students learning)			
Activity	Hour	Day / week	Total
Lectures	2	15	30
Theoretical / laboratory exercises	1	15	15
Practical work			
Contacts with teacher / consultations	1	6	6
Field exercises			
Tests, seminars	3	2	6
Homework	1	6	6
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	1	2
Projects, presentations, etc.			
Total			125
Teaching methodology:			
	<i>Lectures and combined exercises and class discussions</i>		
Evaluation methods:			
	<p>Assessment of students' knowledge is based on the following activities:</p> <p>Test 1 - 45%</p> <p>Test 2 - 45%</p> <p>Participation and engagement in classes (10%)</p> <p>Final exam: 90%</p> <p>(For those who do not show good results in tests)</p>		
Literature			
Basic literature:			
	<ol style="list-style-type: none"> 1. <i>Dr.Sc.Ajet Ahmeti, Mathematics for economists, Pristina-2006.</i> 2. <i>Dr.Sc.Razim Hoxha, Summary of tasks solved from mathematics I, Pristina 2011</i> 		
Additional literature:			
	<ol style="list-style-type: none"> 1. <i>N. L. Braha, V. Loku, Ilmi Hoxha, Mathematics for economists, Pristina-2016</i> 2. <i>Dr.Sc. Faton Berisha and Dr.Sc. Muharrem Berisha, Mathematics for Economics and Business, Pristina-2007</i> 		
Designed learning plan:			
Week	Topic that will be lectured		
<i>Week One:</i>	<p>Syllabus presentation.</p> <p>Mathematical basic concepts:</p>		

	<ol style="list-style-type: none"> 1. The numbers and their types 2. Unions and actions with Unions
Week Two:	Basic mathematical operations: <ol style="list-style-type: none"> 1. The rules of mathematical operations 2. Numeric Scale
Week Three:	Algebra: <ol style="list-style-type: none"> 1. Linear equations with one unknown 2. Linear equations with two unknown 3. Inequations 4. Absolute value
Week Four:	Matrices: <ol style="list-style-type: none"> 1. The meaning of matrices 2. Actions with matrices 3. Application of matrices
Week Five:	Determinants: <ol style="list-style-type: none"> 1. Understanding determinants (of the second and third order) 2. Method of minors <ol style="list-style-type: none"> 3. Method of triangle 4. The method of Kramer
Week Six:	Application of matrices and determinants: <ol style="list-style-type: none"> 1. Solving systems of linear equations with two unknowns 2. Solving systems of linear equations with three unknowns
Week Seven:	The verses: <ol style="list-style-type: none"> 1. The meaning of verses 2. Types of verses 3. Applying them in business and economics
Week Eight:	First Test
Week Nine:	Limit of the string
Week Ten:	Functions with a variable: <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.
Week Eleven:	The limit of function
Week Twelve:	Derivative function and rules of deriving
Week Thirteen:	Percentages: <ol style="list-style-type: none"> 1. Understanding the percentage 2. Calculation of percentage 3. Application of them into the economy
Week Fourteen:	Financial Mathematics: <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
Week Fifteen:	Second Test

Academic policies and rules of conduct:

Regular attendance, to maintain the peace and active engagement in dialogue during lectures and exercises is obligatory.