Basic data of the subject	
Academic Unit:	**Faculty of Architecture, Design and Wood Technology**
Program:	**Interior Architecture and Furniture Design**
Subject:	**Mathematics and Statistics**
Level:	**Bachelor**
Course Status:	**Mandatory**
Year of study:	**I**
Number of hours per week:	**4**
Credits – ECTS:	**7**
Time / location:	**UASF**
Teacher of the course:	
Contact details:	
Course Description	In the Mathematics and Statistics Course, we will first study elementary mathematics starting with basic notions, linear algebra including systems with two-three unknown, matrices and determinants. Then we will study geometry and measurement, analytical geometry. Part of the meaning of the percentages, then ranges, elementary functions and trigonometry will be included. This part covers about 70% of the subject, while 30% will be concentrated on the Statistics section, where will start with the basic elements of statistics, ways of data collection and processing, distribution characteristics.
Course objectives:	The purpose of this module is to provide students with knowledge and skills in basic mathematical understandings, geometry and measurement, analytical geometry, trigonometry and also some basic elements of statistic. But the main purpose is to apply them or link them to their field of study, that is, to develop students' skills and abilities to solve the specific problems of their field of study.
Expected outcomes of learning:	*Upon successful completion of this module, students will be able to:*

	• Have basic conceptual knowledge of the importance of Mathematics in Architecture, • Know and understand the elements of linear algebra in problem solving in the field of Architecture, • Apply trigonometry to problem solving. • Know the concept of range and function, types of functions, their properties and applications. • Apply basic concepts of geometry. • Know the basic concepts of statistics.

The contribution of the student's load (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	0	0	0
Contacts with teacher / consultations	1	10	10
Field exercises	0	0	0
Tests, seminars	3	2	6
Homework	1	10	10
Self-learning time of the student (at the library or at home)	2	25	50
Final preparation for the exam	2	15	30
Time spent on evaluation (tests, quiz, final exam)	3	3	9
Projects, presentations, etc.	0	0	0
Total			**175**

Teaching methodology:	*Lectures and exercises combined with class discussions*
Evaluation 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%

	(For those who do not show good results in tests)
Literature	
Basic literature:	1. Dr.Sc.Ajet Ahmeti, *Mathematics for economists*, Pristina-2006. 2. Braha, N., 2006, *The basics of statistics*, Pristina.
Additional literature:	1. Dr.Sc.Razim Hoxha, *Summary of tasks solved from mathematics I*, Pristina-2011 2. Dr.Sc.Xhevat Krasniqi, *Tasks selected and solved by mathematics 10,* Prishtinë 2014 3. Nuhiu, R. dhe Shala, A., 1995, *The basics of statistics*, Pristina

Designed learning plan:	
Week	**Topic that will be lectured**
Week One:	Mathematical basic concepts: 1. The rules of mathematical operations 2. The numbers and their types 3. Sets and actions with sets
Week Two:	Linear Algebra: 1. Linear equations with one unknown 2. Linear equations with two unknowns 3. Inequations 4. Absolute value
***Week Three*:**	Matrices and Determinants: 1. The meaning of matrices 2. Actions with matrices 3. The meaning of the determinants (of the second and third order)
Week Four:	Solving systems of linear equations with two and three unknowns
Week Five:	Geometry and measurement
Week Six:	Analytic Geometry
Week Seven:	Percentages: 1. Understanding the percentage 2. Calculation of percentage *First Test*
Week Eight:	Numerical sequences Limit of the sequences
Week Nine:	Functions with a variable: 1. Forms of appearance of functions

	2. The basic functions and their graph
Week Ten:	Trigonometry
***Week Eleven*:**	Basic elements of mathematical statistics
***Week Twelve*:**	Processing and presentation of statistical data - Sample
***Week Thirteen*:**	Empirical distribution characteristics: arithmetic mean, geometric mean, harmonic mean. The mode, the median.
***Week Fourteen*:**	Dispersion measures, quartiles, mean absolute deviation, variance, standard deviation, coefficient of variation. The regression and correlation equation.
***Week Fifteen*:**	Summary Second test

Academic policies and rules of conduct:
Regular attendance, maintain peace and active engagement in discussion during lectures and exercises is obligatory. Use of the telephone during assessments is strictly prohibited.