



**UNIVERSITY OF PRIZREN
FACULTY OF COMPUTER SCIENCE**

PROGRAM: SD

Curriculum - – SYLLABUS							
<i>Level of studies</i>	Bachelor	<i>Program</i>	SD	<i>Academic year</i>	2017/2018		
SUBJECT	Mathematics 1						
<i>Year</i>	I	<i>Status Of the subject</i>	Obligatory	<i>Code</i>		<i>ECTS credits</i>	6
<i>Semester</i>	1						
<i>Teaching weeks</i>	15		<i>Hours teaching</i>	60	<i>Lectures</i>	<i>Exercises</i>	
<i>Teaching Methodology</i>					2	2	
<i>Teaching Methodology</i>	Leksione , ushtrime .						
<i>Consultation</i>	1 ore/javë						
<i>The teacher</i>	Prof.Dr.Abdullah Zejnullahu			<i>E-mail:</i>	abdullah.zejnullahu@uni-pr.edu		
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				<i>Tel.:</i>			

Study goal and table of content	Benefits of student
The aim of the course is to enable students to acquire knowledge gained through this course as auxiliary equipment in the study of computer science courses.	<p>After completing this course the student will be able to:</p> <ul style="list-style-type: none"> - To solve and design different problems in the profession of his profession when dealing with real and complex number operations. Through Matrices and Determinants Describes and solves problems related to systems of linear equations. - Understand and implement the concepts of vectors. - Understand and apply the concepts of numeric verses and numerical series. - Understand and apply the concept of function to a variable such as the limit, continuity, derivative and derivative application.

Methodology for the implementation of educational topics:		
Lectures, exercises.		
Conditions for realization of educational topics:		
Tables and markers, demonstration and task exercises will be used.		
Ways of assessing of the student (in %) :	Evaluation in%	Final grade

Excellence and activity: 10% Periodic tests: 45% Final Test: 45%	90-100%	10
	80-89%	9
	70-79%	8
	60-69%	7
	50-59%	6

Obligations of student:			
Lectures		Exercises	
Lecture 30 hours of contact		30 hour contact exercises	
Activities	Hour/ weeks	Days/Weeks	
Lectures	2	15	30
Laboratory exercises	2	15	30
Contacts with teachers / consultations	1	15	15
Practical work			
Projects, presentations, etc.			
Own study time	2	15	30
Preparation for final exam			30
Time spent in the assessment (tests, final exam, etc.)			15
Notice: 1 ECTS credits= 25 hour commitment, e.g. if the subject has 6 ECTS credits student must have 150 hours during the semester commitment.			Total load: 150
Week	Lectures Topic	Hour	Exercises Topic
1	Notification of students with the syllabus of the subject.	2	Duty from elementary mathematics
2	Basic concepts in mathematics and logical symbols	2	Basic concepts in mathematics and logical symbols
3	Real numbers and their properties	2	Real numbers and their properties
4.	Mathematical induction and binomial formulas.	2	Mathematical induction and binomial formulas.
5	Complex numbers	2	Complex numbers
6	Matrix's	2	Matrix's

7	Matrix operations	2	Matrix operations	2
8	The first test	2	The first test	2
9	Determinant	2	Determinant	2
10	Systems of linear equations	2	Systems of linear equations	2
11	Vectors	2	Vectors	2
12	Numerical sequences and Numerical sums	2	Numerical sequences and Numerical sums	2
13	Function and function limit with a variable	2	Function and function limit with a variable	2
14	The derivative of one variable function	2	The derivative of one variable function	2
15	Testi perfundimtar	2	The final test	2

LITERATURE:

Literatura bazë:

F.Berisha, A.Zejnullahu – Matematika , Prishtine 2003

Literatura shitesë:

E.Hamiti – Matematika 1 , Prishtine 1997.

NOTICE:

Reminder for the student:

The student should be regular in classroom hours, keep the classroom quiet, do not copy tests and exams.