Course Name : Linear Algebra								
Course Code	Course Type	Regular Semester	Lecture (hours/we ek)	Seminar (hours/we ek)	Lab. (hours/we ek)	Credits	ECTS	
CMP 112	А	Spring	3.00	1.00	0.00	3.50	5.00	
Lecturer Sofokli Garo, PhD								
	Assistant							
Course language		Albanian						
Course level		Bachelor						
Description		Students in this course will learn methods of solving systems of linear equations.						
Objectives At the end of this course studentet will be able to learn simple systems of learn equations and apply the knowledge at sinuations related to their profession.								
Co	re Concepts	ncepts Equations of the first degree with two variables and graphic representation; systems of linear equations and Gauss-Jordan method; implementation in electric network situations; matrx equations and their applicaion in solving linear equation systems.						

Course Outline

Week	Topic			
1	Syllabus explanation and course regulation			
2	Introduction to systems of linear equations			
3	Gaussian elimination and Gauss-Jordan elimination			
4	Applications of systems of linear equations			
5	Operations with matrices			
6	Properties of matrix operations			
7	The inverse of a matrix			
8	Midterm test			
9	Elementary matrices			
10	Applications of matrix operations			
11	The determinant of a matrix			
12	Evaluation of a determinant using elementary operations			
13	Properties of dterminant			
14	Introducing to Eigenvalues			
15	Review			
16	Final Exam			

Prerequisites The student must attend the course at a minimum rate of 75%.	
Literature • Larson.K; Valvo.V; Linear elementary algebra.	
References	Petro.P. Alghebra lineare. Tiran 2012

Course Outcome

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Students will be able to mathematically model professional situations that result in systems of linear equations $\frac{1}{2}$

Course Evaluation

In-term Studies	Quantity	Percentage
Midterms	1	30
Quizzes	0	0
Projects	0	0
Term Projects	0	0
Laboratory	0	0
Class Participation	1	20
Total in-term evaluation percent		
Final exam percent		
Total		

ECTS Workload (Based on Student Workload)

Activities	Quantity	Duration (hours)	Total (hours)
Course duration (Including the exam week: 16x Total hours of the course)	16	4	64
Study hours outside the classroom (Preparation, Practice, etc.)	14	1	14
Duties	0	0	0
Midterms	1	2	2
Final Exam	1	5	5
Other	9	4	36
Total Work Load			
Total Work Load / 25 (hours)			
ECTS			