## Course title:

Course Basic Information				
Academic Unit:	Faculty of Civil Engineering			
Course title:	Linear algebra with the analytical geometry			
Level:	Bachelor			
Course Status:	Mandatory			
Year of Study:	Year 1, Semester 1			
Number of Classes per Week:	2+2			
ECTS Credits:	6			
Time /Location:	According to the Timetable			
Teacher:	Prof. Dr. Fevzi Berisha			
Contact Details:	exi.berisha@hotmail.com			
	+383 44 126 989			
Course Description:	The subjects has to do with knowledge of mathematics that are necessary to facilitate gaining knowledge from other courses and apply the knowledge in geodetic engineer.			
Course Goals:	Introduction to the mathematical knowledge needed to apply for the science of geodesy measurements.			
Expected Learning Outcomes:	<ul> <li>apply for the science of geodesy measurements.</li> <li>After completing this course / subject teaching / student will be able to use and understand math concepts to high, so that they know how to help aid apparatus in cases where it is necessary to use mathematical apparatus. Students should be able to: <ul> <li>Implement community-numeric presentation reviews and other insights from algebra as well as mathematical analysis</li> <li>To know the meaning of matrix determinants and determinants proved settings that are applied to solving the system of equations</li> <li>Solve systems of equations in different forms and ways</li> <li>To know the meaning of the vector, acts as linear and nonlinear vector and settings you applied sciences vector operations with technical mechanics</li> </ul> </li> </ul>			
Student Workload (should be in compliance with student's Learning Outcomes)				
Activity	Hours Day/ Week Total			

Statent Workload (should be in compliance with statent s Leanning Outcomes)					
Activity	Hours	Day/ Week	Total		
Lectures	2	15	30		
Theory/ Lab Work/Exercises	2	15	30		
Practical Work					
Study for intermediate test	1	13	13		
Consultations with the teaher	1	15	15		
Field Work					
Test, seminar paper	4	2	8		
Homework	1	15	15		
Self-study (library or home)	2	13	26		

Preparation for final exam		1	15	15		
Assessment time (test, quiz, final						
exam)						
Projects, presentations, etc.				450		
Total				152		
Tooching Mothods:		- Lecture				
Teaching Methods:		- Discussion during lectures				
		- Exercises				
		- Work in group				
Assessment Methods:		In evaluation, the percentage of the attendance of each				
		partial evaluation in the final evaluation must be				
		determined. One of the ways of evaluation would be:				
		First Evaluation: 20%				
			Second Evaluation: 20%			
		Homework or other engagement: 10%				
			Attendance 5%			
		Final Exam 45% Total 100%				
		10tal 100%				
Primary Literature:		1. Fevzi Berisha-Abdullah Zejnullahu: Matematika- për				
,		arkitekturë , 1996, Prishtinë.				
			2. Fevzi Berisha: Përmbledhje detyrash të provimit nga			
Additional Literature:			matematika1,2, Prishtinë 2006. 1. Ejup Hamiti- Matematika I, II. Elektro - Prishtinë			
Additional Literature:		2. Isak Hoxha-Matematika I, I Ndërtimtari, Prishtinë				
		3. Ismet Dehiri-Matematika I,I Fakultet Teknik, Prishtinë				
		4. Përmbledhje të ndryshme të detyrave				
Designed teaching plan						
Week Week 1:	Title of the Lecture					
Week 2:	Real numbers					
	Mathematical induction, binomial formula					
Week 3: Week 4:	Complex numbers Empowerment and indigenization of complex numbers					
Week 5:						
Week 6:	Matrices, Dealing with matrix Determinants inverse matrix					
Week 7:						
Week 8:	Systems linear equations					
Week 9:	Methods for solving the system equations					
Week 10:	Analytic Geometry space					
Week 10:	Ongoing linear vector Production scalar vector					
Week 12:						
Week 12: Week 13:	Production vector of vectors and Production of mixed vector					
Week 13: Week 14:	Equation plains					
	Equation of straights					
Week 15:	Surfaces					

## Academic Policies and Code of Conduct

- Regular attendance of lectures and exercises
- Being quiet during the sessions
- Shutting down mobile phones
- Being on time

Note | If a student has more than 3 class assignements evaluated below 50% he/she loses the right on taking the final exam. Evaluation is done from 0-100 %.