Course title: Mathematics I

Homework

Course Basic Information					
Academic Unit:	Faculty of Civil Engineering				
Course Name:	Mathematics I				
Level:	Bachelor				
Course Status:	Mandatory				
Year of Study:	I (first)				
Number of Hours per Week:	3+2				
ECTS Credits:	9				
Time /Venue:	Faculty of Civil Engineering				
Course Teacher:	Prof.Dr.Abdullah Zejnullahu				
Contact Details:	e-mail: abdullah.zejnullahu@uni-pr.edu www.fn.uni-pr.edu				
Contact Details.	C man: aodunan.zejn	unanu e um-pr.cuu ww	w.m.am pr.caa		
Course Description	The subject concentra	tes on the information fr	rom the field of		
	mathematics with the aim to facilitate and help other subjects from the				
	field engineering.				
Course Objectives:	Introduction with the mathematical knowledge applicable in the sciences				
,	of Civil Engineering.				
Learning Outcomes:	At the end of this course students will be able to use and to understand concepts of higher Mathematics with the aim to use this knowledge as				
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	an aide in other subjects which use mathematical apparatus.				
	 Upon completion of this course students will be able to: apply numerical sets while analyzing and presenting other concepts from algebra as well as mathematical analysis to understand the concept of matrix and determinants, to know the properties of determinants which are used in solving of the system of equations. 				
	 to solve systems of equations in a different manner to understand the concept of vectors, linear and non-linear 				
	 operations with vectors, application of vector properties in the technical sciences. to present different forms of the equation of plane and line in the space as well as their mutual relations. to present in the geometrical and analytic way the forms of 				
	surfaces in the				
	kload (Consistent wit		•		
Activity	Hours	Day/ Week	Total 45		
Lectures Theory/ Lab Work	3 2	15 15	30		
Practical Work		13	30		
Contact Hours with Teacher					
/Consultations during Office	2	10	40		
Hours					
Field Work					
Colloquium, Seminars	9	2	18		
Hanasan and	1 2	l 4-	20		

30

15

Self-study Time		2	15	30		
(in the Library or at Home)						
Final Exam Preparation		5	5	25		
Evaluations (Tests, Quiz, Final		3	2	6		
exam)						
Projects, Presentations, etc.				224		
Total				224		
Teaching Methodology: Lectures and exercises						
Teaching Methodology:		First assessment 20%				
Evaluation Methods:		Second Assessment	20%			
	Activity during exercises 10%					
		Attendance	5%			
		Final Exam	45%			
Literature		A F. P. Sala Al I	Hal Za'a Hala Matan	- (1 9 1 (c.) (9		
Basic Literature:		1. Fevzi Berisha-Abdullah Zejnullahu: Matematika- për arkitekturë , 1996, Prishtinë.				
			2. Fevzi Berisha: Përmbledhje detyrash të provimit nga matematika1,2,			
			Prishtinë 2006.			
Additional Literature:	Additional Literature:		1.Ejup Hamiti – Matematika I, II. Elektro - Prishtinë 2. Isak Hoxha – Matematika I,I Ndërtimtari, Prishtinë			
			Isak Hoxna – Matematika I,I Ndertimtari, Prishtine Ismet Dehiri – Matematika I,II Fakultet Teknik, Prishtinë			
		4. Përmbledhje të ndryshme të detyrave				
		5. Interneti				
Course Plan:						
Week 1:	Real numbers					
Week 2:	Mathematical induction, binomial formula					
Week 3:	Complex numbers					
Week 4:	Power and the root of complex number					
Week 5:	Matrix, operations					
Week 6:	Determinants, inverse matrix					
Week 7:	System of linear equations					
Week 8:	Methods for solving systems of equations					
Week 9:	Analytic geometry in space					
Week 10:	Linear operations with vectors					
Week 11:	Scalar product of vectors					
Week 12:	Vector and mixed product					
Week 13:	Equation of the plane					
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Academic Policies and Rules of Civility:				
Silence during classes				
Turning down cell phones.				
Punctuality				
Respecting student Regulations				

Equation of the line

Surfaces

Week 14: Week 15: