Course SYLLABUS: Engineering Economics

Course basic information	
Academic unit:	Faculty of Civil Engineering
Course name:	Engineering Economics
Level:	Bachelor
Course status:	S
Year of study:	Second (II), III Semester
Number of hours per week:	2+0
ECTS Credits:	3
Time/Venue:	According to schedule
Course teacher:	Prof. Ass. Dr. Mimoza Dugolli
Contact details:	email: mimoza.dugolli@uni-pr.edu Tel: +38345898987
Course Description	Most of the engineering projects will have to meet three major tests in order to be built: a) the project must be technically sound and workable, b) in a free market economy the project must make an economically attractive investment, c) the project must be legal to complete (a big part of this has to do with environmental soundness). This course will ensure to give knowledge and background to studentens regarding the those major issues.
Qëllimet e lëndës:	The students knowledge and background to design technically sound and workable projects. Although On this degree they will not become experts in business and finance, they will know how to assess Whether earnings from the projects will satisfy investors sufficiently to obtain the capital to build the project. This is the class where they will learn how to assess whether the earnings potential of a project will make it the type of project in which people will invest. In addition to teaching them how to assess the economic viability of the engineering projects this class also has the added goal of showing them how investment decision techniques that work in engineering can also be used to help them increase their personal wealth and avoid financial mistakes.
Learning outcomes:	Students, at the end of the course will be abble to know:

	1. Why there is a time value of money Writing down cash flows 2. Four Components of Interest Rates Equivalent Real and Nominal Rates 3. Compounding Interest Future Value of a Present amount 4. Discounting Cash Flows to a Single Point in Time 5. Present Value of Money in the Future 6. Converting Present Values to Annuities

Kontributi në ngarkesën e studentit (gjë që duhet të korrespondojë me rezultatet e të nxënit të studentit)			
Aktiviteti	**Orë**	**Ditë/Javë**	**Gjithsej**
Lectures	2	15	30
Practical works	1	15	15
Contact with the teacher	1	7	7
Field work	-	-	-
Colloquium, seminars	1	2	2
Homeworks	-	-	-
Self-study time (in the library or at home)	1	9	9
Final exam preparation	1	3	3
Final exam reparation	0.5	12	6
Projects, presentations, etc.	1	3	3
Total			**75**

Teaching methodology:	The course is conducted through regular lectures and numerical exercises selected in the classroom and home.
Evaluation methods:	Evaluation during classes: 40% Seminar 50% Attendance: 10% Total 100%
Literatura	
	1. Donald G Newnan: "Engineering Economic Analyses" 2. Leland T Blank: "Engineering Economy"
Literatura shtesë:	3. Raftery, John (1991): "Principles of Building Economics", Blackwell, Oxford.

Course plan:	
Week	**Ligjërata që do të zhvillohet**
Week 1:	The definition of Economics and its development
Week 2:	Main principles of economics theory
Week 3:	The economy of Construction Industry
Week 4:	The demand and the offer in Construction
Week 5:	The concept of the value, cost and the price

Week 6:	Construction cost analyses
Week 7:	Construction cost control
Week 8:	Investment projects
Week 9:	Cash flow
Week 10:	Investment evaluation methologies
Week 11:	Projects finance management
Week 12:	Small and medium Enterprises
Week 13:	Business menagement
Week 14:	Macro-ekonomy
Week 15:	The Seminar presentation

Academic policies and rules of civility:
Regular attendance at lectures and exercises; Presentation of the seminars;