

Course information in english

General course information:

Course title:	Highway Engineering II	Course code:	CE06-T01
Credits:	4	Work load (hours):	100
Course level:	Undergraduate <input checked="" type="checkbox"/>	Graduate <input type="checkbox"/>	
Course type:	Mandatory <input checked="" type="checkbox"/>	Selective <input type="checkbox"/>	
Course category:	Basic <input checked="" type="checkbox"/>	Orientation <input type="checkbox"/>	
Semester:	6th	Hours per week:	4
Course objectives (capabilities pursued and learning results):			
Road Construction – Road Infrastructure Earthworks Study. Road Construction Procedures. Materials quality control Principles of Infrastructure Design. Road Construction Economics.			
Prerequisites:			
<ul style="list-style-type: none">• Highway Engineering I• Soil Mechanics• Hydrology• Building Materials• Hydraulics I			

Instructor's data:

Name:	Nikolaos Eliou
Level:	Professor
Office:	
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Other tutors:	Kaliabetsos G., Scientific Assistant

Specific course information:

Week No.	Course contents	Hours	
		Course attendance	Preparation
1-2	Earthworks Study	4	1
3-4	The Nature of Soil - Soil Mechanics	4	2
5-6	Earthworks, Soils, Embankments, Cuttings, Slope Protection	4	2
7-8	Compaction	4	2
9-10	Earthworks Management	4	2
11-12	Principles of Retaining Walls Design.	4	2
13-14	Road Drainage	4	1

Additional hours for:			
Class project	Examinations	Preparation for examinations	Educational visit
-	4	16	-

Suggested literature:
<ul style="list-style-type: none"> • "Earthworks. Road Infrastructure", Prof. A. Mouratidis A.U.Th. • "Soil Mechanics, Theory, Methods & Applications" Prof. S.S. Tsotsos A.U.Th.

Teaching method (<i>select and describe if necessary - weight</i>):		
Teaching	<input checked="" type="checkbox"/>	50 %
Seminars	<input type="checkbox"/>%
Demonstrations	<input type="checkbox"/>%
Laboratory	<input type="checkbox"/>%
Exercises	<input checked="" type="checkbox"/>	50%
Visits at facilities	<input type="checkbox"/>%
Other (<i>describe</i>):	<input type="checkbox"/>%
Total		100%

Evaluation method (<i>select</i>)- weight :				
	<u>written</u>	<u>%</u>	<u>Oral</u>	<u>%</u>
Homework	<input type="checkbox"/>		<input type="checkbox"/>	
Class project	<input checked="" type="checkbox"/>	20	<input type="checkbox"/>	
Interim examination	<input type="checkbox"/>		<input type="checkbox"/>	
Final examinations	<input checked="" type="checkbox"/>	80	<input type="checkbox"/>	
Alternative: Advanced Project	<input checked="" type="checkbox"/>	30	<input type="checkbox"/>	