# (B) Course information in english

### General course information:

					1	
Course title:	Pavement Design		Course code:		CE07_T05	
	& Construction					
Credits:	6		Work load		150	
			(hours):			
Course level:	Undergraduate		e <b>*</b>	Gradu	ate 🛛	
Course type:	type: Mandatory			Selective *		
Course category:	Basic			Orientation *		
Semester:	9		Hours per week:		4 hours	
Course objectives (capabilities pursued and learning results):						
Methodologies and standards for the design of flexible and rigid pavements as						
well as the identification of damage, the measurement of surface and structural						
characteristics of pavement and the appropriate repair and maintenance						
interventions.						
Prerequisites:						
Highway Engineering						

- Fighway Engineering Construction Materials
- Soil Mechanics

## Instructor's data:

Name:	Pantelis Kopelias
Level:	Assistant Proffesor
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# Specific course information:

Week No.	Course contents	Hours		
Week NO.		Course attendance	Preparation	
1	Review of Soil properties and basic characteristics for highway and pavement engineering Mechanical properties of asphalt mixtures	4	3	

2	Review of Aggregates properties for asphalt and pavement layers	4	2
3	Asphalt mixtures	4	2
4	Types of hot, cold asphalt mixtures, mix design	4	2
5	Mechanical properties of pavements	4	3
6-7	Flexible pavement design methods	8	6
8	Rigid Pavement design method	4	3
9-10	Surface and structural characteristics	8	5
11	Damages and preservation	4	3
12-13	Pavement Management System, General principles of maintenance and restoration	8	5
14	Pavement material recycling	4	2

Additional hours for:				
Class project	Examinations	Preparation for examinations	Educational visit	
25	3	30		

Suggested literature: • «Οδοποιία», Οδοστρώματα - Υλικά - Έλεγχος ποιότητας , Συγγραφέας: Αθανάσιος Φ. Νικολαΐδης

<b>Teaching method</b> (select and describe if necessary - <b>weight</b> ):				
Teaching		80%		
	*			

Seminars		
		%
Demonstrations		
		%
Laboratory		
		%
Exercises		
	*	20%
Visits at facilities		
	*	%
Other (describe):		
		%
Total		100%

Evaluation method (select)- weight:				
	<u>written</u>	%	<u>Oral</u>	<u>%</u>
Homework				
Class project	*	20		
Interim examination				
Final examinations	*	80		
Other (describe):				