

Course information in english

General course information:

Course title:	Road Operations and Traffic Management	Course code:	CE09-T04
Credits:	5	Work load (hours):	150
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 type="checkbox"/>	Orientation	<input checked="" type="checkbox"/>
Semester:	8	Hours per week:	4 hours
Course objectives (capabilities pursued and learning results):			
<ul style="list-style-type: none">• Asset Management• Analysis methods for road construction and infrastructure• Traffic Management Techniques• Incident Management• ITS equipment and Active Traffic Management• Traffic Calming schemes, priority to pedestrians, bicycle etc			
Prerequisites:			
<ul style="list-style-type: none">• Pavement engineering and construction• Highway design and Engineering• Economics			

Instructor's data:

Name:	Pantelis Kopelias
Level:	Lecturer
Office:	
Tel. - email:	+3024210 74165, kopelias@uth.gr
Other tutors:	

Specific course information:

Week No.	Course contents	Hours	
		Course attendance	Preparation
1	Asset Management. Basic Concept and goals	4	2
2	Monitoring of road infrastructure, ITS systems, Traffic Management Centres, Information and guidance	4	2
3	Review of traffic flow theory and queue theory	4	2
4	Congestion Management, Active Traffic Management techniques	4	2
5	Incident Management	4	2
6-7	Pavements management system. Pavement characteristics. Maintenance techniques. Inspections and Maintenance.	8	4
8	Economic Methods of Asset Management	4	2
9-10	Traffic Calming. Infrastructures for Pedestrians and Bicycles. Capacity analysis and design.	8	4
11	Demand Management. Congestion Pricing, Charge Zones	4	2
12	Parking Management	4	2
13-14	Road Safety Audit. Driver distraction and infrastructure.	8	2

Additional hours for:			
Class project	Examinations	Preparation for examinations	Educational visit
25	3	40	

Suggested literature:
<ul style="list-style-type: none"> «Management of roads and road construction», A.K. Mouratides, University Studio Press, 2008 Tutor's notes

Teaching method (select and describe if necessary - weight):		
Teaching	*	...80....%
Seminars	<input type="checkbox"/>%
Demonstrations	<input type="checkbox"/>%
Laboratory	<input type="checkbox"/>%
Exercises	*	...20....%
Visits at facilities	*%
Other (describe):	<input type="checkbox"/>%
Total		100%

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