## Course information in english

#### General course information:

Scheral course miloi						
Course title:		ad Operations	Course code:		ΣΥ0910	
		d Traffic				
	Management					
Credits:	5		Work load		142	
			(hours):			
Course level:	Undergraduate		*	Graduate		
Course type:	Course type: Mandatory		*	Selectiv	Selective $\square$	
Course category:	Course category: Basi			Orienta	Orientation	
Semester:	mester: 8 Hours per week: 4 hours		4 hours			
Course objectives (	capa	bilities pursued	l and learnii	ng result	s):	
Asset Managem	ent					
Traffic Manager	nent	Techniques				
<ul> <li>Incident Manag</li> </ul>	eme	nt				
ITS equipment and Active Traffic Management						
Congestion Management						
Demand management						
ADAS Systems						
Parking Management						
Prerequisites:						
Pavement engin	eeri	ng and construct	ion			
Highway design and Engineering						
• Economics						

### Instructor's data:

Name:	Pantelis Kopelias
Level:	Assistant Professor
Office:	
Tel email:	+3024210 74165, kopelias@uth.gr
Other tutors:	·

# **Specific course information:**

Week No.		Hours		
	Course contents	Course attendance	Preparation	
1	Road Operations and Traffic Management. Basic Concept and goals	4		
2	Asset Management- Traffic Operations in urban and interurban roads	4	2	
3	Institutional framework in Greece. Responsibilities. Concessions, Municipalities and Regions	4	2	
4	Review of traffic flow theory and queue theory	4	4	
5	ITS, road and traffic monitoring. Information systems	4	2	
6	Traffic Management Centers	4		
7	Congestion Management, Active Traffic Management techniques	4	2	
8	Incident Management	4	4	
9	Special Events Management	4	2	
10	Demand management – Congestion Pricing. PT vs cars	4	2	
11	Parking Management	4	2	
12	Environmental Management and Road Operations	4		
13	Inspections and Maintenance. Procedure, Types, indexes. Intervention planning	4	2	
14	Economic Methods of Road and Traffic Management	4	4	

Additional hours for:				
Class project Examinations		Preparation for examinations	<b>Educational visit</b>	
25	3	30	(alternative to lecture #13)	

#### Suggested literature:

- «Management of roads and road construction», A.K. Mouratides, University Studio Press, 2008
- Traffic Flow Technics, Fratzeskakis, Golias, Pitsiava, Papasotiriou 2009
- Highway Capacity Manual (2010), Transportation Research Board, USA
- NHTSA (2008) Freeway Operations Handbook
- NHTSA (2013) Active Traffic Management for Arterials
- Tutor's notes

Teaching method (select an	nd describe if necessary <b>- wei</b>	ght):
Teaching		70%
	*	
Seminars		
		%
Demonstrations		
		%
Laboratory		
		%
Exercises		
	*	30%
Visits at facilities		
	*	%
Other (describe):		
		%
Total		100%

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