Course information in english

General course information:

Course title:	Lar	nd reclamation	Course code: CE09-H		CE09-H08	
	pro	jects				
Credits:	6		Work load		120	
		1	(hours):			
Course level:	ourse level: Undergraduate			Graduate 🛛		
Course type:		Mandatory		Select	ive 🗵	
Course category:		Basic [Orient	ation 🗵	
Semester:	G		Hours per		4	
			week:			
Course objectives	s (ca	pabilities purs	ued and lea	rning r	esults):	
Design of land recl	ama	tion projects				
(Water demand, Distribution systems, Sizing of irrigation networks, Canal and						
pipe structures)						
Prerequisites:						
Hydraulics						
Hydrology						
Groundwater hydraulics						
 Groundwate 	er ny	draulics				

Instructor's data:

Name:	Nikitas Mylopoulos
Level:	Professor
Office:	114
Tel. – email:	24210 74162 nikitas@uth.gr
Other tutors:	

Specific course information:

Week No.		Hours		
	Course contents	Course attendance	Preparation	
1	Introduction to land reclamation projects	4	2	
2	Soil moisture-Infiltration	4	2	
3	Unsaturated-Saturated flow	4	4	
4	Evapotranspiration (Potential & Actual)	4	4	
5	Quality of water for irrigation	4	4	

6	Crop water demand	4	4
7	Distribution methods	4	4
8	Surface irrigation networks	4	4
9	Pipe irrigation networks	4	4
10	Sprayers, microirrigation	4	4
11	Optimazation of networks	4	4
12	Structures in irrigation projects in stations (Siphons, culverts, pumps, etc)	4	4
13	Case studies	4	4
14	Case studies	4	4

Additional hours for:				
Class project	Examinations	Preparation for examinations	Educational visit	
5	3	4		

Suggested literature:

- G. P. Tsakiris, 1986, Lectures on Land Reclamation Projects, NTUA, Athens (In Greek)
- Ch. D. Tzimopoulos, 1982, Agricultural Hydraulics, AUTH, Thessaloniki, (In Greek)
- G. A. Terzidis and Z. G. Papazaphiriou, 1997, Agricultural Hydraulics, AUTH, Thessaloniki, (In Greek)
- A. T. Aisenbrey et. Al, 1978, Design of small canal structures, USBR, Denver, USA

Teaching method (select and describe if necessary - weight):				
Teaching	⊠ Lectures			
	covering the theoretical	50%		
	part of the course			
Seminars				
		%		
Demonstrations				
		%		
Laboratory				
		%		
Exercises	Solving of			
	exercises – practical	50%		
	applications			

Visits at facilities	 Municipal water authorities – Reservoirs Work site of pipe placing 	%
 Other (describe): 1. Students solve a λand reclamation project. 		beyond teaching hours
Total		100%

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