Course basic information				
Academic unit:	Faculty of Civil Engineering			
Course title:	On-site decentralized wastewater treatment systems			
Level:	BSc			
Course status:	Mandatory			
Year of study:	3 rd Year/6th Semester			
Number of classes per week:	2+2			
ECTS Credits:	6 ECTS			
Time/Location:	According to timetable			
Teacher:	Prof.Asoc.Dr. Figene Ahmedi			
Contact details:	Email: figene.ahmedi@uni-pr.edu			
	Tel: +381 38 55	54 899/103		
Course description	Given the fact many resider management future managelaborated ir wastewater, flowrates; V Alternative w treatment; Effluent dispo and septage decentralized v	that complete sevents, on-ste decemplete sevents, on-ste decemplete de complete decemplete de complete decemplete de complete decemplete de complete decemplete decemplete decemplete de complete decemplete de complete decemplete de complete de complete de complete de complete decemplete de complete de co	verage is unlikely for itralized wastewater importance to the environment. Topics re: Constituents in rces and avarage eatment processes; on systems; Biologic recirculating filters; ed systems; Biosolids Management of	
Course goals:	The cours aims to present the importance of on-site decentralized systems for communities where complete sewerage is unlikely; To demostrate types of on-site decentralized systems; To provide concepts of system management.			
Expected learning outcomes:	 Students who attend the course will be able to : Understand and reflect the need for using on-site wastewater treatment systems Recognize the differences of on-site wastewater treatment systems and Select and present the management steps of on-site systems 			
Student workload (should be in cor	npliance with s	student's Learning	Outcomes)	
Activity	Hours	Day/Week	Total	
Lectures	2	15	30	
Theory/Lab work/Exercises	2	15	30	

Course title: On-site decentralized wastewater treatment systems

Practical work					
Midterm test preparation		2	15	30	
Consultation with the teacher		1	6	6	
Field work					
Test, seminar paper		2	2	4	
Homework		2	12	24	
Self-study time (library or home)				8	
Preparation for final exam				10	
Assessment time (test, quiz, final				8	
exam)					
Projects, presentations, etc.					
Total				150	
Teaching methods:		Through lectu students (exer	res, classroom wor cises) and individual	k in a group of 2-3 homework.	
Assessment methods:		Prerequisite: Urban water management			
		Evaluation is done from 0-100 %			
		First midterm:	35 %		
		Second midterm: 35 %			
		Home Works: 30 % Regular attandance – decisive in borderline cases			
		Final exam.		ordernine cases	
Primary literature:		1. Ahmedi, F. Lecture notes			
Additional literature:		1. Crites, R., Tchobanoglous, G. Small and			
		Decentralized Wastewater Management Systems,			
		McGraw-Hill, 1998			
		2. US EPA. Onsite Wastewater Treatment Systems			
		Manual, 2002			
		3. Metcalf & Eddy, Inc. Wastewater Engineering:			
		Treatment and Reuse. 4th ed, McGraw Hill, Inc.,			
		New York,	2003		
Design teaching plan:					
Week	Title of	the lecture			
Week 1:	Constituents in wastewater				
Week 2:	Impact of wastewater effluent discharge standards				
Week 3:	Wastewater sources, and constituent concentration				
Week 4:	Wastewa	ater pretreatme	nt		
Week 5:	Alternative wastewater collection systems				
Week 6:	Alternative wastewater colection systems (cont.)				
Week 7:	Biologic treatment				
Week 8:	Biologic treatment (cont.)				
Week 9:	Intermittent and recirculating filters				

Week 10:	Intermittent and recirculating filters
Week 11:	Effluent disposal for decentralized systems
Week 12:	Effluent disposal for decentralized systems
Week 13:	Study visit to decentralized system
Week 14:	Biosolids and septage management
Week 15:	Management of decentralized wastewater systems

Academic policies and code of conduct

Regular attendance of lectures and exercises. Silence in teaching. Entrance in class within time. Tools used during class must be cleaned and stored away at the end of class.

Mobile/smart phones, and other electronic devices must be turned off (or on vibrate) and hidden from view during class time.

Laptop and tablet computers are allowed for quiet use only (if required for use in class); other activities such as checking personal e-mail or browsing the Internet are prohibited.