

SUSTAINABLE ENVIRONMENTAL ENGINEERING

Module Layout XMΠ513: Wastewater Engineering

Faculty	Code	e Faculty of Pure and Applied Sciences			
Programme of Study	ХМП	Sustainable Environmental Engineering			
Module	ХМП513	Wastewater Engineering			
Level of Study	Undergraduate Graduate				
			Maste	er	Doctoral
		X			
Language of Instruction	Greek	Greek			
Mode of Delivery	Distance	Distance			
Module Type	Required		Electives		
		Χ			
Number of Group Consulting	7	otal	Physical P	resence	Online
Meetings		13	0		13
Number of Assignments		1		*********************************	
Final Grade Calculation	Assig	gnments	Weekly A	ctivities	Final Exam
	3	30 % 10 %		6	60 %
Number of European Credit Transfer System (ECTS)	10		····	······································	

Module Description

The course focuses on the production of liquid waste, its quantitative and qualitative characteristics and its management - treatment methods. Particular emphasis is placed on the pollutant parameters, the understanding of mass balances, the production and categorization of industrial waste and advanced treatment methods such as chemical reactions, membrane technology, etc.

The objective of the course is to delve into issues related to management liquid waste. The student is expected to know after the successful completion of the course: (i) The production mechanism and the main characteristics of liquid waste (municipal and industrial), (ii) the basic methods of municipal liquid waste management, (iii) the basic management methods of municipal solid waste management, (iv) methods of industrial waste management, etc. The aim of the course is the study of the basic principles of wastewater treatment systems and the processes, the design and operation parameters of the units utilized in wastewater treatment plant.

Pre-requisite Modules Not applicable

Co-req	juisite	Modul	es
Not appl	icable		

Grading Scheme	Percentage on	Workload		
Assessment Method	Final Grade	Hours	ECTS	
Weekly Study 13 weeks * ~11 study hours		140-160	4.5	
Weekly Interactive Activities 13 weeks * ~1 hour of work	10%	~13	0.5	
Assignment	30 %	80 - 100	5.0	

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Final/Repeat Examination	60 %	3	
Total	100%	250-300	10

Grading Rules and Assessment methods

- Students are evaluated with 10, if they earn 100% of the possible grade.
- Students are evaluated with 9, if they earn 90% of the possible grade, I.e. 90%*10=9, etc.
- Passing rate

 - 50% of the Assignment50% of the Interactive Activities
 - Students are allowed to participate in the final exam of a Module if they have overall earned the minimum grade (≥ 50 %) in both their Assignment and Interactive Activities
 - o 50% of the Final exam

If a student earns a grade with decimal points, then it is rounded to the nearest half unit.

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