WATER ENGINNERING

2024/25. 1. SEMESTER

ALAPADATOK							
COURSE NAME	Vízépítés, vízga	zdálkodás	Water Engineering				
COURSE CODE(S)	YCRVÍÉGBNF						
DEPARTMENT	Óbuda University Ybl Miklós Faculty of Civil Engineer						
PROGRAMME, TRAINING		BSc	full time				
COURSE INSTRUCTOR (Instructor managing the course)	Dr. Eszter Horvath- Kalman PhD, Associate Professor	kalman.eszter@ybl.un i-obuda.hu	consulting hours:				
	Dr. Eszter Horvath-Kalman, Associate Professor	kalman.eszter@ybl.un i-obuda.hu					
INSTRUCTORS, LECTURERS							
PRE-REQUIREMENT	1 s Hydraulics						
HOURS OF LECTURES (WEEKLY)	2 hours						
HOURS OF CLASSROOM PRACTICE/ LAB EXERCISE (WEEKLY)	1 hours						
FIELD AND TRAINING (WEEKLY)	0 hours						
ASSIGNMENT	Midterm assignment and exam						
CREDITS	6 credits (ECTS)						
AIM OF THE COURSE, BRIEF DESCRIPTION	The aim of the course is to provide an overview of water engineering and water management.						
RECOMMENDED LITERATURE	 Dr. Hamvas Ferenc: Vízépítés (Műegyetemi Kiadó,1994); Vízépítés, vízgazdálkodás, BME, HEFOP 2004.; Vízkárelhárítás, BME, HEFOP Davis Mackenzie: Water and Wastewater Engineering: Design Principles and Practice, Second Edition; Willi H. Hager, Anton J. Schleiss, Robert M. Boes, Michael Pfister: Hydraulic Engineering of Dams Michael Church: The Regulation of Peace River: A Case Study for River Management 						
REQUIRED TECHNICAL APPLIANCES/ SOFTWARE	The use of mobile phones is prohibited during the examinations. In the case of online education: Contact: Neptun, E-learning and E-mail. Education materials: According to E-learning Lessons: E-learning, Team						

ÓU YBL MIKLÓS FACULTY OF ARCHITECTURE AND CIVIL ENGINEERING - COURSE SCHEDULE

SCHEDULE OF THE SEMESTER

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WEEK	LECTURE	LECTURER	FORM OF PRACTICE	PROGRAM OF PRACTICE
1.	The purpose and tasks of water management	Eszter Horvath- Kalman PhD	personal presence	Description of the semester assignments and requirements
2.	Plain water managment	Eszter Horvath- Kalman PhD	personal presence	Description of the semester assignments and requirements.
3.	Hillside water managment	Eszter Horvath- Kalman PhD	personal presence	Review of the knowledge of hydraulics and hydrology required to complete the semester design work.
4.	River regulatin, Downhill water regulation, Hardcoastal protection suturctures	Eszter Horvath- Kalman PhD	personal presence	Review of the knowledge of hydraulics and hydrology required to complete the semester design work.
5.	Drinking water management and drinking water well drilling	Eszter Horvath- Kalman PhD	personal presence	Consultation
6.	Hydropower	Eszter Horvath- Kalman PhD	personal presence	Consultation
7.	Dam	Eszter Horvath- Kalman PhD	personal presence	Consultation
8.	Flood protection	Eszter Horvath- Kalman PhD	personal presence	Discussing the details of the design work
9.	Water transport, ports, harbours	Eszter Horvath- Kalman PhD	personal presence	Discussing the details of the design work
10.	Thermal water management. Spa and beach baths.	Eszter Horvath- Kalman PhD	personal presence	Consultation
11.	Final test	Eszter Horvath- Kalman PhD	personal presence	Final test

REQUIREMENTS FOR THE COMPLETION OF THE SEMESTER MID-SEMESTER TASKS AND TESTS					
PARTICIPATION AT LESSONS	The practice lessons can be missed up to three times (see § 46 ETVSZ)	-			
IN CASE OF ABSENCE FROM LESSONS AND EXAMINATIONS	Absence is considered to be justified with a medical certificate presented.	-			
Short description of the TASKS	An optional hydraulic engineering design exercise.	50 points			
Short description of the TASKS	Description of an optional hydraulic engineering problem with a proposed solution.	50 points			
Pre-exam / exam		2x50 ponits			
TOTAL		200 points			

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SEMESTER CLOSING REQUIREMENTS									
CONDITIONS FOR OBTAINING A SIGNATURE	To obtain a signature, you must complete two termly assignments and pass at least one of the two ZHs, and at least attend one of the two ZHs.								
SEMESTER GRADE	0-119 Point	120-134	135-149		150-169	170-200			
SEMESTER GRADE	1 - FAIL	2 - PASS	3 - SATISFACTORY		4 - GOOD	5 - EXCELLENT			
CONDITIONS FOR OBTAINING AN OFFERED GRADE	24 out of the 40 points has to be reached in the test and at least 80 points together with the semester tasks.								
	150-169 Point			170-200 Point					
	4 - GOOD			5 - EXCELLENT					
CONDITIONS FOR ADMISSION TO THE EXAM	Only students who have already obtained a signature can take the exam. During the exam period, the student has to register for the exam in the Neptun. The test is a 60-minute written test with a total value of 50 points.								
EXAM GRADE	0-28 Point	29-32	33-37		38-44	45-50			
	1 - FAIL	2 - PASS	3 - SATISF	ACTORY	4 - GOOD	5 - EXCELLENT			