

WATER SUPPLY

2022/23. 2. SEMESTER

ALAPADATOK			
COURSE NAME	Közművek III. Vízellátás		Water Supply
COURSE CODE(S)	YCWKÖZ3BNF		
DEPARTMENT	Óbuda University Ybl Miklós Faculty of Architecture, Institute of Civil Engineering		
PROGRAMME, TRAINING	CE BSc		full time
COURSE INSTRUCTOR (Instructor managing the course)	Dr. Gábor Dombay PhD	dombay.gabor@ybl.uni-obuda.hu	consulting hours: as per on webpage
INSTRUCTORS, LECTURERS			
PRE-REQUIREMENT	Hydraulics		
HOURS OF LECTURES (WEEKLY)	1 hours		
HOURS OF CLASSROOM PRACTICE/ LAB EXERCISE (WEEKLY)	3 hours		
FIELD AND TRAINING (WEEKLY)	0 hours		
ASSIGNMENT	Midterm assignment and exam		
CREDITS	5 credits (ECTS)		
AIM OF THE COURSE, BRIEF DESCRIPTION	Design and operation of drinking water distribution systems. Modeling network hydraulics.		
RECOMMENDED LITERATURE	EPANET User Manual		
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, Zoom		

SCHEDULE OF THE SEMESTER				
WEEK	LECTURE	LECTURER	FORM OF PRACTICE	PROGRAM OF PRACTICE
1	Distribution systems. Nomenclature	GD	classroom	Overview of the design assignment of a drinking water distribution system
2	Water demands.	GD	classroom	Water demands calculation
3	Storage	GD	classroom	Pumping schedule
4	Hydraulic analysis of networks	GD	classroom	Storage calculation
5	Hydraulic design and verification of networks	GD	classroom	Consultation
6	Hydraulic modeling	GD	classroom	Consultation
7	Pumping	GD	classroom	Modeling application
8	Evaluation of hydraulic calculations	GD	classroom	Topological model setup
9	Pipes and fittings	GD	classroom	Determination of nodal demands
10	Appliances, valves	GD	classroom	Network simulations
11	Storage facilities	GD	classroom	Consultation
12	Water quality changes in the network	GD	classroom	Hydraulic model evaluation
14	Modeling water quality changes	GD	classroom	Consultation
15	Overview of the semester	GD	classroom	Submission of the assignment

REQUIREMENTS FOR THE COMPLETION OF THE SEMESTER		
MID-SEMESTER TASKS AND TESTS		
Requirement	Description	Value (point, %, grade)
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		50 points
Short description of the TASKS		
Pre-exam / exam		
TOTAL		115 points

SEMESTER CLOSING REQUIREMENTS					
CONDITIONS FOR OBTAINING A SIGNATURE	?				
SEMESTER GRADE	0-59 Point	60-69	70-79	80-89	90-115
	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.				
	80-89 Point			90-115 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 40 points.				
EXAM GRADE	0-59 Point	60-69	70-79	80-89	90-115
	1 - FAIL	2 - PASS	3 - SATISFACTORY	4 - GOOD	5 - EXCELLENT