COURSE SYLLABUS AND COURSE REQUIREMENTS ACADEMIC YEAR 2023-2024 SEMESTER FALL

Course title	PUBLIC UTILITIES
Course Code	MSB418ANEP
Hours/Week: le/pr/lab	2/0/0
Credits	2
Degree Programme	Civil Engineering BSc
Study Mode	Full-time
Requirement	Exam
Teaching Period	Semester 5
Prerequisites	Hydrology and Eng.Fluid.Mecha3.
Department	Civil Engineering
Course Director	Dr. Judit Pál-Schreiner
Teaching Staff	Dr. Judit Pál-Schreiner

COURSE DESCRIPTION

This course exposes students to an expansive suite of topics and methods within the field of Public Utilities. Engineering networks as a part of technical infrastructure in towns and cities. Public utilities categories, forms of placing, spatial arrangement, forms of construction. Technical requirements for design, structure and operation of public utilities.

SYLLABUS

1. GOALS AND OBJECTIVES

Engineering networks as a part of technical infrastructure in towns and cities. Public utilities categories, forms of placing, spatial arrangement, forms of construction. Technical requirements for design, structure and operation of public utilities.

2. COURSE CONTENT

	TOPICS	
LECTURE	 Definition of public utilities, public works Grouping and main features of public utilities Water treatment Urban drainage systems Waste-water Treatment Public Utilities Tunnel 	

DETAILED SYLLABUS AND COURSE SCHEDULE

LECTU	IRE			
week	Торіс	Compulsory reading; page number	Required tasks (assignments, tests, etc.)	Completion date, due date
1.	Definition of public utilities, public works	4-6 + lecture notes ppt.		
2.	Grouping and main features of public utilities	4-6 + lecture notes ppt.		
3.	Water treatment	16-13 + lecture notes ppt.		
4.	Site visit 1_ Mohács, Water Treatment Plan	29-09-2023 (Friday) 8:00 a.m 13:00 p.m.	Report 1	09-10-2023
5.	Urban drainage systems	30-49		
6.	Waste-water treatment	lecture notes ppt.		
7.	Site visit 2_Pellérd, Waste-water Treatment Plan	20-10-2023 (Friday) 8:00 a.m 12:00 p.m.	Report 2	30-10-2023
8.	Holiday- no classes			
9.	Public Utilities Tunnel	lecture notes ppt.		
10.	Site visit 3_ Public Utilities Tunnel Pécs	10.11.2023. (Friday) 8:00 a.m 12:00 p.m.	Report 3	20-11-2023
11.	Traditional building methods	lecture notes ppt.		
12.	Exam test			
13.	Retake exam test (if required)			

LECTURE

3. ASSESSMENT AND EVALUATION

ATTENDANCE

In accordance with the Code of Studies and Examinations of the University of Pécs, Article 45 (2) and Annex 9. (Article 3) a student may be refused a grade or qualification in the given full-time course if the number of class absences exceeds 30% of the contact hours stipulated in the course description.

Method for monitoring attendance

Attendance sheet. Attending is required all classes, and will impact the grade (max. 10%). Unexcused absences will adversely affect the grade, and in case of absence from more than 30% of the total number of lesson will be grounds for failing the class. To be in class at the beginning time and stay until the scheduled end of the lesson is required, tardiness of more than 20 minutes will be counted as an absence. In the case of an illness or family emergency, the student must present a valid excuse, such as a doctor's note.

<u>ASSESSMENT</u>

Course-unit with final examination

Mid-term assessments, performance evaluation and their weighting as a pre-requisite for taking the final exam

Туре	Assessment	Weighting as a proportion of the pre-requisite for taking the exam
Examtest	45% (min 18%)	45%
Site visit report 1	15% (min 6%)	15%

Site visit report 2	15% (min 6%))	15%
Site visit report 3	15% (min 6%)	15%
Class attendance	10% (min 4%)	10%

Requirements for the end-of-semester signature

Each individual assessment must be at least 40% on its own.

Re-takes for the end-of-semester signature (PTE TVSz 50§(2))

The specific regulations for grade betterment and re-take must be read and applied according to the general Code of Studies and Examinations

Examtest can be repeated/improved each at least once every semester. Participation in site visits is mandatory, with a maximum allowance of one absence.

Type of examination: written

The exam is successful if the result is minimum 40%

Calculation of the grade (TVSz 47§ (3))

Calculation of the final grade based on aggregate performance in percentage.

Course grade	Performance in %
excellent (5)	85 % -100%
good (4)	70 % - 84 %
satisfactory (3)	55 % - 69 %
pass (2)	40 % - 54 %
fail (1)	0% - 39 %

4. SPECIFIED LITERATURE

COMPULSORY READING AND AVAILABILITY

[1.] Knolmár-Fülöp-Darabos: Public works 2014- online booklet [2.] Lecture notes ppt.

RECOMMENDED LITERATURE AND AVAILABILITY

[3.] Hamada, M. et al (2014): Critical Urban Infrastructure Handbook, CRC Press ISBN-13:978-1466592049 ISBN-10:1466592044

[4.] Every Drop Counts-Environmentally Sound Technologies for Urban and Domestic Water Use Efficiency URL://www.unep.or.jp/