COURSE SYLLABUS AND COURSE REQUIREMENTS ACADEMIC YEAR 2024-2025 SEMESTER SPRING

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 schedule
Requirements	Exam
Teaching Period	Semester 6
Prerequisites	none
Department(s)	Civil Engineering
Course Director	Dr. Pál-Schreiner Judit
Teaching Staff	Dr. Pál-Schreiner Judit

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

- 1. Definition of public utilities, public works
- 2. Grouping and main features of public utilities
- 3. Water treatment
- 4. Urban wastewater systems, Public Utilities Tunnel
- 5. Waste-water Treatment

DETAILED SYLLABUS AND COURSE SCHEDULE

LECTURE

LLCIO	LLCTORL				
week	Topic	Compulsory reading; page number	Required tasks (assignments, tests, etc.)	Completion date, due date	
1.	Course description, Orientation				
2.	Definition of Public Utilities - Def.				
	Infrastructure; Def. Public Utilities;				
	main features of PU; grouping of PU				
	(based on sector type, based on their				
	location)				

3.	Water supply system, Catchment	presentations	
4.	Water Treatment, Water Demand	presentations	
5.	Water Distribution System	presentations	
6.	Pumps, Reservoirs	presentations	
7.	Sewer systems	presentations	
8.	Structures of the Sewer System	presentations	
9.	Manholes, Pumping station	presentations	
10.	Stormwater sewer systems	presentations	
11.	Wastewater Treatment	presentations	
12.	Easter Holiday-no classes		
13.	Exam test		29-04-2025
14.	Retake exam test (if required)		06-05-2025

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.

ASSESSMENT

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
Exam test	50%	50%
Presentation	40%	40%
Class attendance	10%	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))

Exam test can be repeated/improved each at least once every semester.

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)	below 40 %

The lower limit given at each grade belongs to that grade.

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/