

General Information:

Name of Course:	PUBLIC UTILITIES
Course Code:	PMRKGNB095CA
Semester:	4 nd
Number of Credits:	4
Allotment of Hours per Week:	2 Lectures, 2 Practices
Evaluation:	Exam (with grade)
Prerequisites:	None

Instructor: **Dr. Judit PÁL-SCHREINER**
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Introduction, General Course Description:

This course exposes students to an expansive suite of topics and methods within the field of public utilities (public works).

Learning Objectives:

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

Methodology:

- **Lectures:** Lectures will give an introduction to the basic knowledge of public utilities.
- **Practical class:** Students will be able to practice the basic calculations and design through their own plan (project).
- **Exam:** Accumulated knowledge is tested in an exam.

Schedule:

Week	Topic of Lecture
Week 1	Course description; Orientation
Week 2	Preparing Presentations
Week 3	<i>Pollack Expo – no lecture</i>
Week 4	Definition of Public Utilities, Water Supply System, Catchment [presentations]
Week 5	Water Treatment, Water Demand [presentations]
Week 6	Water Distribution System I. (pipelines, fittings) [presentations]
Week 7	Water Distribution System II. (pumps, storage reservoirs, water tower) [presentations]
Week 8	Classification of Sewer Systems [presentations]
Week 9	Structures of the Sewer System [presentations]
Week 10	Pumping Station [presentations]
Week 11	<i>Spring Break – no lecture</i>
Week 12	Waste Water Treatment [presentations]
Week 13	Site visit at Public Utilities Tunnels-/Water Management-/ Wastewater Treatment Plan- in Pécs
Week 14	Exam
Week 15	Presentation Planning Assignment, Retake exam (if required)

Attendance:

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.

Grading:

Grading will follow the course structure with the following weight

10% - Class attendance, class activity

30% - Presentation

30% - Planning assignment

30% - Exam

A minimum of 55% is required to pass the exam

Offered exam grade

Numeric grade:	5	4	3	2	1
Evaluation in percents:	89%-100%	77%-88%	66%-76%	55%-65%	0-54%

Students with Special Needs:

Students with a disability and needs to request special accommodations, please, notify the Deans Office. Proper documentation of disability will be required. All attempts to provide an equal learning environment for all will be made.

Readings and Reference Materials:

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

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