

**General Information:**

<b>Name of Course:</b>	<b>PUBLIC UTILITIES</b>
<b>Course Code:</b>	PMRKGNB095CA
<b>Semester:</b>	4 <sup>nd</sup>
<b>Number of Credits:</b>	4
<b>Allotment of Hours per Week:</b>	2 Lectures, 2 Practices
<b>Evaluation:</b>	Exam (with grade)
<b>Prerequisites:</b>	None
<b>Instructor:</b>	<b>Dr. Judit PÁL-SCHREINER</b> Office: 7624, Pécs, Boszorkany u. 2. Office N° B302 E-mail: <a href="mailto:schreiner@mik.pte.hu">schreiner@mik.pte.hu</a>

**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 utilities

**Methodology:**

- **Lectures:** Lectures will give an introduction to the basic knowledge of the public utilities
- **Practical classes:** Students will be able to practice the basic calculations and design through planning assignment.
- **Exam:** Accumulated knowledge is tested in an exam.

**Schedule:**

Week	Topic of lecture
Week 1	Course description; Orientation
Week 2	Preparing Presentations, preparing planning assignment
Week 3	Definition of Public Utilities, Water Supply System, Catchment [presentations] , preparing planning assignment
Week 4	<i>Pollack Expo – no classes</i>
Week 5	Water Treatment, Water Demand [presentations] , preparing planning assignment
Week 6	<i>National Day– no classes</i>
Week 7	Water Distribution System [presentations] , preparing planning assignment
Week 8	Classification of Sewer Systems [presentations] , preparing planning assignment
Week 9	<i>Spring Break – no classes</i>
Week 10	Structures of the Sewer System [presentations] , preparing planning assignment

Week 11	Pumping Station [presentations] , preparing planning assignment
Week 12	Waste Water Treatment [presentations] , preparing planning assignment
Week 13	Site visit at Public Utilities Tunnels-/Water Management-/ Wastewater Treatment Plan- in Pécs
Week 14	<b>Exam test</b>
Week 15	<b>Presentation Planning Assignment, Retake exam test( if required)</b>

### **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 test

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/