Vocational School / Construction Technology

2024 - 2025 Academic Year

WATER SUPPLY and TRANSMISSION

Syllabus

Course Description					
Name	**Code**	**Semester**	**T+A Hour**	**Credit**	**ECTS**
WATER SUPPLY and TRANSMISSION	İNŞ2244420	Spring Semester	3+0	3	4

Prerequisites Courses	
Recommended Elective Courses	
Language of Instruction	Turkish
Course Level	Short Cycle (Associate's Degree)
Course Type	Required
Course Coordinator	Lect. Aybüke ALKANAT GÜNALTAY
Name of Lecturer(s)	Lect. Özge KARABAY
Assistant(s)	
Aim	It is aimed to teach necessary works for localization and utilisation of the water resources in environment.
Course Content	This course contains; 1. Introduction and basic definitions,2. Environmental health and human health,3. Drinking water characteristics and quality control,4. Classification of drinking water resources,5. Calculations of future population and water demand,6. Catchment,7. Transmission of water,8. Structures of transmission lines,9. Refinement of water,10. Accumulation of water,11. Water distribution systems,12. Waste water management and environment,13. Environmental parameters,14. The relationship between water supply and environmental health.

Course Learning Outcomes	**Teaching Methods**	**Assessment Methods**
At the end of this course, the student will be able to;		
1. Explain the concept of water consumption.	14, 16, 19, 37, 9	A
2. Classify water resources classify by explaining.	14, 16, 19, 9	A
3. Explain the concept of water supply.	13, 14, 16, 19, 9	A
4. Explain the methods of water supply.	13, 16, 19, 9	A
5. Explain the project criteria.	12, 13, 14, 2, 6, 9	A
6. Disclose information relating to the environment and environmental health.	13, 14, 16, 19, 9	A
7. Explain the criteria of environment and environmental health.	13, 14, 16, 19, 9	A
8. Evaluate the environmental parameters.	13, 14, 16, 19, 9	A
9. Explain the relationship between water supply and environmental health.	14, 16, 19, 9	A
10. Provide information about environmental health facilities.	13, 14, 16, 19, 37, 9	A

Teaching Methods	12: Problem Solving Method, 13: Case Study Method, 14: Self Study Method, 16: Question - Answer Technique, 19: Brainstorming Technique, 2: Project Based Learning Model, 37: Computer-Internet Supported Instruction, 6: Experiential Learning, 9: Lecture Method
Assessment Methods	A: Traditional Written Exam

Lecture Schedule

Sequence	**Topics**	**Preliminary Preparation**
1	1. Introduction and basic definitions	
2	2. Environmental health and human health	
3	3. Drinking water characteristics and quality control	
4	4. Classification of drinking water resources	
5	5. Calculations of future population and water demand	
6	6. Catchment	
7	7. Transmission of water	
8	8. Structures of transmission lines	
9	9. Refinement of water	
10	10. Accumulation of water	
11	11. Water distribution systems	
12	12. Waste water management and environment	
13	13. Environmental parameters	
14	14. The relationship between water supply and environmental health	

Evaluation Methods	**Weight(%)**
Midterm Exam	40
General Exam	60

Resources
Course PresentationsMuslu, Y., "Çözümlü Problemlerle Su Temini ve Çevre Sağlığı", Fourth Edition, Su Vakfı Yayınları.