School of Fine Arts Design and Architecture / Urban Design and Landscape Architecture

2023 - 2024 Academic Year

ENVIRONMENTAL SYSTEMS

Syllabus

Course Description					
Name	**Code**	**Semester**	**T+A Hour**	**Credit**	**ECTS**
ENVIRONMENTAL SYSTEMS	KTP2269010	Spring Semester	2+0	2	2

Prerequisites Courses	
Recommended Elective Courses	
Language of Instruction	Turkish
Course Level	First Cycle (Bachelor's Degree)
Course Type	Required
Course Coordinator	Assist.Prof. Mustafa ERDEM
Name of Lecturer(s)	Prof.Dr. Nazire Papatya SEÇKİN TAHTALIOĞLU
Assistant(s)	
Aim	Identification and introduction of environmental systems to understand increasing environmental destruction in the industrialized world.
Course Content	This course contains; Introduction to the course: Identification and introduction of environmental systems to understand increasing environmental destruction in the industrialized world.,Environmental problems: Air pollution, Water pollution, Soil pollution, Radioactive pollution, Noise pollution, Erosion.,Urban drinking water management: management of water resources, control and disposal of pollutants.,Urban wastewater management: planning of sewerage systems, recovery and reuse of wastewater, rainwater drainage systems and leachate management.,Infrastructure and superstructure applications and problems from past to nowadays.,Global warming: Climate-linked urban design methods.,Urban resilience and management of current environmental issues such as climate change, biodiversity and resilience to natural disasters in cities,New approaches in environmental protection and regulation.,Environmental law approaches.,Environmental policy approaches.,Environmental economics approaches.,Environmental planning, Environmental health.,Energy, Energy environment relation, Renewable energy sources.,Our common future; sustainable development, the principles about the continuity of the earth..

Course Learning Outcomes	**Teaching Methods**	**Assessment Methods**
3-Evaluating the development trends of environmental systems for the future.	10	A, E
2-Understanding the environmental systems in developed and developing countries.	10	A, E
1-Understanding complex and dynamic environmental systems.	10	A, E
4-Use the knowledge about environmental law and policy.		
5-Perceives and analyzes the technical, legal and theoretical framework about environmental protection.		

Teaching Methods	10: Discussion Method
Assessment Methods	A: Traditional Written Exam, E: Homework

Lecture Schedule

Sequence	**Topics**	**Preliminary Preparation**
1	Introduction to the course: Identification and introduction of environmental systems to understand increasing environmental destruction in the industrialized world.	
2	Environmental problems: Air pollution, Water pollution, Soil pollution, Radioactive pollution, Noise pollution, Erosion.	
3	Urban drinking water management: management of water resources, control and disposal of pollutants.	
4	Urban wastewater management: planning of sewerage systems, recovery and reuse of wastewater, rainwater drainage systems and leachate management.	
5	Infrastructure and superstructure applications and problems from past to nowadays.	
6	Global warming: Climate-linked urban design methods.	
7	Urban resilience and management of current environmental issues such as climate change, biodiversity and resilience to natural disasters in cities	
8	New approaches in environmental protection and regulation.	
9	Environmental law approaches.	
10	Environmental policy approaches.	
11	Environmental economics approaches.	
12	Environmental planning, Environmental health.	
13	Energy, Energy environment relation, Renewable energy sources.	
14	Our common future; sustainable development, the principles about the continuity of the earth.	

Evaluation Methods	**Weight(%)**
Midterm Exam	50
General Exam	50

Resources

Resources:

1) Kocataş, A. (2014) Ekoloji, Dora Yayınevi.
2) Akman, Y. (2012) Çevre Kirliliği, Palme Kitabevi.
3) Aydoğdu, M., Gezer, K. (2006) Çevre Bilimi, Anı Kitabevi.