

**School of Fine Arts Design and Architecture / Architecture**

**2023 - 2024 Academic Year**

**DESIGN after DROUGHT**

**Syllabus**

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
DESIGN after DROUGHT	MIM3110068	Fall Semester	3+1	3,5	4
<b>Prerequisites Courses</b>					
<b>Recommended Elective Courses</b>					
<b>Language of Instruction</b>	Turkish				
<b>Course Level</b>	First Cycle (Bachelor's Degree)				
<b>Course Type</b>	Elective				
<b>Course Coordinator</b>	Assist.Prof. Hamdi ERGÜL				
<b>Name of Lecturer(s)</b>	Assist.Prof. Hamdi ERGÜL				
<b>Assistant(s)</b>					
<b>Aim</b>	To comprehend Permaculture analysis as a science of design. The aim of permaculture is to establish a sustainable system. The most important stage of a sustainable system is to reproduce and use the resources in various ways by reducing the need for the outside. The way to build a self-renewing, repairing and producing system is through here. Conceptual design concepts and design approaches after drought will be examined. Theoretical explanations of soil, arid, and temperate regions, water conservation and harvesting of water; to understand the pattern of living organisms, to make learning and developing designs. To be able to develop designs that are consistent with the principles of nature, sustainable life principles, and understanding of life.				
<b>Course Content</b>	This course contains; Concepts and themes in design.,Methodology and methodology in design.,Understanding of Pattern,In terms of entropy; Sustainable Design Approach.,Design principles and ethics in design.,Climatic Factors.,Midterm Exam,Trees and Energy flows.,Water and Soil,Arid field strategies, Tropical and temperate field strategies.,Aquaculture,Buildings; Moderate climate house, Arid climate house Design,Buildings; tropical climate house design. Plant Houses,Final Exam.				
<b>Course Learning Outcomes</b>			<b>Teaching Methods</b>	<b>Assessment Methods</b>	
Self-contained living environment to create self-contained living environment.			9	A	
A new look at ecological life			19, 9	A, E	
Sustainability Design approach,			19, 9	A	
New design approaches in drought due to global climate change,			19	A	
In the arid climates, the importance of land reclamation and water harvesting, learning the design principles attached to them.			19, 9		
To understand the pattern of natural systems			19, 9	A	
<b>Teaching Methods</b>	19: Brainstorming Technique, 9: Lecture Method				
<b>Assessment Methods</b>	A: Traditional Written Exam, E: Homework				
<b>Lecture Schedule</b>					
<b>Sequence</b>	<b>Topics</b>	<b>Preliminary Preparation</b>			
1	Concepts and themes in design.				
2	Methodology and methodology in design.				
3	Understanding of Pattern				
4	In terms of entropy; Sustainable Design Approach,				
5	Design principles and ethics in design,				
6	Climatic Factors.				
7	Midterm Exam				
8	Trees and Energy flows,				
9	Water and Soil				
10	Arid field strategies, Tropical and temperate field strategies,				
11	Aquaculture				
12	Buildings; Moderate climate house, Arid climate house Design				
13	Buildings; tropical climate house design. Plant Houses				
14	Final Exam				
<b>Evaluation Methods</b>		<b>Weight(%)</b>			
Midterm Exam		50			
General Exam		50			

Resources
TO BE DİSTRİBUTED BY THE LECTURER Mollison, B., Permakültüre Giriş, Sinek Sekiz Yayınları, 2011, İstanbul.
Kellog, S., Pettigrew, S., Sürdürülebilir Yaşam Rehberi, Sinek Sekiz yayınları, 2013, İstanbul.
Fukuoka, M., Doğal Tarımın Yolu Felsefesi ve Uygulaması, Kaos Yayınları, 2011, İstanbul.
Berger, W., Lorenz, C., Kompost Tuvaletler Susuz Sıhhi Teknikler, Yeni İnsan Yayınevi, 2017, İstanbul.
Hemenway, T. Permakültür Bahçeleri, Yeni İnsan Yayınevi, 2017, İstanbul.
Hemenway, T. Permakültür Şehirde, Yeni İnsan Yayınevi, 2018, İstanbul.
Thoreau, D., H., Doğal Yaşam ve Başkaldırı, Kaknüs Yayınları, 2004, İstanbul.
Rifkin, J., T., Howard, T., Entropi Dünyaya Yeni Bir Bakış, İz Yayıncılık, 2010, İstanbul.
Meadows, D.H., Meadows, D.L., Randers, J., Behrens III, W.W., Ekonomik Büyümenin Sınırları, İstanbul Yayın Evi, 1978, İstanbul.
Ehrlich, P. H., Nüfus Bombası, Ayyıldız Matbaası, 1976
Wohleben, P., Ağaçların Gizli Yaşamı Ne Hissederler, Nasıl İletişim Kurarlar? Sırlarla Dolu Bir Dünyada Keşifler, Kitap Kurdu Yayınları, 2018, İstanbul.
Diamond, J., Çöküş/Medeniyetler Nasıl Ayakta Kalır ya da Yıkılır? Timaş Yayınları, 2006 İstanbul.
Diamond, J., Tüfek Mikrop ve Çelik, Tübitak Yayınları, 2016, İstanbul.
Aşanlı, M., Geleneksel Yapı Teknikleri Doğal ve Ekolojik Yapı Rehberi, Yeni İnsan Yayınevi, 2016, İstanbul.
Chödrön, P., Belirsizlik ve Değişimle Birlikte Güzel bir Hayat, Sinek Sekiz yayınları, 2015, İstanbul.
Pollan, M., Bana Ait Bir Yer, Sinek Sekiz yayınları, 2015.
Shiva, V., İyilerin Yanında, Sinek Sekiz yayınları, 2012.