

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
LANDSCAPE ECOLOGY	KTP3211419	Spring Semester	2+0	2	2
<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>	Required				
<b>Course Coordinator</b>	Assoc.Prof. Bahar BAŞER KALYONCUOĞLU				
<b>Name of Lecturer(s)</b>	Lect. Jale GÜREL, Assoc.Prof. Bahar BAŞER KALYONCUOĞLU				
<b>Assistant(s)</b>	Araş.Gör. Ezgi KOCAZEYBEK				
<b>Aim</b>	The aim of the course is to students; is to transfer the concept of ecology and the evolution of the concept in the historical process, knowledge of landscape and landscape ecology, the use of the concept of landscape ecology in landscape design, research of ecological landscape design concepts, and transfer of landscape design concepts developed for current ecological problems and solutions.				
<b>Course Content</b>	This course contains; Introduction / Introduction of the Course,Definition of ecology / Eco-discourse / Ecological concepts,Landscape Ecology and Basic Concepts / Description / Scope,Biotic and abiotic factors that make up the structure of the landscape,Mechanisms shaping the landscape,Sustainability concept - Ecological Planning, Ecological Networks and Green Corridors,GIS and Landscape Ecology Studies,Ecosystem service concept,Urban Ecology, Ecological Design concepts and project examples, Ecological Design concepts and project examples, Ecological Design concepts and project examples, Final Presentations.				
<b>Course Learning Outcomes</b>			<b>Teaching Methods</b>	<b>Assessment Methods</b>	
1. Gains the detection and characterization methods of landscape pattern comprehensively.				A, E	
2. Analyze the guiding and determining role of landscape structure, function and change in landscape architecture applications.				A, E	
3. Understands the importance of ecological planning in environmental protection and planning and gets information about ecological planning areas.				A, E	
4. An interdisciplinary study works and learns; in particular, it acquires the interdisciplinary team problem under solving.				A, E	
<b>Teaching Methods</b>					
<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	Introduction / Introduction of the Course				
2	Definition of ecology / Eco-discourse / Ecological concepts				
3	Landscape Ecology and Basic Concepts / Description / Scope				
4	Biotic and abiotic factors that make up the structure of the landscape				
5	Mechanisms shaping the landscape				
6	Sustainability concept - Ecological Planning				
7	Ecological Networks and Green Corridors				
8	GIS and Landscape Ecology Studies				
9	Ecosystem service concept				
10	Urban Ecology				
11	Ecological Design concepts and project examples				
12	Ecological Design concepts and project examples				
13	Ecological Design concepts and project examples				
14	Final Presentations				
<b>Evaluation Methods</b>		<b>Weight(%)</b>			
Midterm Exam		50			
General Exam		50			

Resources	
•	Landscape Ecology in Theory and Practice: Pattern and Process, Turner, Monica G., Gardner, Robert H., Springer; 2001 edition (April 27, 2001)
•	Key Topics in Landscape Ecology (Cambridge Studies in Landscape Ecology) , Cambridge University Press; 1 edition (June 18, 2007), Jianguo Wu (Editor)
•	Landscape Ecology, Jianguo Wu (Editor) Springer Netherlands, Volume 1 / 1988 - Volume 34 / 2019
•	Peyzaj Mimarları için Ekoloji, Prof.Dr. Doğanay Tolunay, İstanbul Üniversitesi Orman Fakültesi
•	Peyzaj Ekolojisi, Necmettin Çepel, İstanbul Üniv.Orman Fakültesi Yay., 1988
•	Belknap, R. K. and Furtado, J.G. 1967. Three Approaches to Environmental Resource Analysis. The Conservation Foundation, Washington, D.C. USA.
•	Cook E.,A. and van Lier H., N. 1994. "Landscape Planning and Ecological Networks" . ELSEVIER Science B. V, ISBN 0-444-82084-1. The Netherlands.
•	Dramstad, W.E., Olson, J.D. and Forman, R.T.T., 1996. Landscape Ecology Principles in Landscape Architecture and Land-Use Planning, Island Press.
•	Forman, R.T.T and Godron M., 1986. "Landscape Ecology" John Wiley & Sons , Sayfa 10, Newyork
•	MAPA- ICONA. 1983. "Paisajes Erosivos a el Sureste Espanol: Ensayo de Metodologia Pana el Estudio de su Cualificacion y Cuantificocion". Projecho Lucdeme. Spain.
•	Martinez-Falero, E. and Gonzalez-Alonso, S. (Eds.), 1995. " Techniques in Landscape Planning". Boca Raton: Lewis Publishers.