

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

2024 - 2025 Academic Year

LAND DESING TECHNIQUES

Syllabus

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
LAND DESING TECHNIQUES	KTP2169020	Fall Semester	2+2	3	4
Prerequisites Courses					
Recommended Elective Courses					
Language of Instruction	Turkish				
Course Level	First Cycle (Bachelor's Degree)				
Course Type	Required				
Course Coordinator	Assoc.Prof. Bahar BAŞER KALYONCUOĞLU				
Name of Lecturer(s)	Lect. Hasan Emrah ÖZARSLAN				
Assistant(s)					
Aim	It is aimed to emphasize the importance of natural design elements such as topography, micro and macro climate variability, to create technical infrastructure in shaping and adaptation of land surface in the frame of protection of natural and cultural resources, and to relate the appropriate design and technical aspects to the land.				
Course Content	This course contains; Introduce to Content, Scope and Flow of This Course,Three Dimensional Detection of Land and Determination of Land Form with Elevation Curves,Recognition, Usage and Protection of Urban Land ,Slope Tools,Landforming and Techniques,Calculation of Excavation and Filling Volumes,Enclousure Elements, Stairs and Steps, Ramp and Wall Solutions,Slope solving techniques by stairs and ramps.,Rainwater Quality Control: Surface Water Directing and Storage, Importance of Vegetable Elements,Rainwater Quality Control: Structural Elements for Surface Drainage (Channels, Grids),Transportation Circulation: Horizontal and Vertical Road Sections, Pathways that are Suitable for Sightlines,Parking Arrangement: Types of Parking, Placement and Layout,Natural Land Compatible Design and Technical Aspects,Landscape Design Project Examples from Landscape Design and Technical Subjects,Landscape Design Project Examples from Landscape Design and Technical Subjects.				
Course Learning Outcomes				Teaching Methods	Assessment Methods
1. Designs circulation systems and related elements.					A, E
2. Integrates land engineering and technical knowledge with design.				12, 2	A, F
3. Knows and applies the construction techniques of landscape elements.				12, 2, 9	A, F
4. Develops technical solutions on land analysis and leveling issues.				2	F
5. Develops technical solutions for drainage systems and erosion control.				2	F
6. Represents land forms and describes their formation events.				13, 9	A, E
Teaching Methods	12: Problem Solving Method, 13: Case Study Method, 2: Project Based Learning Model, 9: Lecture Method				
Assessment Methods	A: Traditional Written Exam, E: Homework, F: Project Task				
Lecture Schedule					
Sequenc e	Topics	Preliminary Preparation			
1	Introduce to Content, Scope and Flow of This Course				
2	Three Dimensional Detection of Land and Determination of Land Form with Elevation Curves				
3	Recognition, Usage and Protection of Urban Land				
3	Slope Tools				
4	Landforming and Techniques				
5	Calculation of Excavation and Filling Volumes				
6	Enclousure Elements, Stairs and Steps, Ramp and Wall Solutions				
7	Slope solving techniques by stairs and ramps.				
8	Rainwater Quality Control: Surface Water Directing and Storage, Importance of Vegetable Elements				
9	Rainwater Quality Control: Structural Elements for Surface Drainage (Channels, Grids)				
10	Transportation Circulation: Horizontal and Vertical Road Sections, Pathways that are Suitable for Sightlines				
11	Parking Arrangement: Types of Parking, Placement and Layout				
12	Natural Land Compatible Design and Technical Aspects				
13	Landscape Design Project Examples from Landscape Design and Technical Subjects				
14	Landscape Design Project Examples from Landscape Design and Technical Subjects				
Evaluation Methods		Weight(%)			
Midterm Exam		50			
General Exam		50			

Resources	
1. Blanc, A. (1996) Landscape Construction and Detailing, London.	
2. Landphair H. and F. Klatt (1998) Landscape Architecture Construction, Prentice Hall PTR.	
3. Parker, H. & J.W. (1997). MacGuire, Simplified Site Engineering, Wiley	
4. Smith, S.W. (1996) Landscape Irrigation: Design and Management, Wiley.	
5. Thompson, J.W., (2007) Sustainable Landscape Construction: A Guide to Green Building Outdoors, Island Press.	
6. Walker, T.D. (1992) Site Design and Construction Detailing, Van Nost Rand Reinhold, New York.	
7. Zimmermann, A. (2009) Constructing Landscape: Materials, Techniques, Structural (Textbook) Components, Birkhäuser Basel.	