COURSE INFORMATON					
Course Title	*Code*	*Semester*	*L+P Hour*	*Credits*	*ECTS*
SUSTAINABLE URBAN OPEN SPACES	LAUD 505		3+0	3	10

Prerequisites	

Language of Instruction	English
Course Level	Graduate
Course Type	Elective
Course Coordinator	
Instructors	Asst. Prof. Dr. Pınar Karakaş
Assistants	
Goals	The aim of this course is to make the students use the sustainability approach efficiently in their professional studies by giving basic knowledge on the concepts of sustainability and sustainable design.
Content	The concept of sustainability, the historical background, the concept and principles of sustainable design, tools and methods of sustainable design, life-cycle thinking, life-cycle assessment, green building materials, green building certifications, principles of sustainable urban open spaces, sustainable cities and communities, developments in recent years.

Learning Outcomes	**Program Learning Outcomes**	**Teaching Methods**	**Assessment Methods**
1) Explains the basic concepts of sustainability and sustainable design.		1,2,3	A,C
2) Explains the tools and the methods of sustainable design.		1,2,3	A,C
3) Applies principles of sustainable urban open space.		1,2,3	A,C
4) Compares different approaches to the urban open space studies from sustainability perspective.		1,2,3,5,6	A,C
5) Analyzes the urban open spaces in terms of sustainability.		1,2,3,5,6	A,C

Teaching Methods:	1: Lecture, 2: Question-Answer, 3: Discussion, 4:Drawing, 5:Case Study 6: Presentation
Assessment Methods:	A: Testing, C: Homework

COURSE CONTENT		
Week	**Topics**	**Study Materials**
1	INTRODUCTION: HISTORY OF SUSTAINABLE DEVELOPMENT, THE CONCEPT OF SUSTAINABILITY	Sustainable Development
2	SUSTAINABLE DESIGN, PRINCIPLES OF SUSTAINABLE DESIGN, TOOLS AND METHODS OF SUSTAINABLE DESIGN	Sustainable Design
3	LIFE-CYCLE THINKING, LIFE-CYCLE ASSESSMENT	Sustainable Design
4	INPUTS AND OUTPUTS ASSOCIATED WITH BUILDING MATERIALS / PRODUCTS	Sustainable Design
5	GREEN BUILDING MATERIALS	Sustainable Design
6	THE PRODUCT SELECTION PROCESS, EVALUATION TOOLS OF BUILDING MATERIALS	Sustainable Design
7	GREEN BUILDING CERTIFICATIONS: LEED AND BREEAM ETC.	Sustainable Design
8	MIDTERM EXAM	
9	PRINCIPLES OF SUSTAINABLE SITE DESIGN	Sustainable Urban Open Spaces
10	PRINCIPLES OF SUSTAINABLE SITE DESIGN	Sustainable Urban Open Spaces
11	GREEN ROOFS, GREEN WALLS, RAIN GARDENS, XERISCAPING, ETC.	Sustainable Urban Open Spaces
12	SUSTAINABLE CITIES AND COMMUNITIES	Sustainable Urban Open Spaces
13	CASE STUDIES IN RECENT YEARS	Sustainable Urban Open Spaces
14	CASE STUDIES IN RECENT YEARS	Sustainable Urban Open Spaces

RECOMMENDED SOURCES	
Textbook	Karakaş, P. (2019) Sustainable Urban Open Spaces Lecture Notes
Additional Resources	Venhaus, H. (2012) Designing the Sustainable Site. Cooper, R., Evans, G. and Boyko, C. (eds.) (2008) Designing Sustainable Cities. Coyle, S. (2011) Sustainable and Resilient Communities Calkins, M., (2009) Materials for Sustainable Sites Jenks, M. & Colin, J., (2010) Dimensions of the Sustainable City Hopper, L.J., (2007) Landscape Architectural Graphic Standarts

MATERIAL SHARING	
Documents	Case Studies
Assignments	Examination of the Sustainable Urban Open Spaces
Exams	Seminar and Presentation / Written

ASSESSMENT		
IN-TERM STUDIES	**NUMBER**	**PERCENTAGE**
Mid-term	1	50
Assignment	1	50
Total		**100**
CONTRIBUTION OF FINAL EXAMINATION TO OVERALL GRADE		50
CONTRIBUTION OF IN-TERM STUDIES TO OVERALL GRADE		50
Total		**100**

COURSE CATEGORY	Expertise/Field Courses

COURSE'S CONTRIBUTION TO PROGRAM

No	Program Learning Outcomes	Contribution				
		1	2	3	4	5
1	Develops and deepens the theoretical and practical knowledge at the level of expertise in the field of Urban Design and Landscape Architecture, based on the qualifications of undergraduate education.					X
2	Has knowledge of legal and managerial issues such as national / international environmental policies and legislation, as well as discusses current developments and changes.				X	
3	Has critical awareness of the nature of knowledge, its sources, and the problems of knowledge production and the testing of knowledge in the areas of Architecture / planning / design and Interfaces between other related areas. Is able to discuss the interaction between disciplines related to the field.					X
4	Has extensive knowledge of the criteria and processes that are effective in determining urban design requirements such as socio-economic and spatial standards and the ability to use these criteria within the design process.			X		
5	Knows world examples in urban design and its parts, follows current developments and has an idea about how they can be handled according to					X

	the conditions of the country.					
6	Has extensive knowledge about the current techniques and methods applied in the field of Biological-Ecological Environmental Protection (Nature conservation, landscape planning, recreational planning, Green area planning, protected area planning, etc.) and solutions for local and global environmental problems and their limitations.					X
7	Has extensive knowledge about ecosystem, biodiversity and sustainable resource management, rural development, design, planning and technology use.					X
8	Has the ability to prepare urban design / landscape design projects or research projects based on theoretical and practical knowledge by following /producing innovative methods and ideas.					X
9	Has problem-solving skills necessary for integrating knowledge from different fields and the ability to critically evaluate academic research.			X		
10	Has the competence to access information, databases and other resources, and conduct specific scientific studies, as well as the ability to share and discuss open and systematic knowledge with experts and non-experts.			X		
11	Is conscious of the social and professional ethical responsibilities that may arise from the application of information and decisions.			X		
12	Protects public benefit in the design of urban components and the shaping of the city as a whole, and acts with social responsibility					X
13	Has the attitude to decide and act with judicial awareness by showing respect to human, social and cultural rights, and by being sensitive to the protection of the natural environment and cultural heritage.					X

ECTS ALLOCATED BASED ON STUDENT WORKLOAD BY THE COURSE DESCRIPTION

Activities	Quantity	Duration (Hour)	Total Workload (Hour)
Course Duration (Including the exam week: 16 x Total course hours)	16	3	48
Hours for off-the-classroom study (Pre-study, practice)	16	10	160
Mid-term exam	1	16	16
Homework	1	10	10
Final examination	1	16	16
Total Work Load			250
Total Work Load / 25 (h)			10
ECTS Credit of the Course			10