LANDSCAPE CONSTRUCTION II (MATERIALS AND DETAIL INFORMATION)

1	Course Title:	LANDSCAPE CONSTRUCTION II (MATERIALS AND DETAIL INFORMATION)
2	Course Code:	PYZ2002
3	Type of Course:	Compulsory
4	Level of Course:	First Cycle
5	Year of Study:	2
6	Semester:	4
7	ECTS Credits Allocated:	4.00
8	Theoretical (hour/week):	2.00
9	Practice (hour/week):	2.00
10	Laboratory (hour/week):	0
11	Prerequisites:	None
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Doç. Dr. ZEYNEP PİRSELİMOĞLU BATMAN
15	Course Lecturers:	Doç.Dr. Zeynep PİRSELİMOĞLU BATMAN
16	Contact information of the Course Coordinator:	Doç.Dr. Zeynep PİRSELİMOĞLU BATMAN Bursa Uludağ Üniversitesi Ziraat Fakültesi Peyzaj Mimarlığı Bölümü Görükle Kampüsü 16059 Nilüfer/Bursa Tel: 0 224 294 1635 Fax: 0 224 294 1637 e-posta: zeynepbatman@uludag.edu.tr
17	Website:	
18	Objective of the Course:	Introduction to materials science, classification of materials, important properties of materials, general engineering materials (iron-steel alloys, non-ferrous alloys, ceramics, polymers and composites) overview, selection of materials, the relationship between design and construction materials The construction details of the construction elements are intended to be given.
19	Contribution of the Course to Professional Development:	The information obtained in this course enables the materials used in landscape architecture studies to be selected correctly in terms of ecological, economical, aesthetic and functional principles, and detailed drawings for application are made completely.
20	Learning Outcomes:	
	1	To be able to understand material science
	2	To be able to register the relation with design and structural materials
	3	To be able to learn material elements in landscape architecture
	4	To be able to learn basic construction elements' detail information
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21	Course Content:	
	Course Content:	
Week	Theoretical	Practice
1	Introduction to material science, material relations in landscape application, building legislation	Literature research
2	Structure materials used in landscape architecture, properties, usage areas and building - structure relation	Literature research, student work
3	Stone materials properties and areas of use	Literature research, student work
4	The properties and usage areas of iron-steel alloys and non-ferrous alloys will be explained.	Literature research, student work
5	General properties and usage areas of ceramic, polymer and composite, concrete, aerated concrete and vine (membrane) system materials	Literature research, student work
6	General properties of wood materials and binder-protective materials, usage areas	Literature research, student work
7	Roads (pedestrian and vehicle road), pedestrian bridges, floor and floor covering elements detail solutions	Detail design about lecture's subject, developing technique specification
8	Roads (pedestrian and vehicle road), pedestrian bridges, floor and floor covering elements detail solutions	Detail design about lecture's subject, developing technique specification
9	Detail solutions for curbs, stairs, ramps	Detail design about lecture's subject, developing technique
11	Detail solutions of cover elements (Pergola, gazebo, etc.)	Detail design about lecture's subject, developing technique specification
12	Detail solutions of water elements (pools etc.)	Detail design about lecture's subject, developing technique specification
13	(banking, lighting, trash cans etc.)	
14	Detail solutions of sports and playground	Detail design about lecture's subject, developing technique

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	14	2.00	28.00
Self study and preperation	14	2.00	28.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	16.00	16.00
Others	0	0.00	0.00
Final Exams	1	20.00	20.00
Total Work Load			120.00
Total work load/ 30 hr			4.00
ECTS Credit of the Course			4.00

22	Textbooks, References and/or Other Materials:	• Uzun, G. 1998, Yapı materyalleri. Çukurova üniversitesi ziraat Fakültesi Ofset Atölyesi • Uzun, G. 1998.Peyzaj Konstrüksiyonunda Yapı Materyalleri. Çukurova üniversitesi ziraat Fakültesi Ofset Atölyesi • Uzun, G., 1999. Peyzaj Konstrüksiyonu. Çukurova Üniversitesi Ziraat Fakültesi Yayın No: 125, Kitap Yayın No: 37, Adana. • Malzeme Bilimi ve Mühendislik Malzemeleri, Yazarı: D.R. Askeland Çeviren: Dr. M. Erdoğan Nobel Yay. • Malzeme Bilimi Problemleri ve Çözümleri, Prof. Dr. Kaşif Onaran Bilim Teknik Yayınevi • Introduction to Materials Science for Engineers-J.F. Shackleford Prentice-Hill • Fundamentals of Materials Science and Engineering: An Integrated Approach, 2nd Edition, W.D. Callister, Wiley Pub. • Materials: Engineering, Science, Processing and Design by Michael Ashby, Hugh Shercliff, and David Cebon • Anonim, 1996 , Yapı işleri mevzuatı el kitabı,TMMOB İnşaat Mük. Odası Ankara Şubesi • Chiara, Joseph., Koppelman ,Lee: 1974 . Site planning standarts, McGraw - Hill book kampany New York. • Chings, Francis, 2006. Çizimlerle bina yapım rehberi YEM 1: İstanbul • Anonim. 1979, Neufert, Yapı tasarımı temel bilgileri Güvey yayıncılık . İstanbul.
23	Assesment	

TERM LEARNING ACTIVITIES	**NUMBER**	**WEIGHT**
Midterm Exam	1	20.00
Quiz	0	0.00
Home work-project	1	20.00
Final Exam	1	60.00
Total	3	100.00
Contribution of Term (Year) Learning Activities to Success Grade		40.00
Contribution of Final Exam to Success Grade		60.00
Total		100.00
Measurement and Evaluation Techniques Used in the Course		One homework, one midterm exam and one final exam is evaluated by relative evaluation.

24 ECTS / WORK LOAD TABLE

25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS

	PQ1	**PQ2**	**PQ3**	**PQ4**	**PQ5**	**PQ6**	**PQ7**	**PQ8**	**PQ9**	**PQ10**	**PQ11**	**PQ12**	**PQ13**	**PQ14**	**PQ15**	**PQ16**
ÖK1	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	0	0	5	5	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	0	0	0	0	0	0	0	0	4	5	0	0	0	0	0	0
ÖK4	0	0	0	0	0	4	5	0	0	0	0	0	0	0	0	0

LO: Learning Objectives PQ: Program Qualifications

Contribution Level:	1 very low	2 low	3 Medium	4 High	5 Very High