GROUND COVER PLANTS

1	Course Title:	GROUND COVER PLANTS	
2	Course Code:	SBYS408	
3	Type of Course:	Optional	
4	Level of Course:	Short Cycle	
5	Year of Study:	2	
6	Semester:	4	
7	ECTS Credits Allocated:	3.00	
8	Theoretical (hour/week):	1.00	
9	Practice (hour/week):	2.00	
10	Laboratory (hour/week):	0	
11	Prerequisites:	-	
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Öğr. Gör. Dr. YILMAZ DORUK	
15	Course Lecturers:	Öğr.Gör.Dr.Yılmaz DORUK	
16	Contact information of the Course Coordinator:	yzdoruk@uludag.edu.tr, 02242942374, U.Ü.Teknik Bilimler Meslek Yüksekokulu B Blok-Görükle Kampüsü/Bursa	
17	Website:		
18	Objective of the Course:	To introduce and teach the botanical, physiological and agronomical aspects of widely used grasses and cover crops for turf production and soil concervation projects. To let the students to gain the ability to decide how to benefit from genus, species and cultivars. To equip them with the information of growing and application production techniques of different grass genus and cover crops.	
19	Contribution of the Course to Professional Development:		
20	Learning Outcomes:		
		1	To comprehend the value of grasses and cover crops activities in a sustainable environment and agricultural production.
		2	To know characteristics of Warm and Cool Climate species and approve species.
		3	To choose suitable species in Landscape Studies and to make suitable grass mixture.
		4	To make preparation of soil and ground at he stage of System of Grass Areas. To plant grass and after that to conduct restoration efforts
		5	Making students able to understand Sedum, Carpobrotus, Cerastium, Alyssum, Armeria, Sempervivum , Arenaria, Hypericum,and Potentilla genus, their identify , ecological requirements,general characteristics and production techniques.
		6	Making students able to understand Ajuga , Convallaria , Chamaemelum, Verbena, Hedera , Gazania, Veronica, Viola , Vinca, Hosta, Liriope, Mahonia and Euonymus genus, their identify , ecological requirements,general characteristics and production techniques.
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21	Course Content:	
	Course Content:	
Week	Theoretical	Practice
1	Importance, content and introduction	- Identify of grass seeds
2	Importance of turf grasses and cover crop in a sustainable environment	- Land and soil preparation on site
3	The fundamental biological and morphological aspects of turf and cover crops grasses	- grass mixtures ,Mixing special preparation techniques
4	General Growing technique, seeding, transplanting and maintenance procedures of turf and gasses and cover crops	- Grass land design with seeds
5	Cool-season turf grasses, examples and usage	- Grass diseases,Irrigation and fertilization techniques
6	Warm-season turf grasses, examples and usage Cool-season cover crops (soil concervation crops)	- Introduction of Sedum, Carpobrotus, Cerastium, Alyssum and Armeria genus
7	Introduction and general characteristics of Hedera , Gazania, Veronica and Viola genus	- Introduction of Ajuga , Convallaria , Chamaemelum and Verbena genus
8	Course review and Mid-term exam	- Introduction of Hedera , Gazania, Veronica and Viola genus
9	Introduction and general characteristics of Vinca, Hosta, Liriope, Mahonia and Euonymus genus	-Application to mowing in lawn areas
10	Introduction and general characteristics of Juniperus, Thymus and Pachysandra genus	-Application to aeration in lawn areas
11	Introduction and general characteristics of Cotoneaster ,Abelia, Pittosporum and Dichondra genus	- Introduction of Vinca, Hosta, Liriope, Mahonia and Euonymus genus
12	Mid-term exam and introduction and general characteristics of Ajuga , Convallaria , Chamaemelum and Verbena genus	- Introduction of Juniperus, Thymus and Pachysandra genus
13	Introduction and general characteristics of Sempervivum , Arenaria, Hypericum and Potentilla genus	- Introduction of Cotoneaster ,Abelia, Pittosporum and Dichondra genus
14	Introduction and general characteristics of Sedum, Carpobrotus, Cerastium, Alyssum and Armeria genus	- Introduction of Sempervivum , Arenaria, Hypericum and Potentilla genus

22	Textbooks, References and/or Other Materials:	• Yücel,E. 2004. Çiçekler ve Yerörtücüler. İkinci Baskı.Eskişehir.ISBN 975-93746-1-7 , 359 s. • Çelem, H. 1983. Yer Örtücü Bitkiler Ders Notları-AÜZF Peyzaj Mimarlığı. • Ceylan , G.1999. Dış Mekan Süs Bitkileri ve Peyzajda Kullanımları –Flora Yayınları-İstanbul • Süs Bitkileri.1996. Mengüç,A. Anadolu Üniversitesi, Açıköğretim Fakültesi Yayınları.Eskişehir. • Lisa, F. At. All. (Editors) 1999. Botanica. 997 p. • Gordon, C. 1992. Trees and Shrubs for Temperate Climates. • Uluocak, N., 1994. Yerörtücü Bitkiler Ders Kitabı.i:Ü. Orman Fakültesi Havza Amenajman Anabilim Dalı,330s, İstanbul. • Avcıoğlu, R., 1997. Çim Tekniği Yeşil Alanların Ekimi, Dikimi ve Bakımı. Ege Üniversitesi Matbaası, 271s., İzmir. • Erdem, Ü., 1986. Çim Alanlar, Çim Alan Planlama ve Uygulama Tekniği. Milli Eğitim Gençlik ve Spor Bakanlığı Beden Terbiyesi ve Spor İl Müdürlüğü Yayınları, İzmir, 12 s. • Uzun, G., 1992. Peyzaj Mimarlığında Çim ve Spor Alanları Yapımı. Çukurova Ziraat Fakültesi Yardımcı Ders Kitabı No. 20, 1-170s., Adana.
23	Assesment	

TERM LEARNING ACTIVITIES	**NUMBER**	**WEIGHT**
Midterm Exam	2	40.00
Quiz	0	0.00
Home work-project	0	0.00
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		

24 ECTS / WORK LOAD TABLE

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	1.00	14.00
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	2	6.00	12.00
Others	0	0.00	0.00
Final Exams	1	10.00	10.00
Total Work Load			92.00
Total work load/ 30 hr			3.07
ECTS Credit of the Course			3.00

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	1	2	0	0	5	3	0	0	4	0	0	0	0	0	0	0
ÖK2	1	2	0	0	5	3	0	0	4	0	0	0	0	0	0	0
ÖK3	1	2	0	0	5	3	0	0	4	0	0	0	0	0	0	0
ÖK4	1	2	0	0	5	3	0	0	4	0	0	0	0	0	0	0
ÖK5	1	2	0	0	5	3	0	0	4	0	0	0	0	0	0	0
ÖK6	1	2	0	0	5	3	0	0	4	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**						