

## RECOGNITION OF DECIDUOUS TREES IN WINTER

1	Course Title:	RECOGNITION OF DECIDUOUS TREES IN WINTER	
2	Course Code:	BIO5120	
3	Type of Course:	Optional	
4	Level of Course:	Second Cycle	
5	Year of Study:	1	
6	Semester:	2	
7	ECTS Credits Allocated:	6.00	
8	Theoretical (hour/week):	2.00	
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:	Prof. Dr. ADEM BIÇAKÇI	
15	Course Lecturers:		
16	Contact information of the Course Coordinator:	Fen-Edebiyat Fakültesi, Biyoloji Bölümü, Görükle Kampüsü, 16059 Bursa 0.224.2941789/e-posta: abicakci@uludag.edu.tr	
17	Website:		
18	Objective of the Course:	The aim of the course is to teach the recognition of some trees of our country in the winter with the help of habitus (general appearance), body shell, shoot and bud.	
19	Contribution of the Course to Professional Development:		
20	Learning Outcomes:		
		1	To understand the deciduous trees and be able to comprehend how leaves are laid
		2	To grasp buds, shoot types
		3	Be able to grasp leaf (stalk) trace traits
		4	To grasp branch types and habitats seen in trees
		5	To understand body Shell and lenticel properties
		6	To recognize shoots, buds, body shells and winter fruits of some trees that are common in the forests of our country and grown as ornamental plants in parks and gardens
		7	To be able to recognize trees in winter by using identification keys
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		10	
21	Course Content:		
		<b>Course Content:</b>	
Week	Theoretical	Practice	
1	Winter conditions of some trees which are common in our country forests and which are grown as ornamental plants in parks-gardens	Examination on different deciduous trees of the campus site and taking shoot samples for later evaluation	

2	Habitat of trees (general appearance), Falling leaves, Leaf (stalk) trace, vascular bundle trace	Examination on different deciduous trees of the campus site and taking shoot samples for later evaluation		
3	Buds, Types and kinds of buds, Bud arrangement, bud scales	Examination on different deciduous trees of the campus site and taking shoot samples for later evaluation		
4	Shoot; Shoot structure and types	Examination on different deciduous trees of the campus site and taking shoot samples for later evaluation		
5	Body shell; Structure and color. Lenticels	Examination on different deciduous trees of the campus site and taking shoot samples for later evaluation		
6	Diagnosis of Acer, Fraxinus, Aesculus, Prunus species according to winter condition using crust, shoot, bud characteristics and diagnostic keys.	Examination on different deciduous trees of the campus site and taking shoot samples for later evaluation		
7	Diagnosis of Populus, Alnus, Ulmus, Betula species according to winter condition using crust, shoot, bud characteristics and diagnostic keys.	Examination on different deciduous trees of the campus site and taking shoot samples for later evaluation		
8	Diagnosis of Salix, Platanus, Liriodendron, Corylus species according to winter condition using crust, shoot, bud characteristics and diagnostic keys.	Assessment of shoots taken from different deciduous trees from the campus area		
9	Diagnosis of Fagus, Morus, Carpinus, Cornus species according to winter condition using crust, shoot, bud characteristics and diagnostic keys.	Assessment of shoots taken from different deciduous trees from the campus area		
10	Diagnosis of Liquidambar, Celtis, Quercus, species according to winter condition using crust, shoot, bud characteristics and diagnostic keys.	Assessment of shoots taken from different deciduous trees from the campus area		
Activites		Number	Duration (hour)	Total Work Load (hour)
Theoretical	Species according to winter condition using crust, shoot, bud characteristics and	from the campus area	2.00	28.00
Practicals/Labs		14	2.00	28.00
Self-study	Diagnosis of Alnus, Albizzia, Robinia, species according to winter condition using crust, shoot, bud characteristics and diagnostic keys.	Assessment of shoots taken from different deciduous trees from the campus area	2.00	28.00
Homeworks		2	15.00	30.00
Projects	characteristics and diagnostic keys.	0	0.00	0.00
Field Studies		6	5.00	30.00
Midterm Exams	Diagnosis of species according to winter condition using crust, shoot, bud characteristics and	from the campus area	0.00	0.00
Others		0	0.00	0.00
14	Sophora, Catalpa, Castanea, Paulownia species according to winter condition using crust, shoot, bud characteristics and diagnostic keys.	Assessment of shoots taken from different deciduous trees from the campus area	36.00	36.00
Total Work Load				180.00
Total work load/ 30 hr				6.00
ECTS Credit of the Course				6.00
	Materials:	Tanınması. Ormancılık Eğitim ve Kültür Vakfı Yayın No:5		
23	Assesment			
TERM LEARNING ACTIVITIES		NUMBE R	WEIGHT	
Midterm Exam		0	0.00	
Quiz		0	0.00	
Home work-project		0	0.00	
Final Exam		1	100.00	
Total		1	100.00	
Contribution of Term (Year) Learning Activities to Success Grade		0.00		
Contribution of Final Exam to Success Grade		100.00		

Total									100.00								
Measurement and Evaluation Techniques Used in the Course																	
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	3	0	0	0	0	3	2	0	3	0	0	0	0	0	0	0	
ÖK2	3	0	0	0	0	3	2	0	3	0	0	0	0	0	0	0	
ÖK3	3	0	0	0	0	3	2	0	3	0	0	0	0	0	0	0	
ÖK4	3	0	0	0	0	3	2	0	3	0	0	0	0	0	0	0	
ÖK5	3	0	0	0	0	3	2	0	3	0	0	0	0	0	0	0	
ÖK6	4	2	3	0	2	3	2	0	4	0	0	0	0	0	0	0	
ÖK7	3	2	2	0	2	2	2	0	2	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				