	PLANT MORPH	HOLO	GY AND ANATOMY LAB								
1	Course Title:	PLANT I	MORPHOLOGY AND ANATOMY LAB								
2	Course Code:	BYL205	5								
3	Type of Course:	Compuls	Compulsory								
4	Level of Course:	First Cyc	First Cycle								
5	Year of Study:	2	2								
6	Semester:	3	3								
7	ECTS Credits Allocated:	2.00	2.00								
8	Theoretical (hour/week):	0.00									
9	Practice (hour/week):	0.00									
10	Laboratory (hour/week):	2									
11	Prerequisites:	None									
12	Language:	Turkish									
13	Mode of Delivery:	Face to	face								
14	Course Coordinator:	Prof. Dr.	ADEM BIÇAKÇI								
15	Course Lecturers:	Prof. Dr. SEVCAN ÇELENK Doç. Dr. AYCAN TOSUNOĞLU									
16	Contact information of the Course Coordinator:	Bursa Uludağ Üniversitesi Fen-Edebiyat Fakültesi Biyoloji Bölümü Görükle Kampüsü, Nilüfer/BURSA 16059 e-posta: abicakci@uludag.edu.tr Telefon: 0 224 294 17 89 Bursa Uludag University Faculty of Arts and Science Department of Biology Gorukle Campus, Nilufer/BURSA 16059 e-mail: abicakci@uludag.edu.tr Phone: 0 224 294 17 89									
17	Website:										
18	Objective of the Course:	To give a basic information about cell structure, Cell structure and features of plant tissues, Internal structure of plant organs, External structure of plant organs, Differentiation and metamorphoses in plant organs									
19	Contribution of the Course to Professional Development:	Learns the basic information about botany.									
20	Learning Outcomes:										
	•	1	Explains basic information about wall structure of the plant cell								
		2	Explains classification of flowering plant tissues and their characters.								
		3	Explains basic information and concepts about plant tissues								
		4	Investigates anatomical structure of plant organs								
		5	Applies how to examine and identificate microscopic and macroscopic structures								
		6	Explains and compare metamorphoses in plant organs								
		7	Explains plant reproductive organs (flower, fruit, seed)								
		8	Investigates plant organ morphologies in different plants with comparing each other								
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21	Course Content:																				
Course Content:																					
Week	Theo	Theoretical									Practice										
1									Ce	Cell wall (cuticle and cuticle layer, cystolith)											
2									Su Co	Supporting tissue types (Angular Collenchyma, Lamellar Collenchyma, Sclereids, Sclerenchyma fibres)											
3											Bark and lenticels										
4											Multi-layer epidermis and trichomes										
5											Secretory tissue (Oil glands, secretory duct, segmented and non-segmented lacticifers)										
6									İnte	Intercellular spaces, leaf anatomy and stomatas											
7									Ste	em and	d vascu	ılar tiss	ue								
8									Va	scular	tissues	s in Mo	nocot a	nd Dic	ot stem	l					
9									Ste	em wo	od stru	cture a	nd trans	smissio	on						
10									Re	peatin	g cour	ses and	l midter	m exa	m						
11										ot (Pri	mary a	nd sec	ondary	structu	re)						
12										Leaf, Leaf shape and leaf arrangements in flowering plants.											
13									Flo	Flower, inflorescence and fruit in Flowering Plants											
14	Metamorphosis of root, stem and leaf in flowering plants													ants							
Activites							1	Numb	er		Dura	Duration (hour)			Total Work Load (hour)						
								: Iwe				0.00	0.00 0.00								
Practicals/Labs								1	4			2.00	2.00 28.00								
Self Study and preperation 1								22	,00			1.00		6.00							
Homeworks							1				14.00	14.00			14.00						
Projectsork-project								18	00			0.00			0.00						
Field Studies								C)			0.00		0.00							
Mitterm exams 5								10	0.00			6.00			6.00						
Others								C	0					0.00							
Einal Exams									<u></u>			6.00		6.00							
Total Work Load														66.00							
18tal work load/ 30 hr							100	J.00			2.00										
ECTS Credit of the Course 2.00																					
24	ECT	rs /	WO	RK L	OAD	TAB	LE														
25	25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																				
	F	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16				
ÖK1	3	3	0	0	2	0	1	1	0	1	1	1	1	0	0	0	0				
ÖK2	3	3	0	0	2	0	0	1	0	1	0	2	1	0	0	0	0				
ÖK3	3	3	0	0	2	0	1	1	0	1	0	2	1	0	0	0	0				
ÖK4	3	3	0	0	2	0	2	1	0	1	0	2	1	0	0	0	0				
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ÖK5	3	0	0	2	0	0	1	0	1	4	3	1	0	0	0	0
ÖK6	3	0	0	2	0	0	1	0	1	0	1	1	0	0	0	0
ÖK7	3	0	0	2	0	0	1	0	1	0	1	1	0	0	0	0
ÖK8	3	0	0	2	0	0	1	0	1	1	1	1	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:			2 low		3	3 Medium		4 High			5 Very High					