	PLANT BIOCHEMISTRY										
1	Course Title:	PLANT E	LANT BIOCHEMISTRY								
2	Course Code:	BAH210	3								
3	Type of Course:	Compuls	sory								
4	Level of Course:	First Cyc	cle								
5	Year of Study:	2									
6	Semester:	3									
7	ECTS Credits Allocated:	3.00									
8	Theoretical (hour/week):	2.00									
9	Practice (hour/week):	0.00									
10	Laboratory (hour/week):	0									
11	Prerequisites:	none									
12	Language:	Turkish									
13	Mode of Delivery:	Face to f	face								
14	Course Coordinator:	Prof. Dr.	AHMET İPEK								
15	Course Lecturers:		Meryem İpek Asuman Cansev								
16	Contact information of the Course Coordinator:	maipek@ 224-294	Duludag.edu.tr 1484 ludağ Üniversitesi Ziraat Fakültesi Bahçe Bitkileri Bölümü								
17	Website:										
18	Objective of the Course:	biochem descripti in bioche	rpose of this course is to give students basic plant mistry and metabolism. In the context of this course, tion of biochemistry, structure of plant cell end its importance nemistry, and metabolism of photosynthesis, respiration, sis of amino acids, enzyme, carbohydrate, lipids and protein cussed.								
19	Contribution of the Course to Professional Development:	Learn the chemical basis and biochemical formation processes of metabolic events in plants.									
20	Learning Outcomes:										
		1	Learn the topics in Plant biochemistry								
		2	Recognize plant cell structure and its organelles.								
		3	Learn amino acids, genetic codes and protein structure								
		4	Learn protein metabolism in plants								
		5	Learn plant enzymes and their metabolisms								
		6	Learn carbohydrates and their metabolism in plants								
		7	Learn lipids and their metabolism in plants								
		8	Learn photosynthesis and respiration in plants								
		9	Learn nitrogen metabolism and fixation in plants								
		10	Learn secondary metabolites in plants								
21	21 Course Content:										
\\\/ - \	The anatical	Co	ourse Content:								
	Theoretical		Practice								
1	Introduction to biochemistry										
2	Plant cell										
3	Cytoplasm										

4	Nuc	leus																	
5	Amiı	Amino acids, genetic codes Protein structure																	
6		Protein synthesis																	
7	Description, structure and regulation of enzymes and enzyme kinetics																		
8	Repeating courses and midterm exam																		
9	Structure of lipids and their metabolism																		
10	Structure of carbohydrates and their metabolism																		
11	Electron transfer system																		
12	Phot	Photosynthesis																	
13	Nitro	ogen	metal	oolism	and r	nitroge	n fixat	ion											
14	Sec	onda	ry me	tabolit	es														
22	Materials:								Bit Bit	Biyokimya (D. Hames ve N. Hooper) 2005. Çevirenler Y. Tutar, H. Geçkil ve M. Karataş. Nobel Yayın Dağıtım. 438 s. Biochemistry (D. Voet ve J.G. Voet) 1995. John Wiley & Sons. 1361 s. Bitki Fizyolojisi (L. Taiz ve E. Zeiger) 2008. Çeviren İ. Türkan. Palme Yayınları. 690 s.									
Activit	Accivites									Numb	er		Dura	ition (, ,	Total Work Load (hour)			
Theore	tical						0		0.0	14			2.00	2.00			28.00		
Practic	als/L	abs								0			0.00	0.00			0.00		
Self str Final F	udy a	nd pi	ерега	tion			1		60	13			2.00	2.00					
Homew										0				0.00					
Project	ts	of T	erm (/ear) l	l earn	ina Act	tivities	to	40	00			0.00			0.00			
	cts ribution of Term (Year) Learning Activities to Studies									0			0.00	0.00					
Midtens	Mution OF Final Exam to Success Grade									60100				24.00					
Others										0						0.00			
Final E	Exams									1 Midterm and final exame				48.00			48.00		
	l Work Load															150.00			
	WECTS://3/WORK LOAD TABLE																4.20		
ECTS (Credit of the Course															3.00			
25			(CON	TRIE	UTIC	N OI			IING LIFIC			S TO I	PROC	SRAM	ME			
		PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16		
ÖK1		5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
ÖK2		5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
ÖK3		5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
ÖK4		5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

ÖK5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK6	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK7	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK8	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK9	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK10	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:			2 low			3 Medium			4 High				5 Very High			