

PLANT PHYSIOLOGY

1	Course Title:	PLANT PHYSIOLOGY
2	Course Code:	BYL3003
3	Type of Course:	Compulsory
4	Level of Course:	First Cycle
5	Year of Study:	3
6	Semester:	5
7	ECTS Credits Allocated:	4.00
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 face
14	Course Coordinator:	Prof. Dr. ŞULE ÖZTÜRK
15	Course Lecturers:	Prof. Dr. Şule ÖZTÜRK Prof. Dr. Gürçan GÜLERYÜZ Prof. Dr. Hülya ARSLAN
16	Contact information of the Course Coordinator:	Uludağ Üniversitesi Fen-Edebiyat Fakültesi Biyoloji Bölümü Görükle Kampüsü, Nilüfer/BURSA 16059 e-posta: ozturks@uludag.edu.tr Telefon: 0 (224) 294 1853 Uludag University Faculty of Arts and Science Department of Biology Gorukle Campus, Nilufer/BURSA 16059 e-mail: ozturks@uludag.edu.tr Phone: 0 (224) 294 1853
17	Website:	
18	Objective of the Course:	The aim is to give the students increased knowledge of metabolism, physiology and structure of plants together with a better understanding of regulation of growth and development and influence of environment.
19	Contribution of the Course to Professional Development:	
20	Learning Outcomes:	
	1	Learning the structure and functions of plant cell organelles
	2	Understanding the importance of enzymes responsible reactions that occur in plant cells
	3	To understand the importance of water in the life of the plant
	4	To understand the role of plant nutrients
	5	To understand the importance of photosynthesis for plants and other living
	6	Explain the importance of plant of sulfur and nitrogen cycle in nature
	7	Learning of the respiratory mechanism in plants
	8	To understand the growth and growth movements of plants
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21	Course Content:			
	Course Content:			
Week	Theoretical	Practice		
1	The structure of plant cells, enzymes, and functions			
2	The relationship between the water and the cell			
3	Uptake and transport of water			
4	Transpiration			
5	Plant nutrients			
6	Nutrient uptake and transport			
7	Photosynthesis			
8	Transport of photosynthesis products			
9	Nitrogen and sulfur assimilation			
10	Respiratory			
11	Growth			
12	Plant growth movements			
13	Plant hormones and their functions			
14	Plant stress physiology			
Activites		Number	Duration (hour)	Total Work Load (hour)
Theoretical		14	2.00	28.00
Practicals/Labs		0	0.00	0.00
Self study and preperation		14	2.00	28.00
Homeworks		0	0.00	0.00
Projects		1	6.00	6.00
Field Studies		0	0.00	0.00
Midterm exams		1	2.00	2.00
Others		0	0.00	0.00
Final Assessment		1	2.00	2.00
Total Work Load				120.00
Total work load/ 30 hr		1	40.00	4.00
Midterm Exam				
ECTS Credit of the Course				4.00
Home work-project		0	0.00	
Final Exam		1	60.00	
Total		2	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			

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	5	4	5	0	3	3	2	1	2	2	2	4	0	0	0	0
ÖK2	5	0	2	3	2	4	4	0	0	4	2	0	0	0	0	0
ÖK3	5	0	2	2	2	4	3	2	0	4	2	2	0	0	0	0
ÖK4	5	2	2	3	0	4	5	0	2	5	3	0	0	0	0	0
ÖK5	3	0	2	4	2	5	5	2	3	5	3	2	0	0	0	0
ÖK6	3	2	3	4	2	5	3	2	4	5	4	3	0	0	0	0
ÖK7	5	2	2	4	2	5	5	2	3	5	2	4	0	0	0	0
ÖK8	5	0	0	4	2	5	4	3	5	4	3	4	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	1 very low			2 low			3 Medium			4 High			5 Very High			