BOTANY

1	Course Title:	BOTANY	
2	Course Code:	BYL1183	
3	Type of Course:	Compulsory	
4	Level of Course:	First Cycle	
5	Year of Study:	1	
6	Semester:	1	
7	ECTS Credits Allocated:	5.00	
8	Theoretical (hour/week):	2.00	
9	Practice (hour/week):	2.00	
10	Laboratory (hour/week):	0	
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. Şule Öztürk	
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:	Aim of the course is, to have a knowledge about plants with bringing the basic concepts of Botany for students	
19	Contribution of the Course to Professional Development:		
20	Learning Outcomes:		
		1	To comprehend the plant kingdom and botanical nomenclature
		2	To compare plant and animal cell
		3	To recognize the cell
		4	To understand the roles of organic and inorganic structures in the cell
		5	To understand the structure and missions of organelles in the cell
		6	To understand the grouping and functions of plant tissues
		7	To understand the vegetative and generative organs in plants and their functions
		8	To have a knowledge about plants
		9	
		10	
21	Course Content:		

Course Content:

Week	Theoretical	Practice
1	Classification and nomenclature of plants	Introduction and usage of microscope
2	Biochemical compounds in the cell – carboydrates, lipids	Introduction and usage of microscope

3	Biochemical compounds in the cell – proteins, nucleic acids, enzymes and vitamins	Free state cell
4	The cell, cell wall, organelles of the cell - endoplasmic reticulum, ribosomes, Golgi complex, lysosomes, mitochondria, plastids	Free state cell
5	Nucleus, chromosomes, cell division (amitoz, mitosis, meiosis)	Cells in tissue
6	Ergastic agents, cytoplasmic movements, the cell wall (formation of layers, chemical composition, chemical differentiation), plazmodesma, passages	Cells in tissue
7	Plant Tissues: Meristematic tissue, the basic tissue (parenchyma)	Plastids
8	Plant Tissues; protective tissue, support tissue	Plastids
9	Plant Tissues; Vascular tissue, secretory tissue	Starches
10	Vegetative organs; Root (morphology, anatomy, metamorphosis)	Starches
11	Vegetative organs, the body (morphology, anatomy, metamorphosis)	Chrystals
12	Vegetative organs; leaf (morphology, anatomy, metamorphosis)	Chrystals
13	Generative organs; Flower (formulas, diagrams, inflorescences, pollen and embryo sac formation)	Trichomes and support tissue
14	Pollination and fertilization, fruit and seed formation, fruit types	Trichomes and support tissue

22	Textbooks, References and/or Other Materials:	Y. AKMAN, K. GÜNEY, Botanik, Palme Yayın, 2005. S. YENTÜR, Bitki Anatomisi, İstanbul Üniv. Fen-Ed. Fak. Basımevi, 1984. Ö. SEÇMEN, Y. GEMİCİ, E. LEBLEBİCİ, G. GÖRK, L. BEKAT, Tohumlu Bitkiler Sistematiği, Ege Üniv. Basımevi, 1989. H. MALYER, Z. GENÇ, Botanik Uygulamaları Morfolojisi, Uludağ Üniv. Basımevi, 1994.
23	Assesment	

TERM LEARNING ACTIVITIES	**NUMBER**	**WEIGHT**
Midterm Exam	1	40.00
Quiz	0	0.00
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**

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	14	2.00	28.00
Self study and preperation	14	1.00	14.00
Homeworks	14	1.00	14.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	26.00	26.00
Others	0	0.00	0.00
Final Exams	1	40.00	40.00
Total Work Load			176.00
Total work load/ 30 hr			5.00
ECTS Credit of the Course			5.00

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	5	4	4	4	4	4	4	4	0	3	3	3	0	0	0	0
ÖK2	5	2	0	2	4	3	4	0	0	3	3	0	0	0	0	0
ÖK3	5	3	3	3	4	4	4	0	0	3	0	0	0	0	0	0
ÖK4	5	0	3	3	4	4	4	0	0	3	3	0	0	0	0	0
ÖK5	5	3	3	3	4	4	4	0	0	3	0	0	0	0	0	0
ÖK6	5	3	3	3	4	4	4	0	0	3	0	0	0	0	0	0
ÖK7	5	3	3	3	4	4	4	0	0	3	0	0	0	0	0	0
ÖK8	5	4	4	4	4	4	4	5	3	3	3	3	0	0	0	0

LO: Learning Objectives PQ: Program Qualifications

Contribution Level:	**1 very low**	**2 low**	**3 Medium**	**4 High**	**5 Very High**