GENERAL BOTANY									
1	Course Title:	GENER	AL BOTANY						
2	Course Code:	OTPZ103							
3	Type of Course:	Compuls	sory						
4	Level of Course:	Short Cycle							
5	Year of Study:	1							
6	Semester:	1							
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:	-							
12	Language:	Turkish							
13	Mode of Delivery:	Face to face							
14	Course Coordinator:	Prof. Dr.	Ruziye Daşkın						
15	Course Lecturers:								
16	Contact information of the Course Coordinator:	Doç. Dr. Ruziye DAŞKIN E-mail:ruziyeg@uludag.edu.tr Telefon: +90 (224) 2941878 Adres: Uludağ Üniversitesi, Fen – Edebiyat Fakültesi, Biyoloji Bölümü, Görükle Kampüsü, 16059 Nilüfer/Bursa.							
17	Website:								
18	Objective of the Course:	Provide an understanding of basic concepts of plant cell, chemical composition of the cell, cell wall, membrane structure and the relationship between the organelles, cytoskeleton and cell movement, the plasma membrane structure and transport of small molecules, an understanding of the cell cycle, differences of plant tissues between groups of plants.							
19	Contribution of the Course to Professional Development:								
20	Learning Outcomes:								
		1	To learn the important technical terms related to the Botanical.						
		2	To understand the organic and inorganic structure of cell.						
		3	To understand the structural and functional properties of the cell.						
		4	To understand the function of life events in plants and relationships with other living organism.						
		5	To understand the events of growth and development in plants.						
		6	To know the meaning of the concepts of heredity and evolution in plants.						
		7	To establish relationships between forest ecosystem and functions of plants.						
		8	Ability to use in the field of forestry the basic information obtained from botany course.						
		9							
		10							
21	Course Content:								

	Course Content:										
Week	Theoretical	Practice									
1	Organic molecules: The structure, function and types of carbohydrates (monosaccharides, disaccharides, polysaccharides). The structure, function and types of Lipids: Phospholipids, glycolipids, Cholesterol and steroids.										
2	Proteins as control and structural elements in biological systems. Amino acids the building blocks of proteins. Structure of an amino acid. Formation of a peptide bond between two amino acids. The primary, secondary, tertiary and quaternary structure in the organization of proteins.										
3	Structural proteins function in the cell membrane, Control functions of proteins acting as enzymes and hormones, The structure, function and types of vitamins.										
4	Nucleic acids: The structure, main functions and types of nucleotides. Structure of two types of nucleotide: deoxyribonucleic acid (DNA), ribonucleic acid (RNA). Types of RNA, details of RNA and its role in protein synthesis.										
5	Cellular Organization: Cell theory. Prokaryotic and Eukaryotic cells. Comparison of plant and animal cells. Cell Size and Shape. The Cell										
Activit		Number	Duration (hour)	Total Work Load (hour)							
Theore	ircal. Active and Passive Transport: Types of	14	2.00	28.00							
Practica	als/Labs	0	0.00	0.00							
Self stu	Masmolise, Bepasmolise and turgor in plant	14	2.00	28.00							
Homew		0	0.00	0.00							
	IGHA CVARANOS	0	0.00	0.00							
Field St	The cytoplasm known as the material tudies	0	0.00	0.00							
	membrane) and the nuclear envelope. I Fibrous proteins known as cytoskeleton in the	1	14.00	14.00							
Others	Fibrous proteins known as cytoskeleton in the	0	0.00	0.00							
	குழைating courses and midterm exam	1	20.00	20.00							
	/ork Load	'	20.00	104.00							
	rstructures, and central location of the option of the opt			3.00							
	<u> </u>										
EC13 (	proosomes and nucleus.			3.00							
10	Cellular Organization: Plastids:Structure and function of the chloroplast, Leucoplasts and Chromoplasts.										
11	The Cell Cycle and Cell Division: Mitosis and Meiosis										
12	Plants tissue: Primary and secondary growth of meristematic tissue										
13	Plants tissue: Dermal tissue										
14	Plants tissue: Ground tissue, Vascular tissue.										

22	Textbooks, References and/or Other Materials:								Yıldırım Akman: Introduction to Plant Biology (Botany), Palme Publications, Ankara, 1996. Prof. Suna Bozcuk: General Botany, Hatipoğlu Printing and Publishing Industry Co. Ltd., Publication No. 82, Ankara, 2009.								
23	Assesm	Assesment															
					N F	NUMBI	E WI	WEIGHT									
Midter	m Exam					1		40	40.00								
Quiz					C	)	0.0	0.00									
Home	work-pro	ject				C	)	0.0	0.00								
Final Exam 1						60	60.00										
Total 2						2	10	100.00									
Contribution of Term (Year) Learning Activitie Success Grade					tivities	s to	40.00										
Contribution of Final Exam to Success Grade								60	60.00								
Total								10	100.00								
24 25	ECTS									RNING OUTCOMES TO PROGRAMME UALIFICATIONS							
	PQ <sup>,</sup>	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16	
ÖK1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ÖK2	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ÖK3	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ÖK4	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ÖK5	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ÖK6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ÖK7	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

LO: Learning Objectives PQ: Program Qualifications

4 High

3 Medium

5 Very High

Contrib ution Level:

1 very low

2 low