

PLANT GROWING

1	Course Title:	PLANT GROWING
2	Course Code:	TRMZ105
3	Type of Course:	Compulsory
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:	Öğr.Gör.Dr. ARZU MOR
15	Course Lecturers:	Öğr.Gör.Dr.Yılmaz DORUK
16	Contact information of the Course Coordinator:	yzdoruk@uludag.edu.tr, 02242942374, U.Ü.Teknik Bilimler Meslek Yüksekokulu B Blok-Görükle Kampüsü/Bursa
17	Website:	
18	Objective of the Course:	The aim of this course is to introduce vegetable, fruit and field crops species to the students, to give the ability of orchard establishment and management by learning the fundamentals of Horticulture and field crops.
19	Contribution of the Course to Professional Development:	
20	Learning Outcomes:	
	1	To learn the definition and importance of plant physiology and plant morphology
	2	Know vertical growth of roots, formation of root branch and root systems, Identify plant cell,organs and know their role Growth of trees; Uptake and transportation of water; Transpiration; Carbohydrates; Respiration ,Photosynthesis and Tropizm.Know effects of plant hormones
	3	The ability to understand basis of propagation techniques and application to all species
	4	Acquiring skills about problem solving in horticulture and field crops
	5	Being able to apply the cultural practices in orchards and fields
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21	Course Content:	
	Course Content:	
Week	Theoretical	Practice

1	Description, importance and classification of fruit, vegetable. Morphological and biological features of the horticultural plants organs such as root, stem, leaf, flower, fruit			
2	The definition and importance of plant physiology and plan morphology. The plant tissues and organs. The plant vascular system and uptaking and transporting water and plant nutrient elements and effect of factors on them. Rrespiration, tranpiration and photosyhtesis events in the plant and effect of factors on them.			
3	Morphological properties, growing requirements, growing techniques and practices. In addition harvesting and storage of cultivated vegetables.(Tomato, pepper,eggplant and muskmelon growing)			
4	Morphological properties, growing requirements, growing techniques and practices. In addition harvesting and storage of cultivated vegetables. (Watermelon,cucumber,pumpkin-squash, and okra growing)			
5	The growing techniques of industrial plants such as cotton and tobacco			
6	The production methods, biology of reproduction, ecological demands, morphologic and physiological characteristics of some (apple,pear) and nuts			
Activites		Number	Duration (hour)	Total Work Load (hour)
Theoretical	characteristics, growing technics of Legumes (bean, faba bean and pea)	14	2.00	28.00
Practicals/Labs		0	0.00	0.00
Self study and preparation				
9	Basic morphological and agronomical	14	3.00	42.00
Homeworks		0	0.00	0.00
Projects	cultivation (Clover and vetch)	0	0.00	0.00
10				
Field Studies		0	0.00	0.00
Midterm Exams	characteristics of cereals and their cultivation. (Wheat)	2	8.00	16.00
Others		0	0.00	0.00
Final Exam	Basic morphological and agronomical	1	10.00	10.00
Total Work Load				96.00
Total work load/ 30 hr				
12	Mid-term exam and the production methods,			3.20
ECTS Credit of the Course				3.00
	morphologic and physiological characteristics of stone (peach,cherry) and berry (strawberry) fruits both of which are involved in temperate climate fruit species.			
13	Subtropical fruit growing.(Olive growing)			
14	Basic morphological and agronomical characteristics of oil plants and their cultivation.(canola and sunflower)			
22	Textbooks, References and/or Other Materials:	1. Algan.,N. 2002.Tarla Bitkileri (Endüstri Bitkileri)E:Ü.Ziraat Fakültesi Bornova-İZMİR, 2002. 2.İncekara,F.1965.Nişasta- Şeker Bitkileri ve Islahı.E.Ü.Ziraat Fakültesi Yayın No:101. Bornova –İzmir. 3.İncekara,F.1972.Yağ Bitkileri ve Islahı. E.Ü. Ziraat Fakültesi Yayın No:83 Bornova-İZMİR		

23	Assesment	
TERM LEARNING ACTIVITIES	NUMBE R	WEIGHT
Midterm Exam	2	50.00
Quiz	0	0.00
Home work-project	0	0.00
Final Exam	1	50.00
Total	3	100.00
Contribution of Term (Year) Learning Activities to Success Grade		50.00
Contribution of Final Exam to Success Grade		50.00
Total		100.00
Measurement and Evaluation Techniques Used in the Course		

24	ECTS / WORK LOAD TABLE
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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	3	0	4	2	0	0	0	0	0	0	0	0	0	0	0
ÖK2	5	3	0	4	2	0	0	0	0	0	0	0	0	0	0	0
ÖK3	5	3	0	4	2	0	0	0	0	0	0	0	0	0	0	0
ÖK4	5	3	0	4	2	0	0	0	0	0	0	0	0	0	0	0
ÖK5	5	3	0	4	2	0	0	0	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	1 very low		2 low		3 Medium		4 High		5 Very High							