



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Fruit Culture and Viniculture							
Course Code		ORT202		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	4	Workload	100 (<i>Hours</i>)	Theory	2	Practice	2	Laboratory	0
Objectives of the Course		<p>The purpose of this course is to transfer the necessary information practically on all the subjects related to fruit growing (general fruit growing and fruit growing technique) and to train individuals who can find logical solutions to the problems on these subjects.</p> <p>Our aim is to introduce vine trees and grape growing techniques; to teach biological and technical specialities; to enable them to gain the ability to learn theoretical and practical knowledge for the realisation of propagation, the growing techniques and cultural application.</p>							
Course Content		<p>This course contents; the historical development of fruit growing, its economical importance and classification of fruit species; morphological and biological features of the fruit trees organs such as root, stem, leaf, flower, fruit; climatic and soil requirements of fruit trees; generative and vegetative propagation methods; nursery trees growing, orchard establishment; cultural practices (soil cultivation, irrigation, fertilizing, pruning, controlling of diseases and pests and harvesting).</p> <p>Developing and distribution of vine trees, history of grape growing, situation of grape growing in Turkey and the world, classification of grapevine, tissueas and parts of grape, ecological limitations, and their effects on site selection, ways of grape processing, propagation, pruning and training, cultural practices</p>							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Demonstration, Discussion, Case Study, Individual Study, Problem Solving					
Name of Lecturer(s)		Ins. Zafer AKTÜRK							

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	70

Recommended or Required Reading

1	Soylu A. ve Türk R. 2002 Genel Meyvecilik ISBN: 975-06-0096-7
2	Çelik, H., Ağaoğlu, Y.S., Fidan, Y., Maraslı, B., Söylemezoğlu, G. 1998 Genel Bağcılık Sun Fidan A.Ş. Mesleki Kitaplar Serisi
3	Çelik, S 1998 Bağcılık Anadolu Matbaa Ambalaj San. Ve Tic. Ltd.Şti.

Week	Weekly Detailed Course Contents	
1	Theoretical	The beginning and stages of fruit growing in the world. Fruit production in the world and our country. Origins of cultivated important fruit species. Importance of fruit growing in the country economy. The classification of fruit species
	Practice	land applications
2	Theoretical	The morphological and biological features of fruit trees: The structure and functions of root, stem, leaf, flower. Pollination and fertilization in fruit trees.
	Practice	land applications
3	Theoretical	The morphological and biological features of fruit trees: Formation of seed and fruit. The ecological requirements of fruit trees: Climatic requirements, soil requirements.
	Practice	land applications
4	Theoretical	Propagation techniques of fruit trees: Sexual (generative) propagation technique. Vegetative propagation techniques. Propagation by grafting, cutting, layering and other vegetative techniques.
	Practice	land applications
5	Theoretical	Nursery tree growing
	Practice	land applications
6	Theoretical	Orchard establishment and management
	Practice	land applications
7	Theoretical	Cultural practices in orchards: Soil cultivation, irrigation, fertilization, pruning, controlling of diseases and pests and harvesting.
	Practice	land applications



8	Theoretical	land applications
9	Theoretical	The situation of viticulture according to the regions of Turkey and specialities. Classification of grapevines and their interrelationship, tissues and parts of grapevine, their importance in terms of growing.
	Practice	land applications
10	Theoretical	Underground parts, root morphology and anatomy and physiological properties of Grapevine. Aboveground parts, trunk, branches, and their morphologies, bud burst, bud types, anatomy and physiology of buds,
	Practice	land applications
11	Theoretical	Summer shoot and its parts, shoot tip and leaves, types and importance in viticulture. Grape, bunch and flower types, biology of pollination, bunch and berry types, seed, physiological properties of flower and bunch.
	Practice	land applications
12	Theoretical	Tendrils, secondary shoots, pearls. Ecological expectations of grapevine, phenological growth stages of vine, temperature, Heliothermi, rainfall and humidity
	Practice	land applications
13	Theoretical	Wind, geographical condition, altitude, direction and water masses, frost, its factors and measures. Effect of soil types, stony and gravel soils, clayey soils, loamy soils, marn soils
	Practice	land applications
14	Theoretical	Effect of soil types, calcareous soils, sandy soils, humus soils General processing ways of grape, characteristics of table, dried and wine varieties.
	Practice	land applications
15	Theoretical	General principles of pruning and important differences of pruning. Introduction to training systems, their properties, trellis material and construction, general principles of cultural practices.
	Practice	land applications

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Lecture - Practice	14	0	2	28
Project	13	1	0	13
Studio Work	3	3	0	9
Midterm Examination	1	8	1	9
Final Examination	1	12	1	13
Total Workload (Hours)				100
[Total Workload (Hours) / 25*] = ECTS				4

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	To be able to comprehend the cultural history of fruit growing in the world and our country, the general situation, problems and economic importance of fruit growing,
2	To be able to classify fruit species according to several features (climatic requirements, fruit structure and botanical classification),
3	To be able to list the morphological and biological features (important organs) of fruit trees,
4	To be able to identify the ecological (climatic and soil) requirements of fruit trees,
5	To be able to list the propagation methods of fruit trees,
6	To be able to apply his knowledge to grow nursery trees,
7	To be able to manage an orchard establishment,
8	To be able to explain the cultural practices in orchards,
9	To be able to develop his skills about harvest, storage and marketing of fruit,
10	To be able to develop and distribute vine trees and grape growing; the classification of grapevines and their relationships.
11	To be able to evaluate the situation, the technical and economical aspects of viticulture in Turkey and in the World,
12	To be able to identify tissues and parts of grapevines, ecological expectations and site selection,
13	To be able to evaluate the processes of grape, characteristics of table, dried, wine varieties,
14	To be able to comprehend the propagation, pruning and training and the cultural practices of vine growing

Programme Outcomes (Organic Agriculture)

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Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

	L1	L2	L4	L7	L8	L9	L10	L11	L12	L13	L14
P1	5										
P8		5	5	4	4	5	5		5	5	4
P9	5	5	4				5	4	4		

