



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Horticultural Crops Growing							
Course Code		BB201		Course Level		First Cycle (Bachelor's Degree)			
ECTS Credit	4	Workload	100 (<i>Hours</i>)	Theory	2	Practice	2	Laboratory	0
Objectives of the Course		The aim of this course is to introduce to students fruit, vine, vegetable and ornamental plant species and to provide them to set orchard or vegetable garden by teaching basic information about growing techniques.							
Course Content		The importance of horticulture, historical development, description of horticulture. The ecological requirements and propagation techniques and growing techniques of horticulture.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Demonstration, Discussion, Individual Study					
Name of Lecturer(s)		Lec. Burak Erdem ALGÜL, Lec. Gülsüm KARAKAYA, Lec. Mustafa ÇELİK, Prof. Halil Güner SEFEROĞLU, Prof. Hudai YILMAZ, Prof. Zeynel DALKILIÇ							

Assessment Methods and Criteria

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

Recommended or Required Reading

1	1. Meyve Yetiştirme İlkeleri (Teksir). Prof. Dr. Ruhnaz Gülcan. Ege Üniversitesi Ziraat Fakültesi Bahçe Bitkileri Bölümü, İzmir.
2	2. Genel Bahçe Bitkileri (Teksir). Prof. Dr. Rahmi Özçağır, Prof. Dr. Ertan İtler, Prof. Dr. İsmail Karaçalı. Ege Üniversitesi Ziraat Fakültesi Bahçe Bitkileri Bölümü, İzmir.
3	3. Bahçe Bitkileri (Teksir). Prof. Dr. Fahrettin Macit, Prof. Dr. Rahmi Özçağır, Prof. Dr. Ertan İtler, Prof. Dr. İsmail Karaçalı. Ege Üniversitesi Ziraat Fakültesi Bahçe Bitkileri Bölümü, İzmir.
4	4. Genel Bahçe Bitkileri (Kitap). Prof. Dr. Y. Sabit Ağaoğlu ve ark., 1997. Ankara Üniversitesi Ziraat Fakültesi Bahçe Bitkileri Bölümü. Yayın no:4, Ankara.
5	5. Genel Meyvecilik (Kitap). Prof. Dr. Sabahattin Özbek. 1988. Çukurova Üniversitesi Ziraat Fakültesi Ders Kitabı No: 31, Adana.
6	6. Genel Meyvecilik (Kitap). Yrd. Doç. Dr. Resul Gerçekçiöğlu. 1997. Gaziosmanpaşa Üniversitesi Ziraat Fakültesi Yayınları No: 17, Tokat.
7	7. Meyve Yetiştirme İlkeleri (Kitap). Prof. Dr. Arif Soylu. Uludağ Üniversitesi Ziraat Fakültesi, Ders notları: 20, 2003, Bursa.
8	8. Bahçe Bitkileri Yetiştirme Tekniği. Prof. Dr. Nurettin Kaşka, Prof. Dr. Muhsin Yılmaz. Çukurova Üniversitesi Ziraat Fakültesi Ders Kitabı No: 52, 1987, Adana.
9	9. Ilıman İklim Meyve Türleri (kitap). Sert çekirdekli meyve türleri-Cilt I ve Yumuşak çekirdekli meyve türleri-Cilt II. Prof. Dr. Rahmi Özçağır, Prof. Dr. Ali Ünal, Doç. Dr. Elmas Özeke, Yrd. Doç. Dr. Murat İsfendiyoğlu. Ege Üniversitesi Ziraat Fakültesi Yayınları, No: 553, 2003-2004.
10	10. Ilıman İklim Meyveleri-1 (kitap). Prof. Dr. Atilla Eriş, Doç. Dr. Erdoğan Barut. Uludağ Üniversitesi Ziraat Fakültesi, Ders kitabı No: 6, 2000, Bursa.
11	11. Ilıman İklim Meyveleri-II (kitap). Prof. Dr. Arif Soylu. Uludağ Üniversitesi Ziraat Fakültesi, Ders notları No: 72, 2003, Bursa.
12	12. Westwood, N.M., Temperate-Zone Pomology Physiology and Culture, Timber Pres, Portland, Oregon, 523p, 1991.
13	13. Hartmann, T.H., Plant Propagation Principles and Practices Prentice Hall, New Jersey, USA, 770 p,1997.

Week	Weekly Detailed Course Contents	
1	Theoretical	Introduction
	Practice	Introduction
2	Theoretical	Introduction to horticultural crops
	Practice	Introduction to propagation areas
3	Theoretical	Organs, floral biology
	Practice	Introduction to propagation areas
4	Theoretical	Fertilization biology
	Practice	Grafting
5	Theoretical	Ecological requirements: climate
	Practice	Mist-propagation, cuttings



6	Theoretical	Ecological requirements: soil, topography
	Practice	Pruning
7	Theoretical	Physiology: dormancy, fruit set, periodisity, fruit drop
	Practice	Budding
8	Intermediate Exam	Mid-term
9	Theoretical	propagation: generative
	Practice	Branch and flower structures
10	Theoretical	Propagation: vegetative
	Practice	Clonal rootstock establishment, nursery tree planting
11	Theoretical	Propagation: vegetative-2
	Practice	Seed sowing in vegetable crop species
12	Theoretical	Orchard and vineyard plantation
	Practice	Machine grafting
13	Theoretical	Annual maintenance: soil preparation, irrigation, fertilization
	Practice	Vegetable seedling transplantation
14	Theoretical	Annual maintenance: pruning, disease, pest, and weed control,
	Practice	Field practice
15	Laboratory	Practical exam
16	Final Exam	Final exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	1	2	42
Lecture - Practice	14	1	2	42
Midterm Examination	1	5	1	6
Final Examination	1	9	1	10
Total Workload (Hours)				100
[Total Workload (Hours) / 25*] = ECTS				4

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	
2	
3	
4	
5	

Programme Outcomes (Agricultural Biotechnology)

1	To be able to develop skills in identifying, modeling and solving problems in agricultural biotechnology
2	To be able to synthesize life and engineering sciences for the effective resource planning of agricultural biotechnology applications
3	To be able to interpret about living organisms structure, metabolic and physiological processes in order to propose biotechnological solutions to the agricultural problems
4	To be able to analyze genomic, metabolomic and proteomic information via bioinformatic tools.
5	To have the ability to analyze collected data and interpret the results.
6	To have the ability of individual working ability and to make independent decisions, to work in inter-disciplinary and interdisciplinary teamwork, to communicate by expressing their ideas orally and in writing, clearly and concisely
7	To have the awareness of professional liabilities and ethics
8	To be able to follow current national and international problems

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

	L1	L2	L3	L4	L5
P1	2	2	1	1	1
P2	3	3	1	1	2
P3	3	2	1	1	2



P4	1	2	1	1	1
P5	3	2	3	3	5
P6	2	3	1	1	3
P7	3	2	1	1	3
P8	3	3	3	3	2

