



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Identification of Fruit- Vegetable Diseases and Pests By Biotechnological Methods							
Course Code		LBT210		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	3	Workload	75 (Hours)	Theory	2	Practice	2	Laboratory	0
Objectives of the Course		Definition of pests and diseases on vegetables, fruit trees and vineyards, their symptoms, life cycles and control will be explained.							
Course Content		The definition of fruits and vegetables diseases, their prevalence, their biology and bio-acology, their control methods. The definition of fruits and vegetables pests (nematodes, acarina and insects)biology, harm and control. Visual diagnosis of typical symptoms of pathogens and harmful insects on vegetables, fruit trees and vineyards in our country, their life cycles and control methods, , laboratory diagnosis of harmful insects and diseased plants							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Demonstration, Discussion, Individual Study					
Name of Lecturer(s)									

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

Recommended or Required Reading

1	Karaca, İ., 1977. Fitobakteriyoloji ve Bakteriyel Hastalıklar, Ege Üniversitesi Matbaası, 1977, İzmir, 270p.
2	Genel Bitki Virolojisi (Ders Notu) Süleyman Demirel Üniversitesi Yayın No: 13 Ziraat Fakültesi, Isparta, 2001
3	Karaca, İ., 1974. Sistematik Bitki Hastalıkları, E. Ü. Matbaası, Bornova-İZMİR.
4	Akşit, T., 2011. Meyve ve Bağ Zararlıları Ders Notları, Aydın (Yayınlanmamış), 100s.
5	Sebze Kitabı

Week	Weekly Detailed Course Contents	
1	Theoretical	Intracduce, apple, pear, quince fruit pests and control methods
	Practice	To examine of apple, pear, quince fruit samples..
	Preparation Work	Preparing material which about topic
2	Theoretical	Apple, pear, quince fruit pests and control methods
	Practice	To examine of apple, pear, quince fruit samples.
	Preparation Work	Preparing material which about topic
3	Theoretical	Plum, peach, apricot, cherry fruit pests and control methods
	Practice	To examine of Plum, peach, apricot, cherry fruit samples.
	Preparation Work	Preparing material which about topic
4	Theoretical	Vineyard pests and control methods
	Practice	To examine of vineyard samples.
	Preparation Work	Preparing material which about topic
5	Theoretical	Olives and olive pests control methods
	Practice	To examine of olive samples.
	Preparation Work	Preparing material which about topic
6	Theoretical	Vegetable pests and control methods
	Practice	To examine of vegetables samples.
	Preparation Work	Preparing material which about topic
7	Theoretical	Fungal diseases of vegetables (Root rots, Botrytis blight, Sclerotium diseases, Early blight)
	Practice	To examine of vegetables samples.
	Preparation Work	Preparing material which about topic
8	Intermediate Exam	Mid-term Exam
9	Theoretical	Week Fungal diseases of vegetables (Mildews, downy mildews, rusts) and special vegetable diseases



9	Practice	To examine of vegetables samples.
	Preparation Work	Preparing material which about topic
10	Theoretical	Fungal diseases of vegetables (Special vegetable diseases), fungal root rot, mildews in fruits and grapes, fungal diseases of grapes
	Practice	To examine of vegetables samples.
	Preparation Work	Preparing material which about topic
	Theoretical	Fungal diseases of grapes, cancer in fruit trees, fungal diseases of special fruits
11	Practice	To examine of grapes samples.
	Preparation Work	Preparing material which about topic
12	Theoretical	Important bacterial diseases of vegetable, fruits and grapes
	Practice	To examine of vegetables, fruits and grapes samples.
	Preparation Work	Preparing material which about topic
	Theoretical	Important viral diseases of vegetable, fruits and grapes.
13	Practice	To examine of vegetables, fruits and grapes samples.
	Preparation Work	Preparing material which about topic
14	Theoretical	Important viral diseases of vegetable, fruits and grapes.
	Practice	To examine of vegetables, fruits and grapes samples.
	Preparation Work	Preparing material which about topic
	Theoretical	Important viral diseases of vegetable, fruits and grapes.
15	Practice	To examine of vegetables, fruits and grapes samples.
	Preparation Work	Preparing material which about topic
16	Final Exam	Final Exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Lecture - Practice	14	0	1	14
Assignment	14	1	0	14
Midterm Examination	1	5	2	7
Final Examination	1	10	2	12
Total Workload (Hours)				75
[Total Workload (Hours) / 25*] = ECTS				3

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	To learn symptoms, biology and control methods of diseases and pests on fruits,
2	To learn symptoms, biology and control methods of diseases and pests on vegetables,
3	To learn symptoms, biology and control methods of diseases and pests on vineyard.
4	Olive pests and control methods
5	Learning of diseases caused by fungi in vegetables and fruits

Programme Outcomes (Laboratory Technology)

1	To be able to comprehend social, cultural and social responsibilities, to be able to follow national and international contemporary problems and developments
2	Atatürk is bound to Atatürk nationalism in the direction of principles and reforms; Adopting the national, moral, spiritual and cultural values of the Turkish people, open to universal and contemporary developments, the Turkish language is a rich, rooted and productive language; Have a love of language and a consciousness; To have the ability to use as much of a foreign language as he would need to read, taste and habit and professionally.
3	To be able to recognize the basic hardware units and operating systems of a computer, having information about internet usage and preparing documents, spreadsheets and presentations on computer by using office programs.
4	Acquires theoretical and practical knowledge at the basic level in mathematics, science and vocational field.
5	With the knowledge of laboratory technology in the field, he knows and analyzes problems, brings interpretation of data and suggests solutions.
6	In laboratories, according to the prepared business plan and program, necessary work can be done to obtain the desired quality products.
7	To have professional and ethical responsibility in business life.



8 Development and change are open, follow scientific social and cultural innovations, and develop themselves constantly.

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

	L1	L2	L3
P1	3	3	3
P2	1	1	1
P3	1	1	1
P4	3	3	3
P5	5	5	5
P6	3	3	3
P7	5	5	5
P8	5	5	5

