



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Medicinal and Aromatic Plant Diseases and Pests							
Course Code		TAP201		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	4	Workload	98 (Hours)	Theory	3	Practice	1	Laboratory	0
Objectives of the Course		To recognize the diseases and the pests in medicinal and aromatic plants grown, to learn methods of prevention and struggle of diseases and pests, and can be applying their methods.							
Course Content		To classify diseases and pests in medicinal and aromatic plants. Diseases and pests in cultivated medicinal and aromatic plants in Turkey and recognizes their exemplary. Damages caused by diseases and pests. Disease and pest control methods. What are the mechanisms of action of the drugs used?							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Experiment, Case Study					
Name of Lecturer(s)									

Assessment Methods and Criteria

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

Recommended or Required Reading

1	TAGEM, Plant Disease Plant Protection Technical Instructions, Plant Health Research Department
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Week	Weekly Detailed Course Contents	
1	Theoretical	Medicinal and Aromatic Plants traded in the world and Turkey
	Practice	Plant diseases and pests that catch our eyes.
2	Theoretical	Diseases and pests in medicinal and aromatic plants. Economic losses caused by these and fighting methods with them.
	Practice	To distinguish the disease agent (classification).
3	Theoretical	Economic importance of mint. Diseases and pests in the mint (<i>Mentha piperita</i>), and the struggle methods of them.
	Practice	To recognize the disease agent of Verticillium wilt.
4	Theoretical	Economic importance of mint. Diseases and pests in the mint (<i>Mentha piperita</i>), and the struggle methods of them.
	Practice	To recognize the disease agent of rust (<i>Puccinia</i> sp.).
5	Theoretical	Economic importance of basil. Diseases and pests in the basil (<i>Ocimum basilicum</i>), and the struggle methods of them.
	Practice	To recognize the disease agent of powdery mildew (<i>Erysiphe</i> sp.).
6	Theoretical	Economic importance of basil. Diseases and pests in the basil (<i>Ocimum basilicum</i>), and the struggle methods of them.
	Practice	To recognition the agents of Fusarium wilt.
7	Theoretical	Economic importance of lavender. Diseases and pests in the lavender (<i>Lavandula angustifolia</i>), and the struggle methods of them.
	Practice	To recognizing the nematodes.
8	Intermediate Exam	Measurement and evaluation with open-ended questions (in writing).
9	Theoretical	Economic importance of thyme. Thyme varieties. Diseases and pests in the thyme (<i>Thymus</i> sp., <i>Thymbra</i> sp., <i>Origanum</i> sp., <i>Coridothymus</i> sp., <i>Satureja</i> sp.), and the struggle methods of them.
	Practice	To recognition of aphids and red spider mites.
10	Theoretical	Economic importance of thyme. Thyme varieties. Diseases and pests in the thyme (<i>Thymus</i> sp., <i>Thymbra</i> sp., <i>Origanum</i> sp., <i>Coridothymus</i> sp., <i>Satureja</i> sp.), and the struggle methods of them.
	Practice	To recognition to the weeds.
11	Theoretical	Economic importance of sage. Sage varieties. Diseases and pests in the sage (<i>Salvia fruticosa</i> , <i>Salvia officinalis</i>), and the struggle methods of them.
	Practice	To recognition to the weeds.
12	Theoretical	Economic importance of rosemary. Diseases and pests in the rosemary (<i>Rosmarinus officinalis</i>), and the struggle methods of them.



12	Practice	To recognition to the weeds.
13	Theoretical	Mechanisms of fungicides, herbicides, and pesticides. The effects on nature and the products.
	Practice	Disinfection in diseased plants and their results.
14	Theoretical	Mechanisms of fungicides, herbicides, and pesticides. The effects on nature and the products.
	Practice	Disinfection in diseased plants and their results.
15	Theoretical	Natural stability and the role of human in natural disasters
	Practice	To observe and discuss human factor changes in our environment
16	Final Exam	Measurement and evaluation with open-ended questions (in writing).

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	3	42
Lecture - Practice	14	1	1	28
Midterm Examination	1	11	1	12
Final Examination	1	15	1	16
Total Workload (Hours)				98
[Total Workload (Hours) / 25*] = ECTS				4
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	Recognize diseases and pests in agriculture
2	Learning methods of disease and pest control and can applying them.
3	To know how to use fungicides, herbicides and pesticides.
4	To be able to learn to protect the natural stability
5	Recognition of diseases and pests in medicinal and aromatic plants

Programme Outcomes (Medical and Aromatic Plants)

1	Understands the importance of medicinal and aromatic plants in the World and Turkey
2	Learn about the general characteristics of medicinal and aromatic plants. Learn the important issues in cultivation and can apply.
3	Learn about usage technologies about medicinal and aromatic plants and can apply.
4	Inform of producers of medicinal and aromatic plant species in offering, material supply, production process, marketing matter.
5	Know and follow the laws and regulations pertaining to the profession.
6	Learns morphological and anatomical structures of plants.
7	Learns to identify medicinal and aromatic plants.
8	To be able to behave sensitively towards environmental issues at national and global levels and to be able to interpret solution-oriented information; to be able to be an environmentally conscious and entrepreneurial individual
9	To be able to follow, evaluate and implement new developments and applications in the cultivation of medicinal and aromatic plants independently or as a team.

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

	L1	L2	L3	L4
P1	4	4	4	4
P8	4	4	4	4
P9	4	4	4	4

