AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Mushroom Diseases and Pests								
Course Code	BKR213		Couse Level	Short Cycle (Associate's Degree)					
ECTS Credit	2	Workload	50 *(Hours)*	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	The aim of the course is to identify and control fungal diseases and their pests.								
Course Content	Identification and control methods of fungal diseases and pests.								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Discussion, Case Study, Individual Study, Problem Solving								
Name of Lecturer(s)	Ins. Hüseyin YERLİKAYA								

Assessment Methods and Criteria		
Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	70

Recommended or Required Reading	
1	Course notes of lecturer
2	Presentations and Lecture Notes Compiled From Different Sources
3	Bora, T., S. Toros ve H. Özaktan, 1996. Kültür Mantarı hastalıkları, Zararlıları ve Savaşımı. 138 s,
4	Öncüer, C., 1991. Tarımsal Zararlılarla Savaş Yöntemleri ve İlaçları. E. Ü. Ziraat Fak. Yay.

Week	Weekly Detailed Course Contents	
1	Theoretical	Chemical control and basic principles
2	Theoretical	Environmental and vital effects of chemical fodder, grouping of pesticides and types of formulations
3	Theoretical	Fungal diseases, factors, manifestations, ways of spreading and methods of control in cultured mushroom
4	Theoretical	Fungal diseases, factors, manifestations, ways of spreading and methods of control in cultured mushroom
5	Theoretical	Fungal diseases, factors, manifestations, ways of spreading and methods of control in cultured mushroom
6	Theoretical	Viral diseases, factors, manifestations, ways of spreading and methods of struggle in culture fungi
7	Theoretical	Physiological disorders in culture fungi and their causes
8	Intermediate Exam	Midterm exam
9	Theoretical	Measures to be taken against diseases and hygiene
10	Theoretical	Insects seen in culture mushrooms, damage patterns and methods of fighting
11	Theoretical	Insects seen in culture mushrooms, damage patterns and methods of fighting
12	Theoretical	Red spiders in culture mushrooms, damage patterns and control methods
13	Theoretical	Nematodes, damage patterns and control methods in culture mushrooms
14	Theoretical	Mechanical control, physical control, biological control, biotechnical control, integrated pest control
15	Theoretical	Applications to be made against diseases and pests during the mushroom preparation phase, drugs to be used

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Individual Work	2	1	0	2
Midterm Examination	1	9	1	10

Final Examination	1	9	1	10
			Total Workload (Hours)	50
			[Total Workload (Hours) / 25*] = **ECTS**	2
**25 hour workload is accepted as 1 ECTS*				

Learning Outcomes	
1	Learn the source of mushroom diseases and ways of transmission.
2	Know fungal, bacterial and viral factors in the mantle and pest species in the mantle
3	Know the biology of pest species in the mushroom
4	Know the harmful types of pest species
5	Learn how to control fungal diseases and pests

Programme Outcomes *(Plant Protection)*	
1	To be able to learn about systematics, morphological, biological, ecological and epidemiological information about diseases, pests and weeds that cause the loss of the crop at every stage of production,
2	To be able to become familiar with agricultural management control methods and their use in control of plant diseases, pests and weeds in cultivated agricultural crops,
3	To be able to diagnose and identify plant diseases, insect, mite or nematode pests or weeds that cause economical losses in stored crops and products,
4	To be able to use pesticides safely and effectively and informed about their hazardous non-target effects on the environment and human health.
5	To be able to learn plant protection products and their practice in organic agriculture,
6	To be able to evaluate the information obtained throughout the learning process with cause-effect relations, to be able to collect data and transfer the results to practice, and to predict where, when and why to use the information
7	To be able to comply with professional, cultural, social ethic rules in his / her field and to be entrepreneurial
8	To be able to have conscious of the universality of social rights, social justice, quality and cultural values, environment protection, occupational health and safety issues
9	To be able to use information and communication technologies together with the required computer software of his / her field
10	To be able to have the necessary background and qualifications to work in public and private agriculture sectors, to be able to conduct a study independently / as a team member and to be able to comply with the relevant legislation

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	4	4	3	4	5
P2	4	4	3	4	3
P3	4	3	4	3	3
P4	4	3	2	3	3
P5	3	3	2	1	1
P10	3	2		3	2