

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Arthropod Ved	ctors						
Course Code		ZBK601		Couse Level		Third Cycle (Doctorate Degree)			
ECTS Credit	7	Workload	180 (Hours)	Theory	3	Practice	0	Laboratory	0
Objectives of the Course The aim of this production			s course is to	explain ve	ctor arthropo	ds and to emp	hasize their	importance in plar	nt
Course Content		Definition and systematics of vectors, transmission mechanisms of diseases by arthropod vectors, role of mouth parts in transmission of the plant diseases, importance of plant tissues vectors feed on, relationships among plant-vectors and diseases and its importance in terms of disease epidemiology							
Work Placement N/A									
Planned Learning Activities and Teaching Methods			Explanati Individual		tion), Demons	tration, Disc	ussion, Case Stud	у,	
Name of Lecturer(s) Prof. Hüseyin BAŞPINAR									

Assessment Methods and Criteria						
Method	Quantity	Percentage (%)				
Midterm Examination	1	40				
Final Examination	1	60				

Recommended or Required Reading

- 1 Carter, W., 1962. Insect in Relation to Plant Disease. Interscience Publishers, New York, 705 pp.
- 2 Maramorosch, K. And Kaprowski, H., 1967. Methods in Virology. Academic Pres, New York, 570 pp.

Week	Weekly Detailed Cour	Veekly Detailed Course Contents						
1	Theoretical	Introduction and basic information on the transmission of the plant diseases by arthropods						
2	Theoretical	Transmission of bacterial and fungal plant diseases by arthropod vectors						
3	Theoretical	Transmission of plant virus diseases						
4	Theoretical	Type of mouth parts of vectors and its importance in disease transmission						
5	Theoretical	Feeding behaviour of vectors and importance of specification of feeding on plant tissues in terms of plant disease epidemiology						
6	Theoretical	Vector insects and mode of transmission of the plant diseases (Aphididae)						
7	Intermediate Exam	Mid-Term Exam						
8	Theoretical	Vector insects and mode of transmission of the plant diseases (Cicadellidae)						
9	Theoretical	Vector insects and mode of transmission of the plant diseases (Miridae, Aleyrodidae, Coccoidea, Orthoptera, Coleoptera, Thysanoptera)						
10	Theoretical	Vector insects and mode of transmission of the plant diseases (Miridae, Aleyrodidae, Coccoidea, Orthoptera, Coleoptera, Thysanoptera)						
11	Theoretical	Vector acari and mode of transmission of the plant diseases (Acarina)						
12	Theoretical	Effects of the plant diseases on the vectors						
13	Theoretical	Ecological evaluation in the transmission of plant diseases						
14	Theoretical	Control methods of vectors and importance in terms of the plant disease transmission						
15	Theoretical	General review						
16	Final Exam	Final Exam						

Workload Calculation						
Activity	Quantity	Preparation	Duration	Total Workload		
Lecture - Theory	14	2	2	56		
Term Project	14	3	2	70		
Midterm Examination	1	25	2	27		



Final Examination	1		25	2	27	
			To	tal Workload (Hours)	180	
		[Total Workload (I	Hours) / 25*] = ECTS	7	
*25 hour workload is accepted as 1 ECTS						

Lear	ning Outcomes
1	Importance of vectors in plant protection
2	Basic information in terms of epidemiology of diseases vectored by insects
3	Transmission mechanisms of plant diseases
4	Relationships among plant-vectors and diseases and its importance in epidemiology
5	Importance of vectors in plant disease control

Programme Outcomes (Plant Protection Doctorate)

- Students improve their knowledge and skill previously gained during first cycle and second cycle programs and become a specialist their own discipline
- 2 Students gain knowledge and experience for using new techniques and equipments in their own discipline.
- 3 Students gain ability to plan and conduct scientific projects in their own discipline by using current knowledge and techniques, and to collect and analyze data and make inference on the results .
- Students gain ability to write scientific articles and prepare them for publications and to make oral or poster presentations in scientific meetings.
- 5 Students gain ability to review scientific articles and projects relevant to their own discipline.
- 6 Students gain experiences how to get effective position in national and international projects.
- 7 Students gain experience for participating in and organizing scientific meetings.

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

L1	L2	L3	L4	L5
2	2	2	2	2
3	3	3	3	3
4	3	3	3	4
4	4	4	3	3
2	2	3	3	3
2	2	2	2	2
2	2	2	2	2
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