

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title Laboratory Techniques								
Course Code	TABİ205		Couse Level		Short Cycle (Associate's Degree)			
ECTS Credit 4	Workload	100 (Hours)	Theory	2	Practice	2	Laboratory	0
Objectives of the Course Having knowledge of workrules in thelaboratory, theuse of laboratorymaterial analysistechniquesandlaboratoryaccreditation,tolearnsensory,physical, chemicalandmicrobiologicalanalysistechniques					ls, quick			
Course Content	be considere sandfunctions eparation of	ed in labora of these in solutions, a	atorystudies, laboratory, cid-basecon	accidentsando andworkingm cepts, method	occupational ethods, gene ds of plantan	ratory, intendeduse safety in thelabora eral methods of an alysis, somebasica growthmedium,	tory, alysis,	
Work Placement Students have to complete required rules are describe Internship Instructions.								
Planned Learning Activities	and Teaching N	/lethods	Explanation	n (Presenta	tion), Experim	ent, Demon	stration	
Name of Lecturer(s)								

Assessment Methods and Criteria							
Method	Quantity Percentage (9						
Midterm Examination		1	40				
Final Examination		1	70				

Recommended or Required Reading

1 Lecturer and Other Releated Notes

Week	Weekly Detailed Cour	se Contents				
1	Theoretical	Laboratoryworkrulesandpointto be consideredhazardouschemicals, and, firstaid in laboratoryaccidents				
2	Theoretical	Thestructuralandphysicalproperties of thelaboratory, maintenance, cleaning, supplies, instrumentsandequipment of general laboratory				
3	Theoretical	Preparation of solution (Molar, Normal,% concentration)				
4	Theoretical	Chemical analysis techniques				
5	Theoretical	Chemical analysis techniques				
6	Theoretical	Spectrophotometricmethods, ELISA andotherserologicalmethods, instrumentalanalyticaltechniques				
7	Theoretical	Introduction to microbiology laboratory				
8	Intermediate Exam	Midterm examination				
9	Theoretical	Sensory analysis				
10	Theoretical	Physical analysis techniques				
11	Theoretical	Physical analysis techniques				
12	Theoretical	Microbiologic alanalysis techniques				
13	Theoretical	Microbiologic Alanalysis techniques				
14	Theoretical	Rapid microbiological analysis techniques				
15	Theoretical	Laboratory Accreditation				

Workload Calculation							
Activity	Quantity	Preparation	Duration	Total Workload			
Lecture - Theory	14	0	2	28			
Lecture - Practice	14	0	2	28			
Midterm Examination	1	21	1	22			



Final Examination	1		21	1	22
Total Workload (Hours)					
[Total Workload (Hours) / 25*] = ECTS					
*25 hour workload is accepted as 1 ECTS					

Learr	ning Outcomes	
1	Recognizes and categorizes laboratories	
2	Knows the rules to be considered in laboratory studies	
3	Knowledgeable about laboratory security and accidents	
4	Applies general analysis methods	
5	Prepare the solution	
6	Prapare growth medium	
7	Applies heat treatment	

Programme Outcomes (Plant Protection)

- 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,
- 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,
- 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,
- 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,
- 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
- 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
- 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

	LT	L2	L3	L4	L5	L6	L/
P1	2	2					1
P2	2	2		2		1	1
P3	2	2		2		2	1
P6			4		4	3	1
P7			2				
P10	3	3	4	3	4		3

