

## 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 laboratorymaterials, quick analysistechniquesandlaboratoryaccreditation,tolearnsensory,physical, chemicalandmicrobiologicalanalysistechniques							
Course Content	therulesneedto materials, tools solutionsandpr	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		are describes					thirty work days to locational School,	
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 (%)				
Midterm Examination		1	40			
Final Examination		1	70			

## **Recommended or Required Reading**

1 Lecturer and Other Releated Notes

Week	<b>Weekly Detailed Cour</b>	se Contents					
1	Theoretical	Laboratoryworkrulesandpointto be consideredhazardouschemicals, and, firstaid in laboratoryaccidents					
2	Theoretical	Thestructuralandphysicalproperties of thelaboratory, maintenance, cleaning, supplies, nstrumentsandequipment 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, nstrumentalanalyticaltechniques					
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					

orkload 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)			100	
[Total Workload (Hours) / 25*] = <b>ECT</b>				Hours) / 25*] = <b>ECTS</b>	4
*25 hour workload is accepted as 1 ECTS					

Learn	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 (Fungiculture)							
1	Having knowledge of morphology, anatomy, cytology, physiology and biochemica Istructures of mushroom						
2	Having knowledge of soil and climate conditions for mushroom cultivation						
3	Having knowledge of identification, classification and the use areas of mushroom species						
4	Having knowledge of culture and production techniques of mushroom						
5	5 Having knowledge of harvestand conservation of mushroom						
6	Having ability to identify and to maintainim portantd iseases and pests of mushroom species						
7	Having ability and knowledge of marketin gtechniques of mushroom products, effectively.						
8	Ability t oproject mushroom built.						
9	Having knowledge of Laboratuar techniques						
10	Having knowledge of mushroom management						

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

	L1	L2	L3	L4	L5	L6	L7
P2	4	4	4	4	4	4	4
P3	4	4	4	4	4	4	4
P10	4	4	4	4	4	4	4

