

## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title Laboratory Techniques									
Course Code	TABİ205	TABİ205 Couse		ıse 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  Definition and classification of laboratory, qualification requirements for the laboratory the rules need to be considered in laboratory studies, accidents and occupationals materials, tools and functions of these in laboratory, and working methods, gene solutions and preparation of solutions, acid-base concepts, methods of plantana foods tuffs, microbiology laboratories, and the general rules, and preparation of heattreatment				occupationals ethods, gener ds of plantana	afety in thelabora al methods of an lysis, somebasica	ntory, alysis,			
Work Placement Students have to complete their required rules are describes at the Internship Instructions.									
Planned Learning Activities	and Teaching	Methods	Explan	ation	(Presenta	tion), Experim	ent, Demonst	ration	
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, 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)				100		
[Total Workload (Hours) / 25*] = <b>ECTS</b>						
*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	

Progr	amme Outcomes (Medical and Aromatic Plants)						
1	Having the recognition, classification and the use araes knowledge of medical and aromatic plants						
2	Having pratical and technical knowledge about cultivation and production of medical and aromatic plants						
3	Having knowleedge of morphology, anotomy, cytology, physiology and biochemical structures of medical and aromatic plants						
4	Having knowledge of important of soil conditions to grow medical and aromatic plants						
5	Having information and the ability to use materials related with basic math and basic chemistry founded on qualifications gained in secondary education						
6	Having ability to use effective own language and having knowledge of foreign language in order to communicate own colleagues and own customers						
7	Having ability to collect medical and aromatic plants, having knowledge of seed technology, drying and conservation of these plants						
8	Having ability to identify and to fight diseases and pests of medical and aromatic plants						
9	Having knowledge of all Agricultural activities						
10	Having knowledge of Atatürk Principle and Revolutions and to assimilate Atatürk Principle and Revolutions						
11	Having consciousness of quality						
12	Having knowledge and accumulation of investigative and evaluation						
13	Ability to work as an individual capable of independent decision-making ideas verbally and in writing, stating the figure to communicate in a clear and concise						
14	Ability to identify plants used for medical purposes and to obtain mixtures from drogs acquired these plants						
15	Having skill and knowledge of marketing techniques medical and aromatic plants						

## 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	L/
P1					4		
P5	4	4	4	4		4	4
P12	4	4	4	4	4	4	4
P13	4	4	4	4	4	4	4

