



AYDIN ADNAN MENDERES UNIVERSITY
SULTANHISAR VOCATIONAL SCHOOL
FUNGICULTURE
COURSE INFORMATION FORM

Course Title	Laboratory Techniques								
Course Code	TABİ205		Course 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 the laboratory, the use of laboratory materials, quick analysis techniques and laboratory accreditation, to learn sensory, physical, chemical and microbiological analysis techniques								
Course Content	Definition and classification of laboratory, qualification requirements for the laboratory, intended use, the rules need to be considered in laboratory studies, accidents and occupational safety in the laboratory, materials, tools and functions of these in laboratory, and working methods, general methods of analysis, solutions and preparation of solutions, acid-base concepts, methods of plant analysis, some basic analysis of foodstuffs, microbiology laboratories, and the general rules, and preparation of growth medium, heat treatment								
Work Placement	Students have to complete their internship and properties within the required thirty work days time. The required rules are describes at the Adnan Menderes University, Sultanhisar Vocational School, Student Internship Instructions.								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Experiment, Demonstration								
Name of Lecturer(s)	Assoc. Prof. Özgür GÜÇLÜ								

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

Recommended or Required Reading

1	Lecturer and Other Related Notes
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Week	Weekly Detailed Course Contents	
1	Theoretical	Laboratory work rules and point to be considered hazardous chemicals, and, first aid in laboratory accidents
2	Theoretical	The structural and physical properties of the laboratory, maintenance, cleaning, supplies, instruments and equipment of general laboratory
3	Theoretical	Preparation of solution (Molar, Normal, % concentration)
4	Theoretical	Chemical analysis techniques
5	Theoretical	Chemical analysis techniques
6	Theoretical	Spectrophotometric methods, ELISA and other serological methods, instrumental analytical techniques
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 analysis techniques
13	Theoretical	Microbiologic Analysis 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*] = ECTS				4
*25 hour workload is accepted as 1 ECTS				

Learning 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 lstructures 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	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

