AYDIN ADNAN MENDERES UNIVERSITY
AYDIN VOCATIONAL SCHOOL OF HEALTH SERVICES
MEDICAL SERVICES AND TECHNIQUES
MEDICAL LABORATORY TECHNIQUES
COURSE INFORMATION FORM

Course Title	Application Of Microbiology II								
Course Code	TL211		Couse Level		Short Cycle (Associate's Degree)				
ECTS Credit	2	Workload	50 *(Hours)*	Theory	0	Practice	2	Laboratory	0
Objectives of the Course	To teach the information and skills to identify the biogenic bacteria, to make tests of anti biological sensitivity, to make analysis of microbacteriologic and mycology								
Course Content	Identify biogenic bacteria,Make tests of anti biological sensitivity,Make microbacteriologic analysis, Prepare microbiological preparation,Make mycology analysis								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Experiment, Demonstration, Discussion, Case Study, Individual Study								
Name of Lecturer(s)	Assoc. Prof. Canan HAZIR, Ins. Tuğçe OKTAV								

Assessment Methods and Criteria		
Method	Quantity	Percentage (%)
Practice Examination	1	100

Recommended or Required Reading	
1	Bilgehan H. Basic Microbiology and Immunology, 8th edition, Faculties Bookstore, Bornova, 1996
2	Serter N. Microbiology. T. C. Anadolu University Publications No: 490, Eskisehir, 1991.

Week	Weekly Detailed Course Contents	
1	Practice	Direct microscopic examination of bacteria
2	Practice	Recognition of microbiological media
3	Practice	Preparation of food
4	Practice	Diagnosis of microorganism by direct examination
5	Practice	Throat culture acquisition
6	Practice	Identification of breeding bacteria
7	Practice	Making mycobacterial analysis
8	Practice	Pure culture medium with single colony cultivation
9	Practice	Pure culture medium with single colony cultivation
10	Practice	Bacteria staining
11	Practice	Bacteria staining
12	Practice	Direct microscopic examination of molds
13	Practice	Direct microscopic examination of yeast
14	Practice	Make mycology analysis
15	Practice	Practice Exam

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Practice	14	1	2	42
Assignment	1	2	2	4
Practice Examination	1	2	2	4
			Total Workload (Hours)	50
			[Total Workload (Hours) / 25*] = **ECTS**	2
**25 hour workload is accepted as 1 ECTS*				

Learning Outcomes	
1	Identification of breeding bacteria
2	Perform an antibiotic susceptibility test
3	Make mycobacterial analysis

4	Make mycology analysis
5	Microbiological testing methods utilized in diagnosis of knowing

Programme Outcomes *(Medical Laboratory Techniques)*	
1	To be able to have sufficient back ground in medical laboratory techniques and medical laboratory branches (biochemistry, microbiology,parasitology,sitogenetiketc.);the ability to use theoretical and practical knowledge in these fields.
2	To be able to have the basic theoretical and practical knowledgeand other resources have been supported applications and tools based on secondary-level qualifications gained in the field of Medical Laboratory Techniques Program to-date text boks containing formations
3	To be able to have basic knowledge about structure and function of systems in human, to analyse these data on tissue, cell and diseases.
4	To be able to analyse the medical samples necessary for physicians by using tools, equipment and techniques at the diagnostic and the rapeutic laboratories of health agencies and evaluate the data.
5	To be able to use the medical laboratoy tools and equipments according to rules and technics, and make controls and maintenance of them
6	To be able to perform basic tests of related different medical laboratories, prepare solutions.
7	To be able to perform proper sample collection and transport procedures for the medical laboratory tests from the patient.
8	To be able to perform preanalytical sample preparation procedure, prepare inspection preparations, perform disinfection and sterilization
9	To be able to interpret and evaluate data, define and analyze problems, develop solutions based on research and proofs by using acquired basic knowledge and skills with in the field.
10	To be able to have knowledge about work organization and carry out related practice in medical laboratories
11	To be able to carry out laboratory safety protocols, take individual safety precaution and create safe laboratory environment.
12	To be able to gain the ability to apply by viewing and evaluating the processes related to his/her fields in public and private sector.
13	To be able to gain the awareness of the necessity of life long learning, ability to follow developments in science and technology and self-renewal.
14	To be able to help laboratory experts and medical scientists for their researches
15	To be able to be aware of individual and public health, environmental protection and job security issues, under standing the basic level of the relationship.
16	To be able to grasp principles of Atatürk and there volutions, to ensurenational, ethical, spiritual and cultural values, to adopt to universal and contemporary developments
17	To be able to communicate efficiently for medical service and speak Turkish efficiently.
18	To be able to communicate in English at basic level, utilize foreign language on occupational practice

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

	L1	L2	L3	L4	L5
P1	5	5	5	5	5
P2	5	5	5	5	5
P4	5	5	5	5	5
P5	5	5	5	5	5
P6	5	5	5	5	5
P7	5	5	5	5	5
P8	5	5	5	5	5
P9	5	5	5	5	5
P10	5	5	5	5	5
P11	5	5	5	5	5
P12	5	5	5	5	5
P13	5	5	5	5	5
P14	5	5	5	5	5
P15	4	4	4	4	4