



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 III								
Course Code	TL204	Course Level			Short Cycle (Associate's Degree)				
ECTS Credit	5	Workload	125 (Hours)	Theory	0	Practice	4	Laboratory	0
Objectives of the Course	To learn medically important bacteria.								
Course Content	Identify gram positive cocci, Identify gram negative cocci, Make laboratory identification of gram positive sporeforming bacilli, Make laboratory identification of gram positive non-sporeforming bacilli, Make laboratory identification of small gram negative bacilli, Make laboratory identification of enterobacteriaceae group bacteria, Make laboratory identification of nonferments, Make laboratory identification of obligate intracellular bacteria, Make laboratory identification spirochaeta								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Demonstration								
Name of Lecturer(s)									

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

Recommended or Required Reading	
1	Bilgehan H. Temel Mikrobiyoloji ve Bağışıklık Bilimi 8. Baskı. Fakülteler Kitabevi, Bornova, 1996
2	Serter N. Mikrobiyoloji. T.C. Anadolu Üniversitesi Yayınları No:490, Eskişehir, 1991.

Week	Weekly Detailed Course Contents	
1	Practice	Identify gram positive cocci
2	Practice	Identify gram negative cocci
3	Practice	Make laboratory identification of gram positive spore forming bacilli
4	Practice	Make laboratory identification of gram positive non-spore forming bacilli
5	Practice	Make laboratory identification of small gram negative bacilli
6	Practice	Make laboratory identification of small gram negative bacilli
7	Practice	Make laboratory identification of enterobacteriaceae group bacteria
8	Practice	Make laboratory identification of enterobacteriaceae group bacteria
9	Practice	Make laboratory identification of enterobacteriaceae group bacteria
10	Practice	Make laboratory identification of non ferments
11	Practice	Make laboratory identification of anaerob bacteria
12	Practice	Make laboratory identification of obligate intracellular bacteria
13	Practice	Make laboratory identification spirochaeta
14	Practice	Make laboratory identification spirochaeta
15	Practice	Practice Exam

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Practice	14	2	4	84
Individual Work	12	0	3	36
Practice Examination	1	1	4	5
Total Workload (Hours)				125
[Total Workload (Hours) / 25*] = ECTS				5

*25 hour workload is accepted as 1 ECTS

Learning Outcomes	
1	Take a sample of the microbiological
2	For the preparation of the microbiological



3	Have the knowledge and skills to accept or reject the samples to the laboratory, handling, transmitting, storing of them.
4	Have the knowledge and skills in routine microbiological analysis.
5	Have the knowledge about to clinical laboratory operations, laboratory safety and practices

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 knowledge and 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 books 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 therapeutic laboratories of health agencies and evaluate the data.
5	To be able to use the medical laboratory tools and equipments according to rules and techniques, 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, understanding the basic level of the relationship.
16	To be able to grasp principles of Atatürk and their evolutions, to ensure national, 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
P14	5	5	5	5	5

