



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 I								
Course Code	TL108	Course Level			Short Cycle (Associate's Degree)				
ECTS Credit	3	Workload	75 (Hours)	Theory	0	Practice	2	Laboratory	0
Objectives of the Course	Disinfection, sterilization, media preparation by applying the appropriate sampling, microbiology slide preparation and mediums is a course where the knowledge and skills.								
Course Content	Methods of disinfection, Sterilization methods, Mediums, the preparation of detection methods, General rules of planting, Mediums and their intended use								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Experiment, Demonstration, Discussion, Individual Study								
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	Disinfection, antiseptis and sterilization concepts, methods of disinfection
2	Practice	Sterilization methods
3	Practice	Low-temperature sterilization methods,
4	Practice	Use of Chemical sterilanlar
5	Practice	The structure of bacteria, the metabolism
6	Practice	Growth of bacteria, nutrient needs,
7	Practice	Mediums
8	Practice	Sampling methods, sample handling and storage criteria
9	Practice	Example accept the rejection criteria
10	Practice	The preparation of detection methods
11	Practice	General rules of planting
12	Practice	Mediums and their intended use
13	Practice	Mediums and their intended use
14	Practice	Colony morphology and changes in medium
15	Practice	Practice Exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Practice	14	2	2	56
Individual Work	14	0	1	14
Practice Examination	1	3	2	5
Total Workload (Hours)				75
[Total Workload (Hours) / 25*] = ECTS				3

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	1. To make the Disinfection
2	2. To make the sterilization
3	3. Prepare the culture medium



4	4. Take a Microbiological sample
5	5. For the preparation of microbiological
6	6. To cultivation culture medium

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	L6
P1	5	5	5	5	5	5
P2	5	5	5	5	5	5
P3	4	4	4	4	4	4
P4	5	5	5	5	5	5
P5	5	5	5	5	5	5
P6	5	5	5	5	5	5
P7	5	5	5	5	5	5
P8	5	5	5	5	5	5
P9	5	5	5	5	5	5
P10	5	5	5	5	5	5
P11	5	5	5	5	5	5
P12	5	5	5	5	5	5
P13	5	5	5	5	5	5
P14	5	5	5	5	5	5
P15	5	5	5	5	5	5

