



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Application Of Microbiology III							
Course Code		TL204		Couse Level		Short Cycle (Associate's Degree)			
ECTS Credit	5	Workload	125 (<i>Hours</i>)	Theory	0	Practice	4	Laboratory	0
Objectives of the Course		To learn medically important bacteria.							
Course Content		Identify gram positivecocci, Identify gram negative cocci, Make laboratory identification of gram positive sporeforming bacilli,Make laboratory identification of gram positivenon-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 obligateintracelluler 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 fermenters
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	Understands the basic operation, organization, and safety rules of the medical laboratory; takes personal safety precautions and ensures a safe laboratory environment.
2	Accepts samples in the medical laboratory, performs pre-analysis preparation, ensures proper transfer conditions, and delivers results.
3	Performs basic tests in various fields of the medical laboratory, prepares analytical solutions, and effectively uses devices and techniques involved in the analysis process.
4	Applies disinfection and sterilization techniques, ensures laboratory hygiene, and complies with waste management procedures.
5	Evaluates and interprets the results of analyses and prepares laboratory reports in accordance with professional ethical principles.
6	Possesses fundamental knowledge of health sciences and effectively uses medical terminology in professional applications.
7	Communicates effectively in healthcare services, works well in teams, and uses Turkish proficiently; has a basic level of foreign language proficiency in professional applications. Embraces Atatürk's principles and reforms, adopts national, moral, spiritual, and cultural values, and maintains an open perspective toward universal and contemporary developments.
8	Keeps up with advancements in science and technology, continuously updates professional knowledge and skills, and engages in self-improvement.
9	Is aware of individual and public health, environmental protection, and occupational safety issues and fulfills responsibilities in these areas.
10	Possesses awareness of career management and lifelong learning within an academic context.

