

Vocational School / Medical Laboratory Techniques

2023 - 2024 Academic Year

BASIC MICROBIOLOGY

Syllabus

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
BASIC MICROBIOLOGY	TLT1226900	Spring Semester	2+0	2	4
Prerequisites Courses					
Recommended Elective Courses	None				
Language of Instruction	Turkish				
Course Level	Short Cycle (Associate's Degree)				
Course Type	Required				
Course Coordinator	Lect. Aslıhan DEMİRCAN				
Name of Lecturer(s)	Lect. Hasan SAĞCAN				
Assistant(s)					
Aim	The aim of this course is to mention the importance of microorganisms and microbiology, to teach prokaryotic cell biology (metabolism and genetic), define nutrient and other physical needs of microorganisms, modes of transmission, infection control, host-microorganism interaction.				
Course Content	This course contains; Introduction to microbiology, Taxonomy of microorganism, Microbiota and pathogenicity of microorganisms, Bacterial structure and physiology, Bacterial genetics, Medically important bacteria and diseases, Fungi, Parasites, Virus structure and genetics, Medically important viruses and diseases, Diagnostic methods in microbiology, Sterilization, disinfection and antiseptics, Antimicrobial agents, Aşılar.				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
Recognizes and classifies the microorganisms			10, 16, 9	A	
Explain the genetics of microorganisms			16, 9	A	
Summarizes the modes of transmission and infection control.			16, 9	A	
Explains the infections.			16, 9	A	
Teaching Methods	10: Discussion Method, 16: Question - Answer Technique, 9: Lecture Method				
Assessment Methods	A: Traditional Written Exam				
Lecture Schedule					
Sequence	Topics	Preliminary Preparation			
1	Introduction to microbiology				
2	Taxonomy of microorganism				
3	Microbiota and pathogenicity of microorganisms				
4	Bacterial structure and physiology				
5	Bacterial genetics				
6	Medically important bacteria and diseases				
7	Fungi				
8	Parasites				
9	Virus structure and genetics				
10	Medically important viruses and diseases				
11	Diagnostic methods in microbiology				
12	Sterilization, disinfection and antiseptics				
13	Antimicrobial agents				
14	Aşılar				
Evaluation Methods		Weight(%)			
Midterm Exam		40			
General Exam		60			
Resources					
1. Microbioloji, William A. Strohl-Harriet Rouse-B.Fisher; Lippincott Illustrated Reviews 2. Aslıhan DEMİRCAN, Basic Microbiology Lecture Notes					