

**Vocational School / Dental Assisting**  
**2023 - 2024 Academic Year**  
**BASIC MICROBIOLOGY**  
**Syllabus**

<b>Course Description</b>					
<b>Name</b>	<b>Code</b>	<b>Semester</b>	<b>T+A Hour</b>	<b>Credit</b>	<b>ECTS</b>
BASIC MICROBIOLOGY	ADS1126900	Fall Semester	2+0	2	4
<b>Prerequisites Courses</b>					
<b>Recommended Elective Courses</b>	None				
<b>Language of Instruction</b>	Turkish				
<b>Course Level</b>	Short Cycle (Associate's Degree)				
<b>Course Type</b>	Required				
<b>Course Coordinator</b>	Lect. Aslıhan DEMİRCAN				
<b>Name of Lecturer(s)</b>	Lect. Sibel ÖZALP				
<b>Assistant(s)</b>					
<b>Aim</b>	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.				
<b>Course Content</b>	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.				
<b>Course Learning Outcomes</b>			<b>Teaching Methods</b>	<b>Assessment Methods</b>	
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	
<b>Teaching Methods</b>	10: Discussion Method, 16: Question - Answer Technique, 9: Lecture Method				
<b>Assessment Methods</b>	A: Traditional Written Exam				
<b>Lecture Schedule</b>					
<b>Sequence</b>	<b>Topics</b>	<b>Preliminary Preparation</b>			
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				
<b>Evaluation Methods</b>		<b>Weight(%)</b>			
Midterm Exam		40			
General Exam		60			
<b>Resources</b>					
1. Microbioloji, William A. Strohl-Harriet Rouse-B.Fisher; Lippincott Illustrated Reviews 2. Aslıhan DEMİRCAN, Basic Microbiology Lecture Notes					