

**Vocational School / Medical Laboratory Techniques**  
**2023 - 2024 Academic Year**  
**LABORATORY TECHNIQUES and SAFETY**  
**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>
LABORATORY TECHNIQUES and SAFETY	TLT1121810	Fall Semester	2+0	2	2
<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>	Elective				
<b>Course Coordinator</b>	Lect. Ekrem Musa ÖZDEMİR				
<b>Name of Lecturer(s)</b>	Assist.Prof. Ümit Can ERİM				
<b>Assistant(s)</b>	None				
<b>Aim</b>	Working in the laboratory, providing safety, recognition and proper use of laboratory equipment and equipment are taught.				
<b>Course Content</b>	This course contains; Laboratory working principles,Laboratory safety,Things to observe when working with chemicals,Things to observe when working with glass,Cam malzemelerin temizlenmesi ve kurutma teknikleri,Laboratory equipment and instruments,Disinfection and Sterilization,solutions,Disposal and consideration of chemical wastes,Laboratory accidents and first aid,Transport and storage of chemical substances,Chemicals and safety measures harmful to human health,Planning an experiment, setting up the equipment, keeping the test book,General evaluation.				
<b>Course Learning Outcomes</b>			<b>Teaching Methods</b>	<b>Assessment Methods</b>	
List the rules for working in the laboratory.			16, 5, 9	A	
Tells about the accidents in the laboratories and safety measures.			16, 5, 9	A	
Applies the basic processes done in the laboratories.			16, 5, 9	A	
<b>Teaching Methods</b>	16: Question - Answer Technique, 5: Cooperative Learning, 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	Laboratory working principles	Lecture Notes			
2	Laboratory safety	Lecture Notes			
3	Things to observe when working with chemicals	Lecture Notes			
4	Things to observe when working with glass	Lecture Notes			
5	Cam malzemelerin temizlenmesi ve kurutma teknikleri	Lecture Notes			
6	Laboratory equipment and instruments	Lecture Notes			
7	Disinfection and Sterilization	Lecture Notes			
8	solutions	Lecture Notes			
9	Disposal and consideration of chemical wastes	Lecture Notes			
10	Laboratory accidents and first aid	Lecture Notes			
11	Transport and storage of chemical substances	Lecture Notes			
12	Chemicals and safety measures harmful to human health	Lecture Notes			
13	Planning an experiment, setting up the equipment, keeping the test book	Lecture Notes			
14	General evaluation	Lecture Notes			
<b>Evaluation Methods</b>		<b>Weight(%)</b>			
Midterm Exam		40			
General Exam		60			
<b>Resources</b>					
Powerpoint notes will be given to studentsNone					