

Vocational School / Medical Laboratory Techniques

2023 - 2024 Academic Year

**BASIC CLINICAL BIOCHEMISTRY**

**Syllabus**

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
BASIC CLINICAL BIOCHEMISTRY	TLT2218080	Spring Semester	2+4	4	6
<b>Prerequisites Courses</b>					
<b>Recommended Elective Courses</b>					
<b>Language of Instruction</b>	Turkish				
<b>Course Level</b>	Short Cycle (Associate's Degree)				
<b>Course Type</b>	Required				
<b>Course Coordinator</b>	Assist.Prof. Neziha HACIHASANOĞLU ÇAKMAK				
<b>Name of Lecturer(s)</b>	Lect. Sibel ÖZALP, Lect.Dr. Özcan AVCI				
<b>Assistant(s)</b>					
<b>Aim</b>	To train competent technicians in clinical biochemistry laboratory applications.				
<b>Course Content</b>	This course contains; Blood Analyzes (I),Blood Analyzes (II),Blood Analysis (III),Body Fluids Analysis (I),Body Fluids Analysis (II),Enzyme Analysis,Plasma Proteins,Liver Function Tests,Kidney Function Tests,Pancreatic Function Tests,Urine Analysis (I),Urine Analysis (II),Urinary System Stones Analysis,Cancer Markers.				
<b>Course Learning Outcomes</b>		<b>Teaching Methods</b>	<b>Assessment Methods</b>		
Defines laboratory measurement methods.		16, 6, 9	A, C		
Summarizes sample acceptance, sampling methods, sample storage conditions.		16, 6, 9	A, C		
Explains how blood analysis, urine analysis, liver, pancreas and kidney function tests are performed.		16, 6, 9	A, C		
<b>Teaching Methods</b>	16: Question - Answer Technique, 6: Experiential Learning, 9: Lecture Method				
<b>Assessment Methods</b>	A: Traditional Written Exam, C: Multiple-Choice Exam				
<b>Lecture Schedule</b>					
<b>Sequence</b>	<b>Topics</b>	<b>Preliminary Preparation</b>			
1	Blood Analyzes (I)	Studying the relevant section in the relevant source			
2	Blood Analyzes (II)	Studying the relevant section in the relevant source			
3	Blood Analysis (III)	Studying the relevant section in the relevant source			
4	Body Fluids Analysis (I)	Studying the relevant section in the relevant source			
5	Body Fluids Analysis (II)	Studying the relevant section in the relevant source			
6	Enzyme Analysis	Studying the relevant section in the relevant source			
7	Plasma Proteins	Studying the relevant section in the relevant source			
8	Liver Function Tests	Studying the relevant section in the relevant source			
9	Kidney Function Tests	Studying the relevant section in the relevant source			
10	Pancreatic Function Tests	Studying the relevant section in the relevant source			
11	Urine Analysis (I)	Studying the relevant section in the relevant source			
12	Urine Analysis (II)	Studying the relevant section in the relevant source			
13	Urinary System Stones Analysis	Studying the relevant section in the relevant source			
14	Cancer Markers	Studying the relevant section in the relevant source			
<b>Evaluation Methods</b>		<b>Weight(%)</b>			
Midterm Exam		40			
General Exam		60			

Resources
Sağlık Bilimleri için Biyokimya ( Dr. Öğr. Üyesi Neziha HACIHASANOĞLU ÇAKMAK)