

Vocational School / Medical Laboratory Techniques
2023 - 2024 Academic Year
BIOCHEMISTRY LABORATORY
Syllabus

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
BIOCHEMISTRY LABORATORY	TLT2178080	Fall Semester	0+4	2	7
Prerequisites Courses					
Recommended Elective Courses					
Language of Instruction	Turkish				
Course Level	Short Cycle (Associate's Degree)				
Course Type	Required				
Course Coordinator	Assist.Prof. Neziha HACIHASANOĞLU ÇAKMAK				
Name of Lecturer(s)	Lect. Sibel ÖZALP				
Assistant(s)					
Aim	Analysis of the tests applied in the biochemistry laboratory and evaluation of the results, teaching sample acceptance criteria				
Course Content	This course contains; Definition of medical laboratory,Laboratory rules,Preparation of solution, Preparation of solution,Laboratory measurement methods,Laboratory measurement methods,Pipetting,Pipetting, Titration, Titration,Spectrophotometric measurement,Spectrophotometric measurement,Blood drawing,Blood drawing.				
Course Learning Outcomes		Teaching Methods	Assessment Methods		
1. Learn individual safe working rules in laboratory, safe working rules with chemical and biological materials		16, 9	A, B, C, E, H		
2. Know the theoretical and practical application of solution preparation		16, 9	A, B, C, E, H		
3. Know the job description of the laboratory technician		16, 9	A, B, C, E, H		
4. Examination of laboratory measurement methods		16, 9	A, B, C, E, H		
Teaching Methods	16: Question - Answer Technique, 9: Lecture Method				
Assessment Methods	A: Traditional Written Exam, B: Short Answer Exam, C: Multiple-Choice Exam, E: Homework, H: Performance Task				
Lecture Schedule					
Sequence	Topics	Preliminary Preparation			
1	Definition of medical laboratory				
2	Laboratory rules				
3	Preparation of solution				
4	Preparation of solution				
5	Laboratory measurement methods				
6	Laboratory measurement methods				
7	Pipetting				
8	Pipetting				
9	Titration				
10	Titration				
11	Spectrophotometric measurement				
12	Spectrophotometric measurement				
13	Blood drawing				
14	Blood drawing				
Evaluation Methods		Weight(%)			
Midterm Exam		40			
General Exam		60			

Resources
Sağlık Bilimleri için Biyokimya (Yazar: Dr. Öğr. Üyesi Neziha HACIHASANOĞLU ÇAKMAK) Laboratuvar Dünyası (Yazar: Prof.Dr. Uzay Görmüş) Klinik Biyokimya El Kitabı (Yazar: Prof. Dr. İdris Mehmetoğlu) Harper'in Resimli Biyokimyası