

Vocational School of Health Services / Medical Laboratory Techniques

2023 - 2024 Academic Year

BIOCHEMISTRY LABORATORY

Syllabus

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
BIOCHEMISTRY LABORATORY	TLT2115019	Fall Semester	1+3	2,5	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)	Assist.Prof. Neziha HACIHASANOĞLU ÇAKMAK				
Assistant(s)					
Aim	Knows the applications in biochemistry laboratory, learns the sample acceptance criteria.				
Course Content	This course contains; Definition of medical laboratory,Laboratory rules,Functioning of the Clinical Laboratory,Studies in Clinical Laboratories,Sources of Error in Laboratory,Water and Electrolytes,Acids and Bases,Solution Concept and Percent Solutions,Molar and normal solutions,Transportation and Acceptance of Laboratory Samples ,Preparation of Laboratory Samples for Analysis,Techniques Used in Laboratory Measurements,Blood drawing 1,Blood drawing 2.				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
Knows the rules of individual safe working in the laboratory, the rules of safe working with chemical and biological materials. Applies the theoretical and practical knowledge about solution preparation.Knows the job description of the laboratory technician.Transfers laboratory measurement methods.			16, 6, 9	A, B, C	
Teaching Methods	16: Question - Answer Technique, 6: Experiential Learning, 9: Lecture Method				
Assessment Methods	A: Traditional Written Exam, B: Short Answer Exam, C: Multiple-Choice Exam				
Lecture Schedule					
Sequence	Topics	Preliminary Preparation			
1	Definition of medical laboratory	Studying the relevant section in the relevant source			
2	Laboratory rules	Studying the relevant section in the relevant source			
3	Functioning of the Clinical Laboratory	Studying the relevant section in the relevant source			
4	Studies in Clinical Laboratories	Studying the relevant section in the relevant source			
5	Sources of Error in Laboratory	Studying the relevant section in the relevant source			
6	Water and Electrolytes	Studying the relevant section in the relevant source			
7	Acids and Bases	Studying the relevant section in the relevant source			
8	Solution Concept and Percent Solutions	Studying the relevant section in the relevant source			
9	Molar and normal solutions	Studying the relevant section in the relevant source			
10	Transportation and Acceptance of Laboratory Samples	Studying the relevant section in the relevant source			
11	Preparation of Laboratory Samples for Analysis	Studying the relevant section in the relevant source			
12	Techniques Used in Laboratory Measurements	Studying the relevant section in the relevant source			
13	Blood drawing 1	Studying the relevant section in the relevant source			
14	Blood drawing 2	Studying the relevant section in the relevant source			
Evaluation Methods		Weight(%)			
Midterm Exam		40			
General Exam		60			

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