

Vocational School / Medical Laboratory Techniques
2023 - 2024 Academic Year
ORGANIZATION of MEDICAL LAB. & WORKING PRINCIPLES
Syllabus

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
ORGANIZATION of MEDICAL LAB. & WORKING PRINCIPLES	TLT1125800	Fall Semester	2+0	2	6
Prerequisites Courses					
Recommended Elective Courses					
Language of Instruction	Turkish				
Course Level	Short Cycle (Associate's Degree)				
Course Type	Required				
Course Coordinator	Lect. Semiha Mervener KALENDER				
Name of Lecturer(s)	Lect. Büşra ŞAHİN KURT				
Assistant(s)					
Aim	Understand the working principles of the laboratory, have general knowledge about the laboratories.				
Course Content	This course contains; Definition and content of medical laboratory, the materials used in the laboratory, The rules of laboratory, Laboratuvar safety and infectious diseases, Preperation of solution, Laboratories organization and job description of laboratory technician, Measurement methods of laboratory, Taking blood, anticoagulants, considerations topics of sample acceptance (lipemia, hemolysis, etc.). Descriptions of improper sample, the sample exclusion criteria, Quality control, equipment maintenance (daily, weekly, monthly) and cleaning, Laboratory tests 1., Laboratory tests 2., Laboratory tests 3., Sources of errors in analyzes, Interpretation of test results, According to based on test relations which test must be repeated?, Reference range calculation and reporting panic values..				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
Defines laboratory working rules.			16, 9	C	
Defines his/her job description and laboratory organization.			16, 9	C	
Defines about the job description and laboratory organization.			16, 9	C	
List the principles of laboratory measuring methods.			16, 9	C	
Interpret routine laboratory tests studied.			16, 9	C	
Teaching Methods	16: Question - Answer Technique, 9: Lecture Method				
Assessment Methods	C: Multiple-Choice Exam				
Lecture Schedule					
Sequenc e	Topics	Preliminary Preparation			
1	Definition and content of medical laboratory, the materials used in the laboratory.	reading lecture notes			
2	The rules of laboratory.	reading lecture notes			
3	Laboratuvar safety and infectious diseases.	reading lecture notes			
4	Preperation of solution.	reading lecture notes			
5	Laboratories organization and job description of laboratory technician.	reading lecture notes			
6	Measurement methods of laboratory.	reading lecture notes			
7	Taking blood, anticoagulants, considerations topics of sample acceptance (lipemia, hemolysis, etc.). Descriptions of improper sample, the sample exclusion criteria	reading lecture notes			
8	Quality control, equipment maintenance (daily, weekly, monthly) and cleaning.	reading lecture notes			
9	Laboratory tests 1.	reading lecture notes			
10	Laboratory tests 2.	reading lecture notes			
11	Laboratory tests 3.	reading lecture notes			
12	Sources of errors in analyzes.	reading lecture notes			
13	Interpretation of test results, According to based on test relations which test must be repeated?.	reading lecture notes			
14	Reference range calculation and reporting panic values.	reading lecture notes			
Evaluation Methods		Weight(%)			
Midterm Exam		40			
General Exam		60			

Resources
Klinik Biyokimya Laboratuvarı El Kitabı (Prof.Dr.İdris Mehmetoğlu)Biyokimya (Prof.Dr. Figen Gürdöl ve Evin Ademoğlu), Kolay Biyokimya (Paul C.Engel)