

Vocational School of Health Services / Pathology Laboratory Techniques

2024 - 2025 Academic Year

HOSPITAL LABORATORY PRACTICE I

Syllabus

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
HOSPITAL LABORATORY PRACTICE I	PLT2114262	Fall Semester	2+6	5	12
Prerequisites Courses					
Recommended Elective Courses	none				
Language of Instruction	Turkish				
Course Level	Short Cycle (Associate's Degree)				
Course Type	Required				
Course Coordinator	Lect. Merve ŞENTÜRK				
Name of Lecturer(s)	Lect. SEMİHA MERVENUR EVREN, Lect. Merve ŞENTÜRK				
Assistant(s)	none				
Aim	It aims to recognize and use the devices in the pathology laboratory, to prepare incoming organs for tissue follow-up, and to gain the skills of preparing sections in microtome and cryostat.				
Course Content	This course contains; Security rules in the pathology lab Work rules in the pathology lab, Instruments, machine and glasswares used in the pathology lab, Instruments, machine and glasswares used in the pathology lab, Treatment in pathology lab, Working rules and chemicals used in the macroscopy room, Description used in the macroscopic room Endoscopic biopsy, needle biopsy, skin biopsy, Gall bladder, Implementation automatic and manual tissue tracking, Blocking of the tissues of the different properties, Introduce microtome and working principle, the necessary rules need to be considered, Microtome sectioning, Microtome sectioning, Frozen section and the necessary rules need to be considered in the frozen section, H&E staining, General repeat.				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
Identifies all devices in the pathology laboratory.			16, 17, 6, 9	A, C	
It performs manual and automatic tissue tracking of organs and tissue parts coming to the laboratory.			16, 17, 6, 9	A, C	
Macroscopically samples the tissues and organs that come to the pathology laboratory.			16, 17, 6, 9	A, C	
It uses the cryostat.			16, 17, 6, 9	A, C	
Teaching Methods	16: Question - Answer Technique, 17: Experimental Technique, 6: Experiential Learning, 9: Lecture Method				
Assessment Methods	A: Traditional Written Exam, C: Multiple-Choice Exam				
Lecture Schedule					
Sequence	Topics	Preliminary Preparation			
1	Security rules in the pathology lab Work rules in the pathology lab				
2	Instruments, machine and glasswares used in the pathology lab				
3	Instruments, machine and glasswares used in the pathology lab				
4	Treatment in pathology lab				
5	Working rules and chemicals used in the macroscopy room				
6	Description used in the macroscopic room Endoscopic biopsy, needle biopsy, skin biopsy, Gall bladder				
7	Implementation automatic and manual tissue tracking				
8	Blocking of the tissues of the different properties				
9	Introduce microtome and working principle, the necessary rules need to be considered				
10	Microtome sectioning				
11	Microtome sectioning				
12	Frozen section and the necessary rules need to be considered in the frozen section				
13	H&E staining				
14	General repeat				
Evaluation Methods		Weight(%)			
Midterm Exam		40			
General Exam		60			

Resources
Bancroft's Theory and Practice of Histological Techniques, 7th Edition Usubütün, Alp (2017), Guide to Understanding Pathology and Laboratory, Ankara, Nobel Tıp