
	UNIVERSITY OF BANJA LUKA FACULTY OF MEDICINE				
	UNDERGRADUATE STUDIES				
	Study Programme of	MEDICINE			
Course Unit Name	DIAGNOSTIC METHODS IN PATHOLOGY				
Type of Course Unit	Applied Professional				
Course Unit Code	Course Unit Status	Semester	Class Workload	Number of ECTS	
TO BE DESIGNATED	ELECTIVE	V	1L+1P	2	
Members of Staff	Dr Radoslav Gajanin, full professor, Head of the department; Dr Slaviša Đuričić, associate professor; Dr Aleksandra Salapura, associate professor, Dr Ljiljana Amidžić, assistant professor.				
Eligibility Requirements				Form of Requirements	
Anatomy, Histology and Embryology				These course units must be passed as a requirement for attendance	
Goals of the Course Unit					
<p>The goal of the course unit is to provide students with additional knowledge on diagnostic methods used in pathology. The students will get to know the fundamentals of autopsy diagnostics, macroscopic diagnostics, histological processing of samples and additional methods of processing samples (cytodiagnosics, histochemical diagnostics, immunohistochemical diagnostics, electronic microscope diagnostics, molecular methods of diagnostics).</p> <p>The acquired knowledge and skills will enable students to choose optimal diagnostic methods, depending on the diagnostic dilemma (differentiation).</p>					
Learning Outcomes (knowledge acquired):					
Having passed the exam, students will know the fundamentals of diagnostic methods used in pathology. They will also know which diagnostic method is used for which diseases and in which cases.					
Contents of the Course Unit:					
Autopsies – performance and reporting; Principles of macroscopic diagnostics; Selection of fixatives and processing; Dyeing and fundamentals of microscopic diagnostics; Histochemical and immunohistochemical diagnostic methods in surgical pathology; Immunofluorescence and electronic microscopy in pathology; Flow cytometry; In situ hybridization and Polymerase Chain Reaction – PCR); Cytopathology; Virtual microscopy; Tissue microarray in pathology; Digital pathology and image analysis; Molecular pathology.					
Teaching Methods:					
The classes are given in the form of lectures, interactive practicals (macroscopic practicals, autopsies, histology practicals), seminars, midterms, office hours, and independent student work.					
Literature:					
1. Дај ЕЦ. Хистопатолошке методе и протоколи. Спрингер, 2014. Кумар В, Аббас АК, Астер ЈЦ. Робинсове основе патологије – Интернационално издање. десето издање. Београд: Датастатус, 2021.					
2. Гајанин, Р. и Клем, И. (2004). Приручник за патохистолошке вјежбе за студенте медицине и стоматологије. 1. издање. Бањалука: Д*С.					
Examination Form:					

Pre-Exam Duties		Final Exam		Total Points
Attendance	5	Oral / Written	55	100
Midterm(s)	30			
Seminar paper	10			
Note for the Course Unit:				
Syllabus Designer: Prof. Dr Radoslav Gajanin				