

Study program: Integrated academic studies of pharmacy				
Type and level of the study program: integrated academic studies				
Course title: Histology (PhI-HIST)				
Teacher: Dušan M. Lalošević, Matilda A. Đolai, Ivan Đ. Čapo, Bojana M. Andrejić Višnjić, Aleksandra M. Levakov Fejsa				
Course status: compulsory				
ECTS Credits: 3				
Condition: -				
Course aim: The aim of this course is to gain knowledge and skills necessary for interpretation of medication effects on certain tissues and organs, as well as for experimental and clinical examination of drug effects on certain tissues and organs.				
Expected outcome of the course:				
Knowledge: Students should know:				
1. The basic histological characteristics of the epithelial, connective, muscular and nervous tissues with special emphasis on their vascularization.				
2. The basic types of organ structure of the digestive, respiratory, cardiovascular, urinary, genital, endocrine, immune, nervous and, sensory systems.				
Skills: The student should be able to:				
1. at the level of light microscopy recognize the tissues and organs				
2. recognize the histological structure that deviates from the normal structure and the state in which tissue and organic elements of this structure deviates from the normal				
3. pharmacodynamic effects of certain substances in the normal structure of tissues and organs				
4. results of experimental and clinical research related to histophysiological characteristics of individual organs and organ systems				
Course description				
<i>Theoretical education</i>				
Basic histological characteristics of the organs of digestive, respiratory, cardiovascular, urinary, genital, endocrine, immune, nervous systems and senses. General structural characteristics of organs within one system of organs. Identification of certain tissues in the structure of organs and their stratification. Vascularization of certain tissues and organs, as well as potential drug effects on them.				
<i>Practical education: exercises</i>				
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Literature				
<i>Compulsory</i>				
1. Junqueira's Basic Histology: Text and Atlas, 14th, 13th or older editions. L. C. Junqueira and J. Carneiro - edited by Anthony L. Mescher. The McGraw-Hill Companies.				
2. Histology: A Text and Atlas 7 th or older editions. Ross M, Kaye G, Pawlina W. Wolters Kluwer Health.				
<i>Additional</i>				
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Number of active classes				Other:
Lectures: 30	Practice:	Other types of teaching:	Research related activities:	
Teaching methods				
Student activity assessment (maximally 100 points)				
Pre-exam activities	points	Final exam	points	
Lectures	40	Written	50	
Practices	10	Oral		
Colloquium			
Essay				