

Study program: Integrated Academic Studies in Pharmacy			
Course title: Histology			
Teacher: Dušan M. Lalošević, Matilda A. Đolai, Ivan Đ. Čapo, Bojana M. Andrejić Višnjić, Aleksandra M. Fejsa Levakov, Jelena R. Ilić Sabo, Jelena P. Amidžić			
Course status: compulsory			
ECTS Credits: 3			
Condition: -			
Course aim: The aim of this course is to gain knowledge and skills necessary for identification and distinguishing tissues and organs, as well as knowledge needed for interpretation of medication effects on certain tissues and organs, as well as for experimental and clinical trials 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 structure of organs of digestive, respiratory, cardiovascular, urinary, genital, endocrine, immune, nervous and sensory systems.			
Skills: The student should be able to:			
1. recognize the tissues and organs, at the level of light microscopy			
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. understand a pharmacodynamic effects of certain substances in the normal structure of tissues and organs.			
4. interpret 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 cell; tissue classification; identification of certain tissues in the structure of organs and body structures; general structural characteristics and histological properties of organs of digestive, respiratory, cardiovascular, urinary, genital, endocrine, immune, nervous systems and senses. Vascularization of certain tissues and organs, as well as potential drug effects on them.			
Literature			
<i>Compulsory</i>			
1. Junqueira LC, Carneiro J (edited by Mescher AL). Junqueiras Basic Histology: Text and Atlas. 15th ed. The McGraw-Hill Companies; 2018. 480p.			
2. Ross M, Kaye G, Pawlina W. Histology: A Text and Atlas. 8th ed. Wolters Kluwer Health; 2019. 928p. (For the purposes of learning histology, older editions of the aforementioned literature are also appropriate.)			
Number of active classes	Theoretical classes: 30	Practical classes: -	
Teaching methods			
Student activity assessment (maximally 100 points)			
Pre-exam activities	points	Final exam	points
Lectures	30	Written	70
Practices	/	Oral	/
Colloquium	/	
Essay	/		