Study Programme : BSc in Biology					
Degree level: Bachelor degree					
Course Title: Preparations of animal cells and tissues					
Professor: Vesna Rajković					
Required/Elective Course: ElectiveCourse					
Number of ECTS: 5					
Prerequisites: Courses of: Cell biology, Histology and Embryology					
Course Objective:					
The course introduces practices of permanant microscopic preparation methods and the preparation of tissues for the					
electron microscopic examination.					
Course Outcome:					
Following the successful completion of the course, the student will demonstrate practical skills including:					
-obtaining permanent microscopic preparations independently					
-understanding the purpose of fixation and selection of appropriate fixative according to the aim of the study					
-understanding the processes of dehydration and clearing					
-proper orientation of various tissues during embedding in order to appropriately demonstrate relevant structures					
-use of basic laboratory equipment in histology laboratory (microtome, cryostat)					
-mastering routine staining methods (haematoxylin-eosin, toluidine blue)					
-application of principles of safety in laboratory work					
Course Content:					
Theoretical part -					
Practical part					
Laboratory practice covers: (1) introduction to histological techniques, (2) permanant microscopic preparations: paraffin					
and cryostat protocols, (3) tissue fixation, (4) paraffin embedding, (5) tissue sectioning on rotary microtome and on					
cryostat, (6) staining: clasical and histochemical methods, (7) specimen mounting, (8) fixation and embedding in electron					
mycroscopy.					
Keading List:					
1. Laiosevic D. Microscopic laboratory technique in medicine. WUS Austria, 2005.					
2. Carson F. Histolechnology. A sent-instructional Text. American Society Clinical Pathology, 1997.					
Total hourse					
Locturos:	Prosticals:	Othor: 4		Student research work	
Lectures.	r lacucais.	Ouler. 4		Student research work	
Methods of instruction:					
laboratory practice					
Assessment (maximum number of points 100)					
Requirements points Final exam points					
Active participation in lectures		-	Practical exam		70
Active participation in practicals		20	Oral exam		-
Test(s)		10	-		_
Pre-exam testing			-		-
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