


University of Niš Faculty of Medicine	Study program: INTEGRATED ACADEMIC STUDIES OF MEDICINE ACCREDITATION 2018	
Course: Histology and embryology		
Course head: Prof. dr Goran Radenković		
Course status:	Required	
Semester : I, II	Study year: I	
ECTS: 14	Course code: M-I-4	
Course purpose:		
Acquisition of knowledge about the fundamental principles of structure and organization of the cell, tissue, and organs, and the basis of human development. Students should be able to perform independent microscopic recognition and analysis of normal structure of tissues and organs.		
Course outcome (knowledge, skills, attitudes)		
Identification and structural analysis at the microscopic level of all types of tissues and organs in the human organism, as well as their structural components (cells and elements of the extracellular matrix). Understanding of general principles of development and organization of the human body; relationship of structure and function of organs and organ-systems. Use of the acquired knowledge in further studying, eg. in physiology and pathology (ability for independent analysis of histological preparations and understanding of the processes at the molecular level as disease causes).		
Number of classes of active teaching: 180		
Lectures: 90	Practice: 90	
Course content		
<u>Theoretical teaching</u>		
Organization and basic functions of the cell (membrane system and membrane compartments of the cell; cytoskeleton, specializations of cell surfaces, cell communication with the environment, populations of cells. Tissues and histogenesis (basic tissues – epithelial, connective, muscle, and nervous tissue). Histologic organization of organs and organogenesis, organ systems (cardiovascular, immune, endocrine, respiratory, digestive, urogenital, and nervous; skin and sense organs). General and special embryology.		
<u>Practical teaching</u>		
Basic principles of histologic preparation. Microscopy and learning about the structure of tissues and organs.		
Seminars		
1.	Hepatobiliary system	
2.	Hypothalamo-hypophyseal tract	
3.	Urinary system	
4.	Menstrual cycle	
	Seminar topics are formulated at the beginning of the course from the contents of the practical classes	
Recommended literature:		
1. Avramović V, Lačković V, Mojsilović M, Petrović A. Citologija, Medicinski fakultet, Niš, 2003.		
2. Nikolić I, Rančić G, Radenković G, Lačković V, Todorović V, Mitić D, Mihailović D. Embriologija čoveka, Medicinski fakultet, Niš, 2007.		
3. Anđelković Z., Somer Lj., Avramović V. i sar. Urednik : Anđelković Z. Histologija. Ipressum, Niš, 2009.		
4. Rančić G, Nikolić I. Praktikum za vežbe iz histologije i embriologije, Medicinski fakultet, Niš, 2007.		
Teaching methods:		
<ul style="list-style-type: none"> ▪ Theory: lectures 		
<ul style="list-style-type: none"> ▪ Practice: microscopy practice 		
<ul style="list-style-type: none"> ▪ Consultations 		
<ul style="list-style-type: none"> ▪ Seminars 		
<ul style="list-style-type: none"> ▪ Pre-exam practice 		

Required previously passed exams:
None
Grade (max. 100 points)
Pre-exam obligations
<ul style="list-style-type: none">▪ Activity at classes: 3 – 8 points▪ Seminar papers: 0 – 2 points▪ Tests: 15 – 30 points▪ Practical exam: 12 – 20 points
Final exam
<ul style="list-style-type: none">▪ Oral exam: 20 – 40 points