	UNIVERSITY OF BANJA LUKA FACULTY OF MEDICINE			
	UNDERGRADUATE STUDIES			
	Study Programme of	**MEDICINE**		
Course Unit Name	**Histology and Embryology**			
Type of Course Unit	**General Education**			
Course Unit Code	**Course Unit Status**	**Semester**	**Class Workload**	**Number of ECTS**
TO BE DESIGNATED	COMPULSORY	I and II	I: 2L+4P, II: 2L+4P	14
Members of Staff	Prof.dr Vesna Ljubojević; Sanja Jovičić, MD, senior teaching assistant; Maja Barudžija, MD, assistant			

Eligibility Requirements	**Form of Requirements**
There are no requirements for registration, attendance and examination	n/a

Goals of the Course Unit

One of the Goals of the Course Unit is for students to acquire knowledge on the structural organization of cells, tissues and organs, on the fundamental principle of their integration into larger functional units, on their origin and intrauterine development. Another is for them to acquire knowledge necessary for: Recognizing and differentiating specific tissues and organs, including their ultrastructural characteristics, recognizing structures which deviate from normal morphological characteristics of the tissues and organs, differentiating individual stages in the development of the human embryo and fetus, and describing basic disorders in the development of individual organs and organ systems.

Learning Outcomes (knowledge acquired):

The students will be trained to use light microscopy to differentiate among four basic tissue types and all subtypes of tissues, and register changes that do not match preserved tissues; to use light microscopy to differentiate among all the organs covered within practical classes, show their elements which are relevant for the structure and differentiation from other organs; to view electronic microscopic images and distinguish all cell organelles. Also, they will be able to differentiate embryonic tissues and stages in the development of individual organs. After completing the classes, the student will be able to differentiate normal cell and tissue functions, along with pathological changes at the microscopic level.

Contents of the Course Unit:

Introduction to histology and embryology – histological methods, cytology, epithelial tissue, connecting tissue, muscle tissue, nerve tissue, general embryology, circulatory system, defense system, endocrine system, respiratory system, digestive system, urinary system, female reproductive system, male reproductive system, nervous system, eye and ear, skin

Teaching Methods:

The classes are given in the form of lectures, practicals, seminars, midterms, office hours, and independent student work

Literature:

1. Mescher AL. Junqueira basic histology: text and atlas. 16th ed. New York: McGraw-Hill Medical, 2021.
2. Gartner PE, Hiatt JL. *Concise Histology E-Book*. Elsevier Health Sciences, 2010.
3. Sadler TW.*Langman's medical embryology*. Lippincott Williams & Wilkins, 2018.
4. Power Point presentations and teaching material

Examination Form:

Pre-Exam Duties		Final Exam		Total Points
Attendance	3-8	Practical exam	12-20	100
Colloqium of practical part	5-10	Oral exam	16-30	
Seminar paper	0-2			
Colloqium 1	7-15			
Colloqium 2	8-15			
Note for the Course Unit:				
Syllabus Designer: Prof. dr Vesna Ljubojević				