UNIVERSITY OF EAST SARAJEVO



Faculty of Medicine

Study program:medicine



	S N	Study program:medicine					ARBA SEBA			
		Integrated academic studies				l study year		A RHIMHCKU DAKYTIKE	g	
Full subject title	III subject title HISTOLOGY AND EM									
Department		Departmer	nt for preclin	cal subjects	, Facul	ty of Medicine in	Foča			
Subject code			Subject status			Semester		ECTS		
ME-01-1-002-1;	ME-01-1-002-1; ME-01-1-002-2			compulsory		1,11	I,II			
Professor/ -s				ssor. Milica Labudovic, PhD						
Associate/ -s				Jelena Vladicic-Masic, MD; assistant. Snezana Zecevic, M						
Number of lectu	week		load (per Individ		ual student workload (in hours per semester)			Coefficient of workload		
L	E		SP	L		E	SP	S _o		
3	3		0	3*15*		3*15*1	0*15*1	1		
3	4		0	3*15*	1	4*15*1	0*15*1	1		
total teaching work	total teaching workload (in hours, per semester) 3*15+3*15+0*15 = 90 3*15+4*15+0*15=105 total student workload (in hours, per semester) 3*15*1+3*15*1+0*15*1 = 90 3*15*1+4*15*1+0*15*1=105									
		Total su	bject worklo	ad (teaching	+ stud	ent): 195 + 195	= 390 hours			
Learning outcomes	2. u 3. T orga ano 4. m and 5. o	 knowledge of the normal structure of cells, tissues and organs in the light microscopy and at the level of electronic microscopy; understanding of the correlation between the morphology and function of cells of tissues and organs; The introduction of an embryological basic mechanisms of cellular differentiation, tissue development organ and understanding of the mechanisms for the formation of the morphogenetic developmental anomalies; mastering the technique of microscopy of histological preparations in order to study the normal tissue and organ structure; obtaining information on the significance of particular histological structures for clinical practice 						elopment, opmental		
Preconditions		precondition								
Teaching method	s Lec	tures, exerci	ises, semina	rs, colloquiu	ım, con	sultations				
Subject content per week	1.In 2. M 3. N 4. E 5. C 6. C 7. C 8. B 9. M 10. 11. 12. 13. 14. 15. 16. 17. C 18.	Lectures: 1. Introductory class 2. Modification of the cell membrane 3. Nucleus 4. Epithelial tissue 5. Connective tissue 6. Classification of connective tissue 7. Cartilage 8. Blood 9. Muscular tissue 10. Nervous tissue 11. Nervous system. 12. Cardiovascular and lymphatic vascular system. 13. Immune system and lymphatic organs. 14. Endocrine system. 15. Respiratory system. 16. Digestive system 17 Gastrointestinal tract: general structure of the digestive tube 18. Liver 19. Urinary system.								

 $^{^{1}\}text{Coefficient}$ of student workload S_{\circ} is calculated as it follows:

20. The eye. Eye ball 21. The ear. External ear

a) for the study programs not going through the licensing process: S₀ = (total workload in semester for all the subjects 900 hrs – total teaching workload L+E in semester for all the subjects 870 hrs)/ total teaching workload L+E in semester for all the subjects _____ hrs = ____. Consult form content and its explanation.
b) for the study programs going through the licencing process, it is necessary to use form content and its explanation.

- 22. The skin. Epidermis
- 23. Male reproductive system.
- 24. Female reproductive system.
- 25. General Embryology.
- 26. Embryonic stage of development
- 27. Special Embryology
- 28. Head and neck development and pharyngeal system.
- 29. Development of the urogenital system
- 30. Seminars: 1. Contraception and contraceptive methods; 2. Stem cells and cloning of mammals. Test: male and female reproductive system and embryology.

Exercises:

- 1. Microscopy: parts of the microscope, working on microscope.
- 2. Shapes of the nuclei
- 3. Ultrastructure of the cell.
- 4. Epithelial tissue
- 5. Pseudostratified two or three-row epithelium, urothelium
- 6. Stratified squamous keratinized epithelium, Stratified squamous non-keratinized epithelium, exocrine and endocrine gland (pancreas).
- 7. Connective tissue
- 8. The elastic connective tissue, fibrotic (regular and irregular) connective tissues, adipose (white and brown) tissue.
- 9. Hyaline cartilage, elastic cartilage, bone, intramembranous and endochondral ossification.
- 10. Blood: peripheral blood smear
- 11. Hematopoiesis: Bone marrow smear.
- 12. Muscle tissue: skeletal (in the longitudinal and transverse section), cardiac and smooth muscle tissue..
- 13. Nervous system: cerebrum, cerebellum, spinal cord.
- 14. Spinal ganglion, vegetative ganglion, peripheral nerve, Vater-Pacini corpuscles.
- 15. Кардиоваскуларни систем
- 16. Имунски систем
- 17. Ендокрини систем
- 18. Parathyroid, adrenal gland, endocrine pancreas, DNES.
- 19. Respiratory system: epiglottis, trachea, lungs
- 20. Digestive system: tooth, serous, mucous and seromucous gland.
- 21. Tongue, soft palate, esophagus, stomach.
- 22. Duodenum, jejunum, ileum, apendix, colon
- 23. Liver, gallbladder, pancreas.
- 24. Urinary system: kidney, urinary bladder
- 25. The eye: the cornea, the angle of the eye. Ear: inner ear. Skin and breast (during rest and lactation).
- 26. Male reproductive system: testis, fetal testis, epididymis, d. deferens, prostate.
- 27. Female reproductive system: a girl ovary, cat ovary, a yellow and white body.
- 28. Fallopian tube, uterus in proliferative and secretion phase, cervix, vagina
- 29. Embryology: placenta, umbilical cord.
- 30. Embryo preparation

Compulsory literature						
Author/s	Publication title, Publisher	Year	Pages (from-to)			
Anthony L. Mescher.	Junqueiras Basic Histology - Text and Atlas.McGrawHill, New York,	2016.				
Sadler T.W. Langmans	Medical Embryology.Lippincott - Williams and Wilkins, Baltimore,	2006.				
Additional literature						

Additional interacture						
Author/s	Publication title, Publisher	Year	Year Pages (from-to)		es (from-to)	
Grading policy				into	Doroontogo	

	Grading policy	Points	Percentage
Student responsibilities, types of student assessment and grading	Pre-exam activities		
	lecture/exercise attendance	14	14%
	seminar paper	6	6%
	colloquium	30	30%
	Final exam		
	practical test	10	10%
	written exam	40	40%
	TOTAL	100	100 %
Certification date	December 13 th 2018		