1.	Subject	HISTOLOGY AND EMBRYOLOGY (2)				
2.	Code	OM 122				
3.	Study program	Undergraduate general medicine program				
4.	Institution (Unit, Institute, Chair,	Institute of Medical Histology and				
	Department)	Embryology UKIM – Faculty of medicine				
5.	Educational degree (first or second cycle)	Integrated cycle				
6.	Academic year / semester	First / 7. Number of 6				
		second ECTS credits				
8.	Professor-Lecturer in charge	Prof. Liljana Milenkova M.D. PhD				
9.	Prerequisites	None				
4.0						

10. Teaching goals and study program (competencies):

- 1. Acquiring skills of viewing histology microscopic slides and precise identification of structural components of tissues and organs 2. Acquiring ability of comprehension of:
- specific combination of tissues in each organ;
- crucial components of organs;
- specific structural properties determining basic organ function;
- role of additional (supporting) structural and functional components.
- 3. Acquiring ability to present comprehension of origin and organ development;
- 4. Acquiring basic ability to make causal-consequential connection between potential disruption of organ development and type of resulting congenital anomaly.

11. **Brief content of study program**

Theoretical and laboratory practice classes:

Microscopic structure, embryonic development, concept of origin of congenital malformations of organ systems

- gastro-intestinal,
- urinary,
- genital,
- respiratory,
- endocrine,
- central nervous system,
- skin
- sensory organs.

12.	Learning methods									
	- practic	 Through visual presentation during accentuated concept lectures, studygoal oriented learning, and interactive teaching. Through power point, video presentations and other aids during laboratory practice classes. Through individual examination of microscopic slides. Through student presentations and open discussions during seminars. Through learning from recommended literature and selected files available on the web site of the Institute of histology and embryology. 								
13.	Total	number of hours			180					
14.	Distri	bution of the avai	lable tin	ne						
15.	Forms of educational		15.1	Theory	lectures:	30				
	activi	ties	15.2	Laboratory practice classes:		45				
16.	Other	Other forms		Project assignments						
			16.2	Individu	ıal tasks	18				
			16.3	Home studing		78				
	Asses	ment of knowlwdg	ge							
	17.1 Цонтинуоус Ассессмент:				 Gastrointestinal system, Written: 8,4-14 Microscopic slides 2,4 - 4 Urinary and male & female genital systems, Written: 13,2-22 Microscopic slides 2,4 - 4 					

	Final exam			Skin, respiratory system, endocrine			
				system,	46		
				C.N.S., eye,	ear;		
				1.Practical-l	Microscopic slides 4	,8 - 8	
				2.Oral:			
				38		22,8-	
	17.2	17.2 Seminars / projects (ora or written presentation) 17.3 Active participation			points	min - max	
	17.3			points			
				Theoretical c	course	1-3	
				Practical cou	ırse	4-7	
18.	Knowledge assessment criteria		Up to 59 points			5 (five) F	
	(point	ts/grade)	fı	rom 60 to 68		6 (six) E	
			fı	rom 69 to 76		7 (seven) D	
			fı	rom 77 to 84		8 (eight) C	
			fı	rom 85 to 92		9 (nine) B	
			fr	om 93 to100		10 (ten) A	
19.		ria for obtaining a	Conditional criteria for assesment of knowledge:				
	_	ture and taking nal exam	Criteria for signature:				
			activitie	e active participation in all the teaching es including continuous assesments. Criteria esment on final exam:			
				s which have successfully pass the continuous ent, apply for final exam.			
			In case t	the student has not achieved minimum points			
			(60%) o	on each continual assessment, he/she applies to			

				take t	he complete final exam.				
				Complete final exam: The final exam is a combination of both written examinations (segments of the continuous assessments with less of 60%) and final examination.					
				The grade for the entire exam is obtained according to the table of grades and based on the sum of the points gained in all the activities including the continual assessment.					
20.	Langu	uage		Maceo	lonian				
21.		quality	evaluation y of		imous student's evaluation	•			
22.	Mand	latory l	iterature						
		Basic							
			Author	ſ	Title	Editor	Year		
	22.1	1	The stuff of the Department of his-tology and embryo-logy		Study quide for Histology & embryology (2)	On the web site of the Medical faculty of Skopje	2017		
		2	Kostovska Milenkova	N,	Histoloska gradba i embrionalen razvitok na organskite sistemi	Medicinski fakultet, Skopje	2013		
					(Histology and embryonicdevelopme				
					nt of organ systems)				
		3	The stuff of Department his-tology embryo-log	of and	Selected files (Power Point presentations) available on the web site of the Med. Fak.	Continously revised			
	22.2	Aditional literature							
	<i>LL.L</i>		Author	<u> </u>	Title	Editor	Year		

1	Michael H. Ross, Wojciech Pawlina	Histology, A text and atlas: (original version and translation in macedonian)	original version 5th ed.	translat ion in macedo nian
2	J.K.Junqueira, H. Carneiro	Basic histology. Text and atlas;	original version 11th ed.	2009 translat ion in macedo nian
3	Keith L. Moore, T.V.N. Persaud	The developing human. Clinically oriented embryology (original version and translation in mace-donian)	original version 8th ed.	2010 translat ion i n macedo nian
4		www.biolucida.co m\ Medical education edition		