

Syllabus 2017/2018															
Description of the course															
Module/Course			His	Histology with Embryology						Group of specific learning					
											out	tcomes			
											Gro	oup	Grou	ıp nar	ne
											coc	le	Mor	pholog	gical
											Α		scier	nce	
Faculty			Dei	Dentistry											
Major			der	dentistry											
Specialties			-	-											
Level of studies			Uni	Uniform magister studies X*											
			1 st	degree	studie	es									
			2 nd	degree	e studi	es									
			3 rd	degree	e studio	es									
			pos	postgraduate studies											
Form of studies			X fu	ull-time	e Xi	oart-tir	ne								
Year of studies			I						Se	meste	r	Winte	er		
												XSum	mer		
Type of course		Хо	X obligatory												
		li	limited choice												
			ti	tree choice / elective											
Course			Xm	X major basic											
Language of instruction			Р	Polisti Alengiish other											
* mark with an X					N		<u> </u>								
Number of nours															
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Unit teaching the			sses (- not	(CC)	sses (llated C)	es wit		es – r	ge Cc	tion c	ctice	dent's	
course	(T)	(SE)	m cla	- sses	asses	y Cla	Simu s (CS	Classe		Class CM)	ngua	duca	al Prae	/ (Stu	3 (EL)
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	Lect	Sem	Audi	Majo (MC	Clini	Labo	Class	Prac	(PCP	Spec	Fore	Phys (PE)	Voca	Self- worl	E-lea
Winter Semester	•	•									•				
Histology and															
Embriology															
Department									-						
Summer Semester	I	I	I	1	I	1	L	1	1		1	I	1	1	L
Histology and	5	10		35											
Embriology Department															



UNIWERSYTET MEDYCZNY IM. Piastów Śląskich we Wrocławiu

Appendix 5 to Resolution No. 15630 of Senate of Wroclaw Medical University of 30 March 2016

TOTAL per year:	I	11		I		1	I	I	I	1	1	I	1	
	5	10		35										
Educational obje C1. During the c • the prin	ectives (r ourse of ciples o	max. (f <u>histo</u> f the	6 item ology s basic t	s) studen echnic	ts sho ues u	uld bed sed in t	come a the mo	acquaii proholo	nt: ogical s	studi	es.			
 the orga structur classific histolog regulate C2. During the orga with prenate embrionic, with developme 	anization re and fu ation, ch ical orga their fu course c tal part embryc opment nt of he	n of th unctionaract anizat unction of <u>emi</u> of th onic a of pl ead a	he cell on of so teristic tion of ons. <u>bryolo</u> he hur and fe haryn ind ne	mode elected cs, orig organ egy stud nan de tal de geal a eck	l with d, impo in, his s and s evelop velop ppara	cell org ortant tologic system should oment ment) tus an	ganelle specia al orga is and becon (inclu nd birt	es, thei lized ca anization their ro ne acq iding a h defe	r struc ells, on and ole and uaint: all stag	ture role d the ges o socia	and fun of the t basic m of huma ated wi	ctions issues echan n pre- th the	, isms th -	nat
Education resu	lt matrix	(for r	nodule	e/cours	e in re	lation	to veri	ficatio	n meth	ods c	of the int	endec	l educa	tion
				res	sult an	d the t	ype of	class						
Number of course education result	Number major educatio result	of on	Stuc mod	lent who Iule/cou	o compl rse kno	etes the ws/is ab	le to		Metho of inte results summ	ods of ended s (forn arising	verificatic educatior ning and g)	on Fo n ol <i>*</i> * <i>ak</i>	orm of di ass fenter the obreviatio	dactic n
W 01	AW1		der hur cell esp	nonstr nan or s, tissu ecially	ates th ganisn Ies, or stoma	ne knov n's stru gans ai atogna	wledge uctures nd syst thic sy	e of s: cems, stem	Oral writt exam	respo en ninati	onse, on	L,	MC	
W 02	AW4		des wh esp	cribes ole org ecially	the or anism the m	gans' a 's deve asticat	and the elopme tory	e ent,	Oral Writt	respo cen re	onse esponse	L,	MC	

		especially the masticatory complex development	Final test	
U 01	AU 1	describes concisely the functional significance of the particular organs and systems	Participation in the discussion of problem	L, MC
U 02	A U 2	The student recognizes in images from optical or electron microscope histological structures corresponding to the organs, tissues, cells and cellular	Oral response, written examination, proper drawing	MC



		structures, shall describe and interpret their structure and the relationship between structure and function	preparation, practical examination	
K 01	K01	understands the need for learning throughout life	direct observation of student attitudes	L, MC
К02	K02	able to work in a group assuming different roles in it	direct observation of student attitudes	L, MC

** L - lecture; SE - seminar; AC – auditorium classes; MC – major classes (non-clinical); CC – clinical classes; LC – laboratory classes; SCM – specialist classes (magister studies); CSC – classes in simulated conditions; FLC – foreign language course; PCP practical classes with patient; PE – physical education (obligatory); VP – vocational practice; SS – self-study, EL – E-learning .

Please mark on scale 1-5 how the above effects place your classes in the following categories: communication of knowledge, skills or forming attitudes:

Knowledge: 5

Skills: 4

Social competences: 3

Student's amount of work (balance of ECTS points)					
Student's workload	Student Workload (h)				
(class participation, activity, preparation, etc.)					
1. Contact hours:	50				
2. Student's own work (self-study):	100				
Total student's workload	150				
ECTS points for module/course	5				
Comments					

Content of classes (please enter topic words of specific classes divided into their didactic form and remember how it is translated to intended educational effects)

Histology:

- Histological techniques, microscopic structure and function of cells.
- Epithelial tissue: epithelia and glands, specialized surface of cells, intercellular connections.
- Connective tissue: supporting cells family, extracellular matrix, cartilage, bone, and their development.
- Muscular tissue: contractile cells, their function.
- Blood: blood cells, hemopoiesis.
- Cardiovascular system (the heart and blood vessels).
- Immune system: immune cells, structure and function of the immune system.
- The alimentary tract: oral cavity and its contents, transport and digestive part.

Lectures :

- Introduction to the cell. Epithelial tissue: epithelia and glands, specializations of cells surface, intercellular connections.
- Connective tissue: supporting cells family, extracellular matrix





- Muscles skeletal, cardiac, smooth
- Digestive tract oral cavity, lip, tongue, tooth, tooth development

Seminars - Embriology:

- Gametogenesis: meiosis, oogenesis, spermatogenesis
- The 1st week of development: ovulation to implantation
- The 2nd 3rd week: germ disc and germ layers
- The 3rd 8th week: organogenesis, embryonic period, fetal period Head and neck development (pharyngeal apparatus)

Practical classes -

- 1.
- 2.
- 3.

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Other

- 1.
- 2.
- 3.

etc. ...

Literatura podstawowa:

- 1. Basic Histology. L. Carlos Junqueira, Jose Carneiro, Robert O. Kelly
- 2. Human Histology. Alan Stevens, James Lowe
- 3. Langman's Medical Embriology. T.W. Sadler; Lippincott Williams & Wilkins

Literatura uzupełniająca I inne pomoce:

- 1. Histology and Cell Biology: An Introduction to Pathology. Abraham Kierszenbaum
- 2. Histology: a text and atlas. Michael H. Ross, Gordon I. Kaye, Wojciech Pawlina
- 3. Exercise notebook for medicine and dentistry student (ed. Maciej Zabel). Elsevier Urban & Partner, Wrocław 2010

Preliminary conditions (minimum requirements to be met by the student before starting the module/course)

Basic knowledge of the structure and function of cells, tissues and organs.

Conditions to receive credit for the course (specify the form and conditions of receiving credit for classes included in the module/course, admission terms to final theoretical or practical examination, its form and requirements to be med by the student to pass it and criteria for specific grades)

Conditions to receive credit for the course:

1. Oral or written credit from each class (allowed: no credit - 3 exercises)

2. Test from the general histology: written, 10 open questions. To complete 51% correct answers is required.

3. Embriology – multiple choice test, 30 questions, 16 correct answers is required to pass



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Grade:	Criteria – not applicable
Very Good	
(5.0)	
Good Plus	
(4.5)	
Good	
(4.0)	
Satisfactory Plus	
(3.5)	
Satisfactory	
(3.0)	

Name and address of module/course teaching unit, contact: telephone and e-mail address

Department of Histology and Embryology

Wroclaw Medical University

ul. Chalubinskiego 6a, 50-368 Wroclaw

tel.: (71) 784-13-54(55), fax: (71) 784-00-82

e-mail: justyna.kosek@umed.wroc.pl

Coordinator / Person responsible for module/course, contact: telephone and e-mail address

Marzenna Podhorska-Okolow MD, PhD, Prof.

e-mail: marzenna.podhorska-okolow@umed.wroc.pl

tel. 71 784 16 70

List of persons conducting specific classes: full name, degree/scientific or professional title, discipline, performed profession, form of classes.

- 1. Urszula Ciesielska PhD (adiunct) lectures, classes
- 2. Christopher Kobierzycki MD, PhD (adiunct)- lectures, classes
- 3. Sylwia Borska PhD (adiunct) seminars

Date of Syllabus development

Syllabus developed by

27.06.2017

Urszula Ciesielska PhD



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Signature of Head of teaching unit

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Signature of Faculty Dean

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