					Syllab	us 20	18/201	9						
				De	escript	tion of	the cou	ırse						
Module/Course							(Group of detailed education results					lts	
				The clinical usage of					Group code			Group name		
				histo	ologica	al met	hods		Α			_	ical Sci	
									В		Scien	Scientific Basis of Med		
Faculty				dicine										
Major				medicine										
Specialties			Not	Not applicable										
Level of studies			Uni	Uniform magister studies X *										
			1 st (1 st degree studies □										
			2 nd	2 nd degree studies □										
			3 rd	degree	studi	es 🗆								
			pos	postgraduate studies □										
Form of studies			X f	ull-time	e X	part-ti	ime							
Year of studies				II – IV			Se	Semester		X Winter				
					-	· IV					X Summer			
Type of course			0	bligato	ıry									- 4
of man			□ li	☐ limited choice										
			X free choice / elective											
Course			☐ major X basic											
Language of instruc	tion		□ Polish X English □ other											
* mark 🗆 with an 🖰	X		-											
					Nur	nber o	f hours							
					Forn	n of ec	lucation	1	-					
T T														
				<u>a</u>				tlent	ster	ELC	atory		5	
			(AC)	ot dinical		()	pa	Practical Classes with Patlent (PCP)	magister	Course (FLC)	Physical Education obligatory (PE)	(VP)	Self-Study (Student's own work)	
Unit teaching the			asses	l no	2) \$	ssses	ulate SC)	es wi	ses –		ation	actice	ndent	
course	(E)	(SE)	E G	asses	lasse	Ğ	Sim Is (CS	Class	Clas	angu	gno	al Pra	y (Stu	g (EL
34	Lectures (L)	Seminars	Auditorium classes (AC)	Major Classes – no (MC)	Clinical Classes (CC)	Laboratory Classes (LC)	Classes in Simulat Conditions (CSC)	ctical	Specialist Classes studies (SCM)	Foreign language	sical	Vocational Practic	-Stud k)	E-learning (EL)
	Lec	Sen	Aud	Maj	- F	Lab	Con	Practi (PCP)	Spe	Fore	Phy (PE)	Voc	Self-St work)	E-le
Winter Semester		W							177					
Department of Human		Г												
Morphology and Embryology			30											
Summer Semester														
Department of Human Morphology and Embryology			30											
TOTAL per year:														
Department of Human Morphology and Embryology			30											

Educational objectives (max. 6 items)

- C1. Draw the attention of students who already have basic information in the field of "Histology with cytophysiology" to the possibility of practical application this knowledge.
- C2. The combination of data on the structure and function of specific tissues and organs to their usage in diagnostic and therapeutic process.
- C3. Gain the knowledge about the collection and protection of tissue material.
- C4. Guide to basic methods of preparation of biological material.

Education result matrix for module/course in relation to verification methods of the intended education result and the type of class

	Number of		Methods of verification	le cui
Number of course education result	major education result	Student who completes the module/course knows/is able to	of intended education results (forming and summarising)	Form of didacticless **enter the abbreviation
K01.	B.W25.	The student knows and understands the clinical implications resulting from the morphology and function of selected tissues and organs in internal medicine and surgical specialties.	Active participation in discussion	AC
К02.	B.W34.	The student knows and understands the methodology and the use of routine (e.g. hematoxylin and eosin staining, H&E) and specialized techniques (e.g. immunohistochemistry (IHC), immunofluorescence (IF), electron microscopy(ME)).	Active participation in discussion	AC
S01.	A.U2.	The student is able to properly collect material for basic and advanced morphological studies.	Active participation in discussion	AC
S02.	A.U2.	The student can conduct a preliminary preparation of biological material for specific research methods.	Active participation in discussion	AC
S03.	A.U2.	The student can distinguish in the microscopic evaluation, the basic types of tissues and determine whether their microarchitecture has correct character.	Active participation in discussion	AC

^{**} 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: 4

Skills: 2

Social competences: 2

Student's amount of work (balance of ECTS points) 1,5	
Student's workload	Student Workload (h)
(class participation, activity, preparation, etc.)	
1. Contact hours:	30
2. Student's own work (self-study):	9
Total student's workload	39
ECTS points for module/course	1,5
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)

Lectures: ---

Seminars ----

Practical classes

Exercise 1 - (3 hours). Organizational aspects. Discussion of basic and advanced research techniques. Rules for the proper preparation of biological material. Interpretation of the results obtained.

Exercise 2 - (3 hours). Histological overview of tissues and organs in terms of clinical application available techniques. Analysis of microscopic and digitized samples.

Exercise 3 - (3 hours). Histological overview of tissues and organs in terms of clinical application available techniques. Analysis of microscopic and digitized samples.

Exercise 4 - (3 hours). Histological basis of selected disease entities – lung cancer. Analysis of microscopic and digitalized samples.

Exercise 5 - (3 hours). Histological basis of selected disease entities – colorectal cancer. Analysis of microscopic and digitalized samples.

Exercise 6 - (3 hours). Histological basis of selected disease entities — breast cancer. Analysis of microscopic and digitalized samples.

Exercise 7 - (3 hours). Histological basis of selected disease entities – gynecological malignancies. Analysis of microscopic and digitalized samples.

Exercise 8 - (1.5 hour). Final test. Discussion of the results. Summary of the subject.

Basic literature (list according to importance, no more than 3 items)

- 1. Wheater B. Young, J.S. Lowe, A. Stevens, J. W. Histology. Textbook and atlas. Elsevier, 2010.
- 2. V. Kumar, R. Cotran, S. Robbins. Pathology Robbins. Elsevier, 2005.

Additional literature and other materials (no more than 3 items)

- 1. Stacey E. Milles. Histology for Pathologists. Lippincott Williams & Wilkins, 2007.
- 2. M. Zabel. Histology. Textbook for students of medicine and dentistry. Elsevier, 2000.2.

Didactic resources requirements (e.g. laboratory, multimedia projector, other...)

Classroom with a computer and multi-media projector and whiteboard with markers. Histology laboratory with equipment and reagents necessary for the preparation of biological material.

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

Conditions to receive credit for the course (specify the form, criteria 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).

- Active participation in the discussion ending each exercise.
- Presence on all exercises. Each absence must be made up, including rector days and dean's hours
 preparation of a presentation on a given topic.
- The subject ends with a test with grade. Test in the form of "fill in the gaps" for 100 missing words. Passing threshold at 60% of correct answers.

Grade:	Criteria for course	
Very Good (5.0)	96 – 100 %	
Good Plus (4.5)	86 – 95 %	
Good (4.0)	76 – 85 %	75
Satisfactory Plus (3.5)	66 – 75 %	
Satisfactory (3.0)	60 – 65 %	

Name of unit	Division of Histology and Embryology, Department of Human
teaching course:	Morphology and Embryology
Address	Chalubinskiego 6a; 50-368 Wroclaw
Phone	+48 71 784 1354 (office)
E-mail	justyna.kosek@umed.wroc.pl

Person responsible for course:	Prof. Marzenna Podhorska-Okolow, MD, PhD	
Phone	+48 71 784 1670	
E-mail	marzenna.podhorska-okolow@umed.wroc.pl	

List of persons conducting specific classes:	degree/scientific or professional title	Discipline	Performer profession	Form of classes
Christopher Kobierzycki	IMI) Phi)	Histology, Embryology, Obstetrics and Gynecology	Doctor, Academic	Auditorium classes

Date of Syllabus development

Syllabus developed by

11/07/2018r.

Christopher Kobierzycki, MD PhD

Signature of Head of teaching unit

Uniwersytet Medyczny we Wrocławiu ZAKŁAD HISTOLOGII I EMBRIOLOGII

prof. dr. hah. Pintr Dzieniel

Signature of Faculty Dean

orof, dr.hab, Andrzej Hendrich