



Syllabus for academic year: 2020/2021														
Training cycle: Cykl kształcenia: 2020/2021 – 2025/2026														
Description of the course														
Module/Course	Human embryology						Group of detailed education results							
							Group code- A	Group name Morphological Science						
Faculty	Medicine													
Major	medicine													
Unit realizing the subject	Histology and Embryology Division													
Specialties	not applicable													
Level of studies	Uniform magister studies X* 1 st degree studies <input type="checkbox"/> 2 nd degree studies <input type="checkbox"/> 3 rd degree studies <input type="checkbox"/> postgraduate studies <input type="checkbox"/>													
Form of studies	X full-time <input type="checkbox"/> part-time													
Year of studies	I					Semester	<input type="checkbox"/> Winter							
							X Summer							
Type of course-	X obligatory <input type="checkbox"/> limited choice <input type="checkbox"/> free choice / elective													
Course-	X major <input type="checkbox"/> basic													
Language of instruction	<input type="checkbox"/> Polish X English <input type="checkbox"/> other													
* mark L with an X														
Number of hours														
Form of education														
	Lectures (L)	Seminars (SE)	Auditorium classes (AC)	Major Classes – not clinical (MC)	Clinical Classes (CC)	Laboratory Classes (LC)	Classes in Simulated Conditions (CSC)	Practical Classes with Patient (PCP)	Specialist Classes – magister studies (SCM)	Foreign language Course (FLC)	Physical Education obligatory (PE)	Vocational Practice (VP)	Self-Study (Student's own work)	E-learning (EL)
Winter Semester														
Direct (contact) education														
Online learning (synchronous)														



Distance learning (asynchronous)																		
Summer Semester																		
Direct (contact) education																		
Online learning (synchronous)	30																	
Online learning (asynchronous)																		

TOTAL per year:																		
Direct (contact) education																		
Online learning (synchronous)	30																	
Online learning (asynchronous)																		

Educational objectives (max. 6 items)

C1. Acquaintance of the students with normal human embryonic development and fetal development.

C2. Acquaintance of the students with the development of organs and systems and the mechanisms organ anomalies formation.

C3. Presentation of causes, types and mechanism of congenital anomalies formation with emphasis on their genetic and environmental background.

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

Number of course education result	Number of major education result	Student who completes the module/course knows/is able to	Methods of verification of intended education results (forming and summarising)	Form of didactic class <i>**enter the abbreviation</i>
W01	A.W6.	knows the stages of human embryo development	oral response, presentation	SE
W02	A.W6.	describes the function of fetal membranes and placenta	oral response, presentation	SE
W03	A.W6.	describes the stages of development of individual organs	oral or written response, presentation	SE
W04	A.W6.	explains the impact of harmful factors on embryo and fetal development (teratogenic)	oral response, presentation	SE
W05	A.W1.	knows the embryological nomenclature in English	oral response, presentation	SE
U01	A.U5.	uses embryological terminology in written and spoken form	oral or written response, discussion, presentation, test	SE

** 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: 3

Student's amount of work (balance of ECTS points)	
Student's workload (class participation, activity, preparation, etc.)	Student Workload (h)
1. Contact hours:	
2. Online learning hours (e-learning):	30
3. Student's own work (self-study):	9
Total student's workload	39
ECTS points for module/course	2
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	
<ol style="list-style-type: none"> 1. Molecular basis of development 2. Gametogenesis: meiosis, oogenesis, spermatogenesis 3. 1st week: from ovulation to implantation 4. 2nd-3rd week: germ disc and germ layers 5. 3rd-8th week: organogenesis, embryonic period 6. 9th week to birth: fetal period 7. Fetal membranes and placenta (8. Development of pharyngeal apparatus (head and neck) 9. Development of respiratory and digestive systems 10. Development of cardiovascular system 11. Development of muscular, skeletal and integumentary system 12. Development of integumentary system and teeth 13. Development of urogenital system 14. Development of nervous system 15. Birth defects 	
Practical classes -	
Other -	
Basic literature (list according to importance, no more than 3 items)	
1. Langman's Medical Embriology. T.W. Sadler; Lippincott Williams & Wilkins	
Additional literature and other materials (no more than 3 items)	
1. The Developing Human. Clinically Oriented Embryology. Keith L. Moore, T.V.N. Persaud; Saunders Elsevier.	
2. Before we are Born. Essentials of Embryology and Birth Defects. Keith L. Moore, T.V.N. Persaud, Mark G. Torchia; Saunders Elsevier	
Didactic resources requirements (e.g. laboratory, multimedia projector, other...)	
Laptop with appropriate software, internet access, camera	
Preliminary conditions (minimum requirements to be met by the student before starting the	



<p>module/course) -</p> <p>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 met by the student to pass it and criteria for specific grades)</p> <p>The course ends with credit of semester (without an examination). Conditions for subject completion is to prepare presentations from each topic and the final test of the whole material. Form of the test written, 30 multiple choice questions. For credit are required 16 correct answers (16 points). Each absence must be made up, including rector's days or dean's hours.</p>

Grade:	Criteria (only for courses/modules ending with an examination)
Very Good (5.0)	28-30 points
Good Plus (4.5)	25-27 points
Good (4.0)	22-24 points
Satisfactory Plus (3.5)	19-21 points
Satisfactory (3.0)	16-18 points
	Criteria (only for courses/modules ending with e credit)
Credit	Does not apply to the Faculty of Medicine

Grade:	Criteria (examination evaluation criteria) -
Very Good (5.0)	
Good Plus (4.5)	
Good (4.0)	
Satisfactory Plus (3.5)	
Satisfactory (3.0)	
Unit realizing the subject	Division of Histology and Embryology
Unit address	Ul. Chałubińskiego 6a 50-368 Wrocław
Telephone	71 784 13 54 (55), fax: 71 784 00 82
E-Mail	justyna.kosek@umed.wroc.pl

Person responsible for module	Prof. dr hab. Marzenna Podhorska-Okołów
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Coordinator	
Telephone	71 784 16 70
E-Mail	marzenna.podhorska-okolow@umed.wroc.pl

List of persons conducting specific classes				
Full name	Degree/scientific or professional title	Discipline	Performed profession	Form of classes
Dr Sylwia Borska	dr of medical science	medical biology	adjunct	SE


Date of Syllabus development

24.10.2020

Syllabus developed by

Sylwia Borska

Signature of Head of teaching unit

Unwersytet Medyczny we Wrocławiu
ZAKŁAD HISTOLOGII I EMBRIOLOGII

prof. dr hab. Piotr Dziegiel

Signature of Faculty Dean

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