



Syllabus 2020/2021														
Description of the course														
Module/Course	Neonatology										Group of detailed education results			
											Group code E	Group name		
												Non invasive clinical science		
Faculty	Medicine													
Major	Medicine													
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	V						Semester		x Winter <input type="checkbox"/> 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 <input type="checkbox"/> with an X														
Number of hours														
Form of education														
Unit teaching the course	Lectures (L)	Seminars (SE)	Auditorium classes (AC)	Major Classes – not clinical (MC)	Clinical Classes (CC)	Laboratory Classes (LC)	Classes in Simulated	Practical Classes with Patient (PCP)	Specialist Classes – magister studies	Foreign language Course (ELC)	Physical Education obligatory (PE)	Vocational Practice (VP)	Self-Study (Student's own)	E-learning (EL)
Winter Semester														
	3	5			22									
Summer Semester														
TOTAL per year:30														
	3	5			22									
Educational objectives (max. 6 items)														
C1. Familiarizing students with the principles of perinatal care management, most frequent adaptation problems and disorders of the perinatal period														
C2. Establishing the ability to assess the healthy newborn, to plan the prophylaxis, the screening tests														



and immunizations.

C3. Familiarizing the students with problems of the newborn with low birth weight

C4. Familiarizing the students with diagnostic and therapeutical procedures in transitional states, congenital defects and selected disorders of the neonatal period.

C5. Establishing the ability to correctly assess the nutritional state of the newborn, including nutritional therapy and promoting natural feeding.

C6. Familiarizing the students with rules of respiratory circulatory resuscitation after birth and procedures in the life threatening situations.

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>
W 01	EW5	Student describes the fetal period physiology and factors influencing the post natal condition Student can characterize adaptation processes to the extrauterine life	oral test	SE
W 02	EW 5 EW 2 EW 3	Student describes methods to assess the state and maturity of the newborn after birth The student differentiates the term, preterm hypotrophic newborn	oral test	SE CC
W 03	EW 2	Student describes the appropriateness of the screening tests and the mandatory immunizations of the neonatal period	oral test	SE CC
W 04	EW 3	The student recognizes newborns with existing or potential pathology	oral test	L SE CC
W 05	EW 3 EW 32 EW 35	The student analyses the pathomechanism and the rules of diagnostic and therapeutical proceeding in the most frequent perinatal period disorders	oral test	SE CC
W 06	EW 2	The student promotes the advantages of the natural feeding	oral test	L SE CC
W 07	EW 6	The student knows the standards of proceeding in the life threatening situations of the newborn	oral test	SE CC



U 01	EU 8 EU 4	The student can assess the newborn condition in the Apgar scale, his maturity and ability to extrauterine life	oral test presentation	CC
U 02	EU 16 EU 26 EU 32	The student selects diagnostic, treatment and prophylactic procedures adequate to the existing problem. The student plans specialist consultations required in the diagnostic and therapeutical process	oral test	CC
U 03	EU 12	The student differentiates the most common congenital defects and selected perinatal period disorders	oral test	CC
U 04	EU 24	The student correctly interprets laboratory test and diagnostic imaging results	oral test	CC
U 05	EU 25	The student prepares the assessment of the newborn's nutritional status and plans the nutritional therapy	oral test presentation	CC
U 06	EU 14	The student recognizes life threatening situations of the newborn	oral test presentation	CC
U 07	EU 16	The student performs medical procedures for respiratory circulatory resuscitation	oral test presentation	CC

** 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: +++

Skills: ++

Student's amount of work (balance of ECTS points)

Student's workload (class participation, activity, preparation, etc.)	Student Workload (h)
1. Contact hours:	30
2. Student's own work (self-study):	13,3
Total student's workload	43,3
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	
<ol style="list-style-type: none"> 1. Congenital malformations 2. Infection of the newborn 3. Respiratory Distress Syndrome – surfactant administration 	
Seminars	
<ol style="list-style-type: none"> 1. Physiology of the fetal development and the adaptation to the extrauterine life. Screening tests in the neonatal period and mandatory vaccinations- 1 h 2. Neonatal jaundice - diagnosis, differential diagnosis, treatment. Haemolytic disease of the newborn due to Rh and ABO incompatibility- 1h 3. Congenital bacterial and viral infection – diagnosis and treatment- 1h 4. Congenital malformations- 1h 5. Three level perinatal care – basics of organization. Neonatal transport.- 1h 	
Practical classes	
<ol style="list-style-type: none"> 1. Managing the newborn in the delivery room, after natural birth and cesarean section delivery- 4.0 h CC 2. Low newborn's birth weight - differential diagnosis, therapeutic management Neonatal nutrition and nutrition therapy- 4.5 CC 3. Infant of a diabetic mother. Interpretation of the laboratory tests- 4.5 CC 4. Breathing disorders – differential diagnosis, therapeutic management. Resuscitation of the newborn- 4.5 CC 5. Selected pathologies of the circulatory, urinal, nervous and digestive systems- 4.5 CC 	
Other	
1.	
Basic literature (list according to importance, no more than 3 items)	
<ol style="list-style-type: none"> 1. John P. Cloherty, E.C Eichenwald, A.R. Hansen, A. R. Stark Manual of Neonatal Care- 2012 by Lippincott Williams& Wilkins, a Wolters Kluwer 2. V.H. Kirpalani, Perlman Resident's Handbook of Neonatology- 2008 	
Additional literature and other materials (no more than 3 items)	
<ol style="list-style-type: none"> 1. R. Polin M. Yoder. Workbook in Practical Neonatology 5th editio -2014 2. G.B Merenstein. Handbook of Neonatal Intensive Care-2006 	
Didactic resources requirements (e.g. laboratory, multimedia projector, other...)	
Neonatal phantom for resuscitation, audiovisual beamer	
Preliminary conditions (minimum requirements to be met by the student before starting the module/course)	
- Basic knowledge in the field of pediatrics and neonatology	
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)	
- Multiple choice entry test verifying the basic knowledge of neonatology and the students preparedness for the class – 5 questions	
-Multiple choice final test – 20 questions, including 15 questions verifying the gained knowledge and 5 questions verifying the ability to apply the knowledge in specific cases	
Each absence must be made up, including rector's days or dean's hours.	
Grade:	Criteria for course
Very Good	95-100 % of positive responses from the test



(5.0)	
Good Plus (4.5)	86-94 % of positive responses from the test
Good (4.0)	72-85 % of positive responses from the test
Satisfactory Plus (3.5)	71-78 % of positive responses from the test
Satisfactory (3.0)	51-70 % of positive responses from the test

Name of unit teaching course:	Department and Clinic of Neonatology
Address	Katedra i Klinika Neonatologii, USK, 50-556 Wrocław ul. Borowska 213,
Phone	71 733 15 00, fax. 71 733 15 09
E-mail	WL-30@umed.wroc.pl

Person responsible for course:	Head of the Department : dr hab.n.med. Barbara Królak-Olejnik, prof.nadzw
Phone	71 733 15 00, fax. 71 733 15 09
E-mail	WL-30@umed.wroc.pl

<i>List of persons conducting specific classes:</i>	<i>degree/scientific or professional title</i>	<i>Discipline</i>	<i>Performer profession</i>	<i>Form of classes</i>
Barbara Królak-Olejnik	dr hab.n.med./MD.PhD	Pediatrics/Neonatology	physician	SE/CC
Dorota Paluszyńska	dr n.med./MD.PhD	Pediatrics/Neonatology	physician	SE/CC
Monika Lachowska	dr n.med. /MD.PhD	Pediatrics/Neonatology	physician	SE/CC
Matylda Czosnykowska-Łukacka	dr n.med. /MD.PhD	Neonatology	laboratory diagnostician	SE/CC
Anna Szczygieł	dr n.med. /MD.PhD	Neonatology	physician	SE/CC
Agnieszka Jalowska	Lek. med /MD	Pediatrics/Neonatology	physician	SE/CC
Karolina Barańska	Dr n. med. /MD.PhD	Neonatology	physician	SE/CC
Weronika Wesołowska	Lek. med /MD	Neonatology	physician	SE/CC

Date of Syllabus development

30.05.2020

Syllabus developed by

dr n.med. Dorota Paluszyńska.



Signature of Head of teaching unit

dr hab.n.med. Barbara Królak-Olejniak, prof.nadzw.

Wrocław Medical University
Faculty of Pediatrics
Signature of Faculty Dean
prof. Barbara Królak-Olejniak, PhD

Uniwersytet Medyczny we Wrocławiu
KATEDRA I KLINIKA NEONATOLOGII
Kierownik

dr hab. Barbara Królak-Olejniak prof. nadzw.