



Syllabus for academic year: 2021/2022													
Training cycle:2018/2019-2023/2024													
Description of the course													
Course	Gyneacology and Obstetrics (1)								Group of detailed education results				
									Group code	Group name			
									F	Interventional Clinical Sciences			
Faculty	Medicine												
Major	Medicine												
Level of studies	<input checked="" type="checkbox"/> uniform magister studies <input type="checkbox"/> 1 <sup>st</sup> degree studies <input type="checkbox"/> 2 <sup>nd</sup> degree studies <input type="checkbox"/> 3 <sup>rd</sup> degree studies <input type="checkbox"/> postgraduate studies												
Form of studies	<input checked="" type="checkbox"/> full-time <input type="checkbox"/> part-time												
Year of studies	IV						Semester:	<input type="checkbox"/> winter <input checked="" type="checkbox"/> summer					
Type of course	<input checked="" type="checkbox"/> obligatory <input type="checkbox"/> limited choice <input type="checkbox"/> free choice / optional												
Language of study	<input type="checkbox"/> Polish <input checked="" type="checkbox"/> English												
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)	Foreign language Course (FLC)	Physical Education (PE)	Vocational Practice (VP)	Directed Self-Study (DSS)	E-learning (EL)
<b>Winter semester:</b>													
.....													
(Unit realizing the course)													



Direct (contact) education <sup>1</sup>																			
Distance learning <sup>2</sup>																			
<b>Summer semester:</b>																			
I st Dept. of Obstetrics and Gynaecology I st Dept. of Obstetrics and Gynaecology																			
Direct (contact) education																			
Distance learning	35																		
II nd Dept. of Obstetrics and Gynaecology I st Dept. of Obstetrics and Gynaecology																			
Direct (contact) education																			
Distance learning	35																		
<b>TOTAL per year:</b>																			
I st Dept. of Obstetrics and Gynaecology I st Dept. of Obstetrics and Gynaecology																			
Direct (contact) education																			
Distance learning	35																		
II nd Dept. of Obstetrics and Gynaecology I st Dept. of Obstetrics and Gynaecology																			
Direct (contact) education																			
Distance learning	35																		
* Each unit carries out 30 CK hours with assigned student groups in the academic year																			
<b>Educational objectives</b> (max. 6 items)																			
C1. Student should be able to link: the anatomy, physiology and pathophysiology of the female reproductive system in the aspect of human procreation.																			
C2. Student should be able to describe physiological pregnancy and physiological delivery.																			
C3. . Student should be able to describe basic pathologies of the pregnancy and basic pathologies complicating natural and operative deliveries (including some of the obstetrical- surgical procedures).																			

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C4. Student should get acquainted with available diagnostic techniques used in gynecology and obstetrics.  
C5. Student should know the proceedings in obstetrical emergencies.  
C6. The shaping of social competence necessary for the practice of medicine in accordance with the required profile of the graduate.

**Education result for course in relation to verification methods of the intended education result and the type of class:**

Number of detailed education result	Student who completes the course knows/is able to	Methods of verification of intended education results	Form of didactic class <i>*enter the abbreviation</i>
FW9	Knows the female reproductive function, associated disorders and diagnostic and therapeutic management, concerning in particular: 1.the menstrual cycle and its disorders, 2.pregnancy, 3.the physiological and pathological childbirth and the puerperium, 4.inflamations and tumours in the genital area, 5.birth control, 6.menopause, 7.the basic gynaecological diagnostic methods and procedures;	oral, answer, presentation, test	L, CC
EU38	is able to keep patient's medical records	Cases analysis, observation, carrying out actions in simulated conditions	CC
FU13	recognise signs and symptoms indicative of abnormal pregnancy (abnormal bleeding, contractile activity of the uterus);	Cases analysis, observation, carrying out actions in simulated conditions	CC
FU14	interpret the results of physical examination of a pregnant woman (blood pressure, maternal and foetal heart rate) and the results of laboratory tests indicative of pathologies in pregnancy;	Cases analysis, observation, carrying out actions in simulated conditions	CC
FU15	interpret cardiotocography (CTG) recordings;	Cases analysis, observation, carrying out actions in simulated conditions	CC
FU16	recognise the beginning of labour and its abnormal duration; F.U17. interpret subjective and physical symptoms during puerperium;	Cases analysis, observation, carrying out actions in simulated conditions	CC
FU17	interpret subjective and physical symptoms during puerperium;	Cases analysis, observation, carrying out actions in simulated conditions	CC



<b>FU18</b>	establish recommendations, indications and contraindications for the use of contraceptive methods;	Cases analysis, observation, carrying out actions in simulated conditions	CC
* L- lecture; SE- seminar; AC- auditorium classes; MC- major classes (non-clinical); CC- clinical classes; LC- laboratory classes; CSC- classes in simulated conditions; PCP- practical classes with patient; FLC- foreign language course; PE- physical education; VP- vocational practice; DSS- directed self-study; EL- E-learning			
<b>Student's amount of work (balance of ECTS points):</b>			
<b>Student's workload</b> (class participation, activity, preparation, etc.)		<b>Student Workload</b>	
1. Number of hours of direct contact:		30	
2. Number of hours of distance learning:		35	
3. Number of hours of student's own work:		15	
4. Number of hours of directed self-study		n/a	
Total student's workload		80	
<b>ECTS points for course</b>		2,5	
<b>Content of classes:</b> (please enter topic words of specific classes divided into their didactic form and remember how it is translated to intended educational effects)			
<b>Lectures</b>			
<ol style="list-style-type: none"> <li>1. Selected issues of particular fields of obstetrics and gynecology. (3h)</li> <li>2. Anatomy and function of female genital organs and breast in various periods of a woman's life (2h)</li> <li>3. Basics of reproductive medicine - gamete structure, fertilization and early embryogenesis. (2h)</li> <li>4. Fetal development, trimesters of pregnancy, placenta, fetal membranes, amniotic fluid (2h)</li> <li>5. Pregnancy supervision: plan, additional tests (2h)</li> <li>6. Biophysical and biochemical methods and tests estimating intrauterine condition and well-being of the fetus (3h)</li> <li>7. The course of delivery, stages of delivery, puerperium and lactation (3h)</li> <li>8. Abnormal pregnancy and delivery, cesarean section, procedures used during delivery (3h)</li> <li>9. Prenatal diagnosis in pregnancy, ultrasound examination in pregnancy (2h)</li> <li>10. Possibilities of intrauterine fetal treatment (3h)</li> <li>11. High risk pregnancy, gestational diabetes, twin pregnancy (2h)</li> <li>12. Pregnancy induced hypertension, intrauterine growth retardation (2h)</li> <li>13. Premature delivery: diagnosis and treatment, post term pregnancy (2h)</li> <li>14. Diseases complicating pregnancy and childbirth, pregnancy after infertility treatment, cancer during pregnancy (2h)</li> <li>15. Recurrent miscarriages, cervical insufficiency, thrombophilia, lupus erythematosus. Placenta abnormalities : placenta praevia, premature placenta abruption, abnormal placentation- causes, diagnostics, procedure (2h)</li> </ol>			
<b>Seminars</b>			
<ol style="list-style-type: none"> <li>1.</li> <li>2.</li> </ol>			



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### Classes

1. Physiological pregnancy: obstetric anamnesis, obstetrical examination, assessment of the cervix by Saling and Bishop score. Rules for keeping medical records of pregnant women. Purpose and interpretation of additional tests in uncomplicated pregnancy. Maternal genetic counseling - early diagnosis of fetal malformations. Malignant tumors of the female genital tract in pregnancy – screening, treatment options, mode of delivery (6h)

2. Methods for the assessment of fetal well-being: Cardiotocography (CTG) antenatal and intrapartum - interpretation of the record (short term variability, accelerations, decelerations). (6h)

Non-stress test (NST) and stress test (OCT) in the evaluation of placental function. Ultrasound in obstetrics (USG) - fetal biometry, assessment of the maturity of the placenta and the amount of amniotic fluid, the Manning test, diagnosis of fetal malformations. Amnioscopy and amniocentesis - indications, interpretation of the results and related complications.

3. Physiological delivery: preparing for vaginal birth. The mechanism of birth in cephalic presentation. Management of the first stage of delivery – assessment of uterine contractions, progress of labor, fetal heart monitoring, analgesia.

Management of the second stage of delivery - the conditions necessary for fetal expulsion, episiotomy. Management of the third stage of delivery - symptoms of separating of the placenta, assessment of the placenta, birth canal and postpartum bleeding. (6h)

4. Rhesus incompatibility - etiology, diagnosis, treatment, prevention. Multiple pregnancy - diagnosis, mode of delivery. Cervical insufficiency – etiology, diagnosis, treatment (6h)

5. Post-term pregnancy, preinduction and induction of labor. Preterm delivery - causes, diagnosis, treatment (tocolitics drugs, delivery of a preterm fetus). Threatening intra-uterine fetal asphyxia-causes, diagnosis and treatment during pregnancy and childbirth. (6h)

### Other

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

1. Bankowski „John Hopkins Manual of Obstetrics and Gynecology” Lippincott Williams & Wilkins; 2nd edition (May 1, 2002)

2. Berek „, Novak’s Gynecology” Wolters Kluwer Health, 2019

3. Brian Magowan “Clinical Obstetrics and Gynaecology” Elsevier Books, 2018

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

1. John Queenan “Fetal Medicine” Elsevier Health Sciences, 2009

2. Catrina Bain, Kevin Burton, Jay McGavigan “Gynaecology Illustrated” Elsevier Churchill Livingstone, 2011

3. James Alexander „,Obstetric Emergencies, An Issue of Obstetrics and Gynecology Clinics” Elsevier 2013

4. Jason Abbott, Lucy Bowyer, Martha Finn „,Obstetrics and Gynaecology an evidence-based guide” Paperback 2013

5. Nick Panay MD. “Crash Course: Obstetrics & Gynaecology” [Elsevier Books](#), 2019

### Preliminary conditions: (minimum requirements to be met by the student before starting the course)

Theoretical background

**Conditions to receive credit for the course:** (specify the form and conditions of receiving credit for classes included in the 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)

100% attendance, presentation, oral answer, test



Each absence must be made up, including rector's day or dean's hours - the form of making up classes should be agreed with the person responsible for the course;  
Credits are held in direct contact with an academic teacher or using electronic means of communication.

<b>Grade:</b>	<b>Criteria for courses ending with a grade<sup>3</sup></b>
Very Good (5.0)	Test: 14-15points /15 points Outstanding (Evidence Based Medicine) knowledge of the subject (including different approaches to the pathology around the world – differences between the American, Canadian, European guidelines considering the matter), full understanding of the pathology lying under patients condition; Student can fully interpret all the test results, knows the possible diagnostic techniques (including the newest techniques), is able to determine the most possible outcome for the patient; Student can fully plan the diagnostic-therapeutic pathway for his/hers patient and can explain every step of it to the teacher
Good Above (4.5)	Test: 13 points /15 points Very good knowledge of the subject, full understanding of the pathology lying under patients condition; Student can fully interpret all the test results, knows the possible diagnostic techniques (including the newest), is able to determine the most possible outcome for the patient; Student can fully plan the diagnostic-therapeutic pathway for his/hers patient and can explain every step of it to the teacher
Good (4.0)	Test: 11-12points /15 points Good knowledge of the subject, in his/hers words can explain the pathology lying under patients condition; Student can interpret the most obvious test results, knows the possible diagnostic techniques; Student can fully plan the diagnostic-therapeutic pathway for his/hers patient and can explain every step of it to the teacher.
Satisfactory Plus (3.5)	Test: 10 points /15 points Decent knowledge of the subject, with little help can explain the pathology lying under patients condition; Student can interpret the most obvious test results, knows most of the possible diagnostic techniques; Student can briefly plan the diagnostic-therapeutic pathway for his/hers patient and can explain every step of it to the examiner

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<sup>3</sup> The verification must cover all education results, which are realize in all form of classes within the course



Satisfactory (3.0)	Test: 8-9 points /15 points Satisfactory knowledge of the subject, with extra help can deduct the pathology lying under patients condition; Student can interpret the most obvious test results, knows a few of the possible diagnostic techniques; Student can briefly plan the diagnostic-therapeutic pathway for his/hers patient and can explain it of it to the examiner.
	<b>Criteria for courses ending with a credit<sup>3</sup></b>
Credit	

<b>Unit realizing the course:</b>	II nd Dept. of Obstetrics and Gynaecology
<b>Unit address:</b>	ul. Borowska 213, 50-556 Wrocław
<b>Telephone:</b>	71- 733-14-97; 71/733-14-00
<b>E-Mail:</b>	joanna.lewandowska@umed.wroc.pl
<b>Unit realizing the course:</b>	I st Dept. of Obstetrics and Gynaecology
<b>Unit address:</b>	ul. Chałubińskiego 3, <a href="#">50-368 Wrocław</a>
<b>Telephone:</b>	71 784 23 47
<b>E-Mail:</b>	<a href="mailto:ewa.karanter@umed.wroc.pl">ewa.karanter@umed.wroc.pl</a>

<b>Person responsible for the course:</b>	Dr hab. n. med. Tomasz Fuchs
<b>Telephone:</b>	71/ 733-14-97
<b>E-Mail:</b>	Tomasz.fuchs@umed.wroc.pl

**List of persons conducting specific classes:**

Name and surname	Degree/scientific or professional title	Discipline	Performed profession	Form of classes
Mariusz Zimmer	Professor	Medical science	doctor	CC
Jerzy Florjański	Assistant Professor	Medical science	doctor	CC
Tomasz Fuchs	Assistant Professor	Medical science	doctor	L, CC
Michał Pomorski	Assistant Professor	Medical science	doctor	CC
Marek Tomiałowicz	MD, PhD	Medical science	doctor	CC
Jakub Śliwa	MD, PhD	Medical science	doctor	CC
Cyprian Goluda	MD, PhD	Medical science	doctor	CC
Jacek Robaczyński	MD, PhD	Medical science	doctor	CC
Jacek Żmijewski	MD, PhD	Medical science	doctor	CC
Anna Rosner - Tenerowicz	MD, PhD	Medical science	doctor	CC
Wasył Pasławski	MD, PhD	Medical science	doctor	CC
Artur Wiatrowski	MD	Medical science	doctor	CC
Anna Kryza-Ottou	MD, PhD	Medical science	doctor	CC
Agata Pawłosek	MD, PhD	Medical science	doctor	CC
Aleksandra Zimmer-Stelmach	MD, PhD	Medical science	doctor	CC
Beata Dawiec	MD	Medical science	doctor	CC
Anna Tarczyńska	MD	Medical science	doctor	CC



Joanna Budny-Wińska	MD	Medical science	doctor	CC
Lidia Hirnle	Professor	Medical science	doctor	CC
Marek Murawski	Assistant Professor	Medical science	doctor	CC
Jan Korzeniowski	MD, PhD	Medical science	doctor	CC
Grzegorz Myszczyszyn	MD, PhD	Medical science	doctor	CC
M. Strózik	MD	Medical science	doctor	CC
Radosław Blok	MD, PhD	Medical science	doctor	CC
Rafał Sozański	MD, PhD	Medical science	doctor	CC
Bogusław Pańczyński	MD, PhD	Medical science	doctor	CC
Renata Pilarczyk	MD	Medical science	doctor	CC
Małgorzata Kowalska	MD	Medical science	doctor	CC
Maciej Pakuła	MD	Medical science	doctor	CC
J. Banyś	MD	Medical science	doctor	CC
Magdalena Kapton	MD	Medical science	doctor	CC
Adam Jagodziński	MD	Medical science	doctor	CC
Ewa Zielińska	MD	Medical science	doctor	CC
Magdalena Makowska	MD	Medical science	doctor	CC
Aleksandra Kalota	MD	Medical science	doctor	CC
Karolina Panek	MD	Medical science	doctor	CC

Date of Syllabus development

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Syllabus developed by

Signature of Head(s) of teaching unit(s)

II KATEDRA I KLINIKA  
GINEKOLOGII I POŁOŻNICTWA  
Klinika

prof. dr hab. n. med. Marlene Zimmer

Dean's signature

Wrocław Medical University  
Faculty of Medicine

Vice-Dean for English Studies

prof. Beata Sobieszka, PhD