



Direct (contact) education ¹					30*									
Distance learning ²														
II nd Dept. of Obstetrics and Gynaecology I st Dept. of Obstetrics and Gynaecology														
Direct (contact) education ³					30*									
Distance learning ⁴														
Summer semester:														
I st Dept. of Obstetrics and Gynaecology I st Dept. of Obstetrics and Gynaecology														
Direct (contact) education					20*									
Distance learning	30													
II nd Dept. of Obstetrics and Gynaecology I st Dept. of Obstetrics and Gynaecology														
Direct (contact) education					20*									
Distance learning	30													
TOTAL per year:														
I st Dept. of Obstetrics and Gynaecology I st Dept. of Obstetrics and Gynaecology														
Direct (contact) education					50*									
Distance learning	30													
II nd Dept. of Obstetrics and Gynaecology I st Dept. of Obstetrics and Gynaecology														
Direct (contact) education					50*									
Distance learning	30													
* Each unit carries out 30 CK hours with assigned student groups in the academic year														
Educational objectives (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).														
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.inflammations 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
FU18	establish recommendations, indications and contraindications for the use of contraceptive methods;	Cases analysis, observation, carrying out actions	CC



		in simulated conditions	
* 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			
Student's amount of work (balance of ECTS points):			
Student's workload (class participation, activity, preparation, etc.)		Student Workload	
1. Number of hours of direct contact:		50	
2. Number of hours of distance learning:		30	
3. Number of hours of student's own work:		25	
4. Number of hours of directed self-study			
Total student's workload		105	
ECTS points for course		4	
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			
II Department of Gynecology and Obstetrics			
1. Malformations of female genital organs (2h)			
2. Infections of the lower section of female genital organs. (2h)			
3. Infections of the upper section of the female genital organs and mammary gland. (2h)			
4. Gynecological endocrinology - menstrual disorders(2h)			
5. Gynecological endocrinology - menopause (2h)			
6. Gynecological problems related to obesity. Endometriosis. (2h)			
7. Pelvic organ prolapse and urinary incontinence. (2h)			
8. Diagnosis and treatment of infertility. (2h)			
9. Family planning and contraception. (2h)			
10. Urgent conditions in gynecology and obstetrics. (2h)			
11. Vulvar and vaginal neoplasms - precancerous conditions, benign and malignant lesions. (2h)			
12. Cervical neoplasms - precancerous conditions, benign and malignant lesions. The role of HPV infection in the pathogenesis of cervical cancer. (2h)			
13. Endometrial neoplasms - precancerous conditions, benign and malignant lesions. (2h)			
14. Neoplasms of the ovary and fallopian tube - benign and malignant lesions(2h)			
15. Neoplasms of the mammary gland - benign and malignant lesions. (2h)			
Seminars			
1.			
2.			
3.			
ect.			
Classes			
Winter Semester:			
1. <u>Main topics of high risk pregnancy:</u> Hypertension in pregnancy and its clinical sequels – chronic			



hypertension, pre-eclampsia and eclampsia. Liver diseases specific for pregnancy – HELLP syndrome, gestational acute liver steatosis, gestational intrahepatic cholestasis. Pre-gestational and gestational diabetes mellitus – complications, White classification, rules of pregnancy management and delivery. Urinary tract infections in pregnancy. Antiphospholipid syndrome (APS) – diagnostic criteria, clinical sequels, treatment in pregnancy. Polyhydramnios and oligohydramnios. Fetal intrauterine growth retardation (IUGR) – causes, diagnostics, management. (6h)

2. Pathologic labor: Fetal lie, position and presentation abnormalities – types, diagnosis, management. Uterine contraction activity disorders – contraction activity weakness, contraction hyperactivity, dissociated contraction activity. Maternal-fetal disproportion – causes, symptoms, diagnosis. Shoulder dystocia – risk factors, prevention, management. Labor terminating procedures (obstetric operations) - cesarean section, forceps delivery, vacuum extractor, manual assistance, external and internal version – indications, performance conditions and technique. Natural passage delivery after past cesarean section. (6h)
3. Pregnancy and labor bleedings: Miscarriage. Ectopic pregnancy. Missed abortion. Cervical cancer in pregnancy. Gestational trophoblastic disease. Vaginal and vulvar varices bleeding. Placenta previa. Premature placenta detachment. Migrating vessel rupture. Umbilical cord velamentous insertion. Third stage of labor hemorrhages – uterine atonia, placenta detachment and expulsion disturbances. Soft birth canal perinatal injuries. Obstetrical coagulopathies – causes, diagnosis, treatment(6h)
4. Clinical gynecology: Female genital organs and breast malformations – classification, diagnosis and treatment. Pelvic pain syndrome (PPS) – causes, differential diagnostics. Endometriosis – current opinions upon etiopathogenesis, classification, diagnostics and treatment. Abnormal uterine bleeding – causes, management. Uterine myomas – characteristics, clinical symptoms, diagnosis, differentiation, treatment. Endoscopic procedures in gynecology: laparoscopy, hysteroscopy, salpingoscopy – indications, performance technique, complications. Assisted reproductive technologies (ART) in marital infertility treatment. (6h)
5. Gynecological oncology: Female genital organs and breast malignant neoplastic diseases classification. Vulvar cancer – clinical picture, diagnosis, treatment. Cervical cancer – symptoms, diagnosis, treatment, prophylaxis – anti-HPV vaccination role. Endometrial cancer - symptoms, diagnosis, treatment. Ovarian cancer - clinical picture, diagnosis, differentiation, treatment. Breast cancer - symptoms, diagnosis, treatment, prophylaxis. Radiotherapy and chemotherapy in gynecological oncology – types, efficacy, complications. (6h)

Summer semester:

1. Pregnant woman as well as gynecological patient surveillance - trigradual selective care rules. Female genital tract and breast inflammations. Sexually transmitted diseases. Main problems of pediatric and adolescent gynecology. (4h)
2. Surgical treatment of gynecological diseases – patient’s preoperative preparation and management principles in an operating room. Pelvic organ prolapse – POP-Q classification, modern methods of diagnostics and therapy. Female urinary incontinence – etiopathogenesis, classification, diagnosis, methods of treatment and prophylaxis. (4h)
3. Gynecological emergencies – ectopic pregnancy, ovarian cyst torsion, acute adnexitis, genital organs injuries. Sexual offences against women – medical treatment of rape and illicit sexual act victims. The issue of domestic violence. Criminal abortions – diagnosis, treatment, complications. (4h)
4. Female genital organs and breast malignant neoplastic diseases – classification, diagnostics, treatment, prophylaxis. (4h)
5. Civilization changes influence on human procreation. Menstruation disorders. Marital infertility. Family planning and contraception. Menopause – indications and contraindications for hormonal replacement therapy. (4h)

Other

- 1.



2.
3.
ect.
Basic literature (list according to importance, no more than 3 items)
<ol style="list-style-type: none"> 1. Cunningham – „Williams Obstetrics” McGraw-Hill, 2018 2. Bankowski „John Hopkins Manual of Obstetrics and Gynecology” Lippincott Williams & Wilkins; 2nd edition (May 1, 2002) 3. Berek „Novak’s Gynecology” Wolters Kluwer Health, 2019
Additional literature and other materials (no more than 3 items)
<ol style="list-style-type: none"> 1. Cohen – „Cherry and Merkatz’s Complications of Pregnancy” Lippincott Williams & Wilkins, ©2000 2. De Cherney – „Current Obstetrics and Gynecology” McGraw-Hill, 2019 3. Gilstrap – „Operative Obstetrics” McGraw-Hill, 2017
Preliminary conditions: (minimum requirements to be met by the student before starting the course)
Theoretical background. Credit obtainment for Obstetrics and Gynecology course in the IV-th year.
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.

Grade:	Criteria for courses ending with a grade⁵
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;

⁵ The verification must cover all education results, which are realize in all form of classes within the course



	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 pouds /15 pouds 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
Satisfactory (3.0)	Test: 8-9 pouds /15 pouds 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.
	Criteria for courses ending with a credit³
Credit	

Grade:	Criteria for exam ³
Very Good (5.0)	
Good Above (4.5)	
Good (4.0)	
Satisfactory Plus (3.5)	
Satisfactory (3.0)	

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

Person responsible for the course:	Dr hab. n. med. Michał Pomorski
Telephone:	71/ 733-14-97
E-Mail:	Michal.pomorski@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	CC
Michał Pomorski	Assistant Professor	Medical science	doctor	L, 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 Paślawski	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 Myszczyzyn	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 Pałczyński	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 Kapłon	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

Syllabus developed by

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Uniwersyteci Medyczny we Wrocławiu
II KATEDRA KLINIKI
GINEKOLOGII I POBYCZNIWA
kierownik

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

prof. dr hab. n. med. Beata Zimmer

Dean's signature

Wrocław Medical University
Faculty of Medicine
Vice-Dean for Quality Studies
prof. Beata Schiller-Czerwik, PhD