

Obstetrics and Gynecology

Educational subject description sheet

Basic information

Department Faculty of Medicine Field of study Medical Program Study level long-cycle master's degree program Study form full-time Education profile general academic Disciplines Medical science Subject related to scientific research Yes		Didactic cycle 2016/17 Realization year 2018/19, 2019/20, 2020/21, 2021/22 Lecture languages English Block obligatory for passing in the course of studies Mandatory obligatory Examination examination Standard groups B. Scientific basics of medicine, C. Preclinical course, F. Clinical procedural sciences
Subject coordinator	Iwona Gawron	
Lecturer	Iwona Gawron, Klaudia Stangel-Wójcikiewicz, Andrzej Jaworowski, Olga Kacalska-Janssen, Andrzej Zmaczyński, Joanna Spaczyńska, Marta Bałajewicz-Nowak, Anna Horbaczewska, Dominika Trojnarz, Agnieszka Kotlarz, Estera Kłosowicz, Michał Mleko, Robert Jach	

Periods Semester 5, Semester 6	Examination credit Activities and hours seminar: 20, classes: 20	Number of ECTS points 3.0
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Periods Semester 7, Semester 8	Examination credit Activities and hours seminar: 20, classes: 20	Number of ECTS points 3.0
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Periods Semester 9, Semester 10	Examination credit Activities and hours seminar: 45, classes: 35	Number of ECTS points 4.0
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Periods Semester 11, Semester 12	Examination examination Activities and hours clinical classes: 60	Number of ECTS points 4.0
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Goals

C1	To provide the basic resource of information in gynecology and obstetrics.
C2	To introduce the basic diagnostic and therapeutic techniques in the field of obstetrics and gynecology. To acquire the practical skill of gynecological examination with the use of specula and bimanual examination.
C3	To obtain the theoretical knowledge on physiology and pathology of the pregnancy and the delivery.
C4	To obtain the knowledge about prevention and early diagnosis of female genital neoplasms.
C5	To gain basic training in management of obstetrical emergencies.
C6	To obtain practical ability of obstetrical examination during pregnancy, labor and puerperium.
C7	To develop ability to talk with the patient and her family regarding the present or suspected pathology and be able to recognize diagnostic and therapeutic criteria.
C8	To gain basic knowledge in the field of gynecologic and obstetric endocrinology.
C9	To gain basic knowledge in the field of couple infertility, assisted reproductive techniques and oncofertility.

Subject's learning outcomes

Code	Outcomes in terms of	Effects	Examination methods
Knowledge - Student knows and understands:			
W1	development, structure and functions of the human body in normal and pathological conditions	O.W1	written examination, oral credit, credit
W2	symptoms and course of diseases	O.W2	written examination, oral credit, credit
W3	methods of diagnostic and therapeutic procedures appropriate for specific disease states	O.W3	written examination, oral credit, credit
W4	ethical, social and legal conditions for practicing the medical profession and the principles of health promotion, based on scientific evidence and accepted standards	O.W4	written examination, oral credit, credit

W5	female reproductive functions, related disorders and diagnostic and therapeutic procedures concerning in particular: 1) the menstrual cycle and its disturbances, 2) pregnancy, 3) physiological and pathological childbirth and postpartum period, 4) genital cancers and inflammations, 5) birth control, 6) menopause, 7) basic diagnostic methods and gynecological procedures	F.W9	written examination, oral credit, credit
W6	rules of qualification for basic surgical procedures and invasive diagnostic and therapeutic procedures, rules of their performance and the most frequent complications	F.W3	written examination, oral credit, credit
W7	principles of perioperative safety, patient preparation for surgery, general and local anesthesia and controlled sedation	F.W4	written examination, oral credit, credit
W8	postoperative treatment with analgesic therapy and postoperative monitoring	F.W5	written examination, oral credit, credit
W9	the course and regulation of reproductive functions in women and men	B.W22	written examination, oral credit, credit
W10	aberrations of autosomes and heterosomes that cause disease, including oncogenesis and cancer	C.W7	written examination, oral credit, credit
W11	basics of diagnostics of gene and chromosomal mutations responsible for hereditary and acquired diseases, including neoplastic diseases	C.W9	written examination, oral credit, credit
W12	normal human karyotype and different types of sex determination	C.W3	written examination, oral credit, credit
W13	genetic determinants of human blood groups and serological conflict in the Rh system	C.W6	written examination, oral credit, credit
Skills - Student can:			
U1	identify life-threatening conditions that require immediate medical intervention	O.U2	booklet of practice, oral credit
U2	identify medical problems and prioritize medical management	O.U1	booklet of practice, oral credit
U3	plan the diagnostic procedure and interpret its results	O.U3	booklet of practice, oral credit
U4	implement appropriate and safe therapeutic treatment and predict its effects	O.U4	booklet of practice, oral credit
U5	communicate with the patient and his family in an atmosphere of trust, taking into account the needs of the patient	O.U7	booklet of practice, oral credit
U6	adhere to the principles of asepsis and antisepsis	F.U3	booklet of practice, oral credit
U7	recognize subjective and physical symptoms indicating the abnormal course of pregnancy (abnormal bleeding, contractions of the uterus)	F.U13	booklet of practice, oral credit
U8	interpret the results of physical examination of a pregnant woman (arterial pressure, functioning of the mother's and fetus' heart) and the results of laboratory tests proving the pathologies of pregnancy	F.U14	booklet of practice, oral credit
U9	interpret the cardiotocography (CTG)	F.U15	booklet of practice, oral credit

U10	recognize the beginning of labor and its incorrect duration	F.U16	booklet of practice, oral credit
U11	interpret subjective signs and symptoms during the time of confinement	F.U17	booklet of practice, oral credit
U12	establish recommendations, indications and contraindications concerning the use of contraceptive methods	F.U18	booklet of practice, oral credit
U13	identify indications for prenatal testing	C.U2	booklet of practice, oral credit
U14	make decisions about the need for cytogenetic and molecular tests	C.U3	booklet of practice, oral credit
Social competences - Student is ready to:			
K1	to establish and maintain deep and respectful contact with patients and to show understanding for differences in world views and cultures	O.K1	booklet of practice, oral credit
K2	to be guided by the well-being of a patient	O.K2	booklet of practice, oral credit
K3	respect medical confidentiality and patients' rights	O.K3	booklet of practice, oral credit
K4	take actions towards the patient on the basis of ethical norms and principles, with an awareness of the social determinants and limitations of the disease	O.K4	booklet of practice, oral credit
K5	perceive and recognize own limitations and self-assessing educational deficits and needs	O.K5	booklet of practice, oral credit
K6	promote health-promoting behaviors	O.K6	booklet of practice, oral credit
K7	use objective sources of information	O.K7	booklet of practice, oral credit
K8	formulate conclusions from own measurements or observations	O.K8	booklet of practice, oral credit
K9	implement the principles of professional camaraderie and cooperation in a team of specialists, including representatives of other medical professions, also in a multicultural and multinational environment	O.K9	booklet of practice, oral credit
K10	assume responsibility for decisions taken in the course of their professional activities, including in terms of the safety of oneself and others	O.K11	booklet of practice, oral credit
K11	formulate opinions on the various aspects of the professional activity	O.K10	booklet of practice, oral credit

Calculation of ECTS points

Semester 5, Semester 6

Activity form	Activity hours*
seminar	20

classes	20
Student workload	Hours 40
Workload involving teacher	Hours 40
Practical workload	Hours 20

* hour means 45 minutes

Semester 7, Semester 8

Activity form	Activity hours*
seminar	20
classes	20
Student workload	Hours 40
Workload involving teacher	Hours 40
Practical workload	Hours 20

* hour means 45 minutes

Semester 9, Semester 10

Activity form	Activity hours*
seminar	45
classes	35
Student workload	Hours 80
Workload involving teacher	Hours 80
Practical workload	Hours 35

* hour means 45 minutes

Semester 11, Semester 12

Activity form	Activity hours*
clinical classes	60

preparation for examination	200
Student workload	Hours 260
Workload involving teacher	Hours 60
Practical workload	Hours 60

* hour means 45 minutes

Study content

No.	Course content	Subject's learning outcomes	Activities
1.	Anatomy and physiology of the female reproductive system	W1	seminar
2.	Physiological changes during pregnancy. Puerperium.	W1, W10, W2, W5, U11, U13, U14, U6, K1, K2, K6, K7	seminar
3.	Prenatal genetic screening. Fetal therapy. Premature birth.	W1, W2, W3, W5, W6, W7, W8, U10, U13, U2, U3, U5, U9, K1, K3, K8	seminar
4.	Fetal well-being assesment.	W11, W12, W13, W2, W5, W6, W7, W8, U1, U12, U13, U2, U3, U4, U5, U9, K11, K3, K4, K5, K6, K7	classes, seminar
5.	Normal labour and delivery. Operative delivery. Shoulder dystocia.	W10, W11, W2, W3, W4, W5, W6, W7, U14, U5, K5	seminar
6.	Placental abnormalities. Obstetric hemorrhage.	W1, W13, W3, W4, U1, U10, U11, U12, U6, U7, U9, K10, K3, K7, K8	classes, seminar, clinical classes
7.	Introduction to gynecological oncology. Oncological prevention in gynecology.	W2, W3, W4, W5, W6, W7, U2, U5, K10, K2, K3, K4, K5, K7, K8, K9	classes, seminar, clinical classes
8.	Hypertension disease during pregnancy.	W2, W3, W4, W9, U10, U11, U3, U4, U5, U6, U7, U8, U9, K11, K9	classes, clinical classes
9.	Intrauterine fetal growth disorders. Rhesus isoimmunisation. Infectious diseases in pregnancy.	W1, W13, W2, W3, W5, U1, U2, U3, U4, U7	seminar
10.	The most common haematological, and gastrointestinal disorders in pregnant women.	W1, W2, W3, W5, U1, U2, U3	seminar
11.	Ultrasound screening in obstetrics and gynecology.	W2, U2, U3, U8, K8	clinical classes
12.	Endometriosis. Endometrial neoplasms.	W1, W2, W3, W6, W9, K2, K3	seminar, clinical classes
13.	Menstrual cycle. Regulation. Methods of contraception. Menopause.	W1, W2, W3, W9, U2, U3	seminar

14.	Thyroid disease and diabetes mellitus in pregnancy.	W1, W3, U1, U2, U3, U4, K6	seminar
15.	Epidemiology and prevention of cancers of the female genital tract.	W1, W10, W11, W2, W3, W5, W9, U2, U3	seminar
16.	Implantation, embryogenesis, placental development. Fetal malpresentation. Pelvimetry.	W1, W2, W4, W5, W6, W7, W9, U11, U2	seminar
17.	Obstetrical and gynecological examination.	W1, W12, W2, W3, W6, W9, U10, U11, U14, K3	classes, seminar
18.	Phases of parturition. Physiological and biochemical processes regulating parturition. Physiologic delivery.	W1, W2, W3, W4, W5, U10, U11, U5, U6, U9, K2, K3, K6, K7	seminar
19.	Intraepithelial diseases of the cervix, vagina and vulva. Role of colposcopy and HPV infections.	W1, W10, W11, W2, W3, W4, W6, U5, K3, K7	seminar
20.	Breast cancer. Benign breast diseases.	W1, W10, W11, W2, W4, U5	seminar
21.	Intrauterine growth retardation. Intrauterine fetal demise. Infectious diseases during pregnancy.	W1, W12, W2, W3, W4, U13, U14, U2, U3, U9, K8	seminar
22.	Gynecological oncology: benign and malignant tumors of the ovary, management. Cancer and pregnancy.	W1, W10, W11, W2, W3, W6, U5, K2, K7, K8	seminar
23.	Thromboembolic diseases during pregnancy.	W2, W3, W9, U1, U2, U3	seminar
24.	Female and male infertility. Excessive androgen disorders.	W12, W2, U1, U2, U3, U4, K1	seminar
25.	Hemolytic disease of the fetus. Non-immune hydrops. Post-term pregnancy. Amniotic fluid abnormalities.	W1, W3, W5, U10, U13, U2, U4, U8	seminar
26.	Ectopic pregnancy. Gestational trophoblastic disease. Endometriosis. Pelvic pain syndrome.	W1, W2, W3, W4, W9, U2, U3, U7, K6, K7	seminar
27.	Amenorrhea. Menstrual disorders. Abnormal uterine bleeding.	W1, W7, W9, U1, U12, U2, U3	seminar
28.	Diabetes in pregnancy.	W1, W2, W3, W4, U11, U13, U2, K6	seminar
29.	Diseases of the liver, biliary system and pancreas in pregnancy. Pregnancy and autoimmune diseases.	W1, W2, W3, U1, U3, K3, K7	seminar

Course advanced

Semester 5, Semester 6

Teaching methods:

clinical classes, classes in clinical skills room, seminar, lecture, practical classes in simulated conditions, self-study; possible participation in research

Activities	Examination methods	Credit conditions
seminar	credit	Student attendance is obligatory. Any absence must be justified in writing and submitted to the Dean's Office. Unauthorized absence will result in failure to complete the course. Form of passing the course: credit for attendance.

Activities	Examination methods	Credit conditions
classes	oral credit	Student attendance is obligatory. Any absence must be justified in writing and submitted to the Dean's Office. Unauthorized absence will result in failure to complete the course. Form of passing the course: oral credit.

Semester 7, Semester 8

Teaching methods:

clinical classes, classes in clinical skills room, seminar, lecture, practical classes in simulated conditions, self-study; possible participation in research

Activities	Examination methods	Credit conditions
seminar	credit	Student attendance is obligatory. Any absence must be justified in writing and submitted to the Dean's Office. Unauthorized absence will result in failure to complete the course. Form of passing the course: credit for attendance.
classes	oral credit	Student attendance is obligatory. Any absence must be justified in writing and submitted to the Dean's Office. Unauthorized absence will result in failure to complete the course. Form of passing the course: oral credit.

Semester 9, Semester 10

Teaching methods:

clinical classes, classes in clinical skills room, seminar, lecture, self-study; possible participation in research

Activities	Examination methods	Credit conditions
seminar	credit	Student attendance is obligatory. Any absence must be justified in writing and submitted to the Dean's Office. Unauthorized absence will result in failure to complete the course. Form of passing the course: credit for attendance.
classes	booklet of practice, oral credit	Student attendance is obligatory. Any absence must be justified in writing and submitted to the Dean's Office. Unauthorized absence will result in failure to complete the course. Form of passing the course: booklet of practice, oral credit.

Semester 11, Semester 12

Teaching methods:

clinical classes, classes in clinical skills room, seminar, lecture, self-study; possible participation in research

Activities	Examination methods	Credit conditions
clinical classes	written examination	Student attendance is obligatory. Any absence must be justified in writing and submitted to the Dean's Office. Unauthorized absence will result in failure to complete the course. Exam scoring rules: 60-67% = 3; 68-75% = 3.5; 76-83% = 4; 84-91% = 4.5; 92-100% = 5.

Additional info

The presence of the student during the classes is obligatory. Any absence must be justified in writing and submitted to the Dean's office. Unauthorized absence will result in failure to complete the course. It is not possible to make up for the classes. Special situations are adjudicated by the Dean.

Entry requirements

Student has knowledge of pre-clinical subjects: anatomy, physiology and pathophysiology of the female reproductive system. Student is able to collect general medical history and interpret laboratory findings. Student has knowledge of aseptic principles and procedures. Student has completed previous semesters. Student is prepared for classes in the field of theoretical knowledge, which allows active participation in clinical practice.

Literature**Obligatory**

1. Oxford Textbook of Obstetrics and Gynaecology, Edited by Sabaratnam Arulkumaran, William Ledger, Lynette Denny, and Stergios Doumouchtsis Publisher: Oxford University Press Print, 2015.

Standard effects

Code	Content
B.W22	the course and regulation of reproductive functions in women and men
C.U2	identify indications for prenatal testing
C.U3	make decisions about the need for cytogenetic and molecular tests
C.W3	normal human karyotype and different types of sex determination
C.W6	genetic determinants of human blood groups and serological conflict in the Rh system
C.W7	aberrations of autosomes and heterosomes that cause disease, including oncogenesis and cancer
C.W9	basics of diagnostics of gene and chromosomal mutations responsible for hereditary and acquired diseases, including neoplastic diseases
F.U3	adhere to the principles of asepsis and antisepsis
F.U13	recognize subjective and physical symptoms indicating the abnormal course of pregnancy (abnormal bleeding, contractions of the uterus)
F.U14	interpret the results of physical examination of a pregnant woman (arterial pressure, functioning of the mother's and fetus' heart) and the results of laboratory tests proving the pathologies of pregnancy
F.U15	interpret the cardiotocography (CTG)
F.U16	recognize the beginning of labor and its incorrect duration
F.U17	interpret subjective signs and symptoms during the time of confinement
F.U18	establish recommendations, indications and contraindications concerning the use of contraceptive methods
F.W3	rules of qualification for basic surgical procedures and invasive diagnostic and therapeutic procedures, rules of their performance and the most frequent complications
F.W4	principles of perioperative safety, patient preparation for surgery, general and local anesthesia and controlled sedation
F.W5	postoperative treatment with analgesic therapy and postoperative monitoring
F.W9	female reproductive functions, related disorders and diagnostic and therapeutic procedures concerning in particular: 1) the menstrual cycle and its disturbances, 2) pregnancy, 3) physiological and pathological childbirth and postpartum period, 4) genital cancers and inflammations, 5) birth control, 6) menopause, 7) basic diagnostic methods and gynecological procedures
O.K1	to establish and maintain deep and respectful contact with patients and to show understanding for differences in world views and cultures
O.K2	to be guided by the well-being of a patient
O.K3	respect medical confidentiality and patients' rights
O.K4	take actions towards the patient on the basis of ethical norms and principles, with an awareness of the social determinants and limitations of the disease
O.K5	perceive and recognize own limitations and self-assessing educational deficits and needs
O.K6	promote health-promoting behaviors
O.K7	use objective sources of information
O.K8	formulate conclusions from own measurements or observations
O.K9	implement the principles of professional camaraderie and cooperation in a team of specialists, including representatives of other medical professions, also in a multicultural and multinational environment
O.K10	formulate opinions on the various aspects of the professional activity

Code	Content
O.K11	assume responsibility for decisions taken in the course of their professional activities, including in terms of the safety of oneself and others
O.U1	identify medical problems and prioritize medical management
O.U2	identify life-threatening conditions that require immediate medical intervention
O.U3	plan the diagnostic procedure and interpret its results
O.U4	implement appropriate and safe therapeutic treatment and predict its effects
O.U7	communicate with the patient and his family in an atmosphere of trust, taking into account the needs of the patient
O.W1	development, structure and functions of the human body in normal and pathological conditions
O.W2	symptoms and course of diseases
O.W3	methods of diagnostic and therapeutic procedures appropriate for specific disease states
O.W4	ethical, social and legal conditions for practicing the medical profession and the principles of health promotion, based on scientific evidence and accepted standards