

DESCRIPTION OF THE COURSE OF STUDY

Course code		
Name of the course in	Polish	Ginekologia i położnictwo
	English	Gynaecology and Obstetrics

1. LOCATION OF THE COURSE OF STUDY WITHIN THE SYSTEM OF STUDIES

1.1. Field of study	Medicine
1.2. Mode of study	Full-time
1.3. Level of study	Uniform Master's studies
1.4. Profile of study*	practical
1.5. Specialization*	Lack
1.6. Unit running the course of study	Faculty of Medicine and Health Sciences, Clinic of Obstetrics and Gynaecology - Provincial Combined Hospital in Kielce
1.7. Person/s preparing the course description	Dr n. med. Justyna Płusajska
1.8. Person responsible for the course of study	Dr n. med. Justyna Płusajska
1.6. Contact	justyna.plusajska@gmail.com

2. GENERAL CHARACTERISTICS OF THE COURSE OF STUDY

2.1. Affiliation to module	Surgical clinical sciences
2.2. Language of instruction	English
2.3. Semestr in which the course of study is offered	9 th - 10 th
2.4. Prerequisites*	Basic knowledge in the field of anatomy and physiology of the female reproductive system.

3. DETAILED CHARACTERISTICS OF THE COURSE OF STUDY

3.1. Form of classes	LECTURE: 30 hours, CLASSES: 35 hours, PRACTICAL CLASSES: 45 hours	
3.2. Place of classes	Lecture - Classes in didactic rooms of the UJK Classes - Clinic of Obstetrics and Gynecology - Provincial Combined Hospital in Kielce	
3.3. Form of assessment	LECTURE - E, CLASSES - Credit with grade	
3.4. Teaching methods	<ul style="list-style-type: none"> • Multimedia presentations of the principles of diagnosis and treatment in Gynecology and Obstetrics including surgical and outpatient procedures • Seminars, lectures, discussion • Presentation of clinical cases, case study in natural conditions • Participation in consultation and senior staff meetings 	
3.5. Bibliography	Required reading	Bankowski, "John Hopkins Manual of Obstetrics and Gynecology" Berek, "Novak's Gynecology" Brian A. Magowan "Clinical Obstetrics and Gynaecology" Llewellyn-Jones "Fundamentals of obstetrics and gynaecology"
	Further reading	F. Gary Cunningham "Williams Obstetrics" Hao-Hua Wu. Gunnerm Googles "Obstetrics and Gynaecology" Nick Panay MD. "Crash Course: Obstetrics & Gynaecology" John Queean "Fetal Medicine" Catrina Bain, Kevin Burton, Jay McGavigan "Gynaecology Illustrated" Jason Abbott, Lucy Bowyer, Martha Finn "Obstetrics and Gynaecology an evidence-based guide"

4. OBJECTIVES, SYLLABUS CONTENT AND INTENDED LEARNING OUTCOMES

4.1.Course objectives(including form of classes)

Gynaecology and obstetrics course will provide an in-depth introduction to basic concepts and fundamental principles of gynaecology and obstetrics for medical students.

C1. Proper student training preparing for interpretation and understanding: the basis of obstetrics and gynaecology, organization of woman healthcare, patient case study and diagnosis making in obstetrics and gynaecology.

C2. Student should be able to link: anatomy, physiology and pathophysiology of the female reproductive system in the aspect of the human procreation.

C3. Acquisition of knowledge about the causes and symptoms of gynecological diseases.

C4. Student should get acquainted with available diagnostic techniques used in gynaecology and obstetrics.

C5. Acquire knowledge on treatment algorithms.

C6. Acquire knowledge on methods of family planning and health promotion.

4.2.Detailed syllabus(including form of classes)

Winter Semester - Semester 9th

Lectures

1. Introduction. Physiology of the menstrual cycle. Gametogenesis, fertilization and embryo development.
2. Physiological changes in pregnancy. General standards of care for healthy and pathological pregnancy.
3. Pathology of early pregnancy. Prenatal Diagnosis.
4. Obstetrical complications - diabetes in pregnancy, hypertensive disorders, gastrointestinal disorder.
5. Multifetal pregnancy - complications. Fetal therapy.

Classes

Seminar/practical classes

1. - Anatomy of the female pelvis, normal labor.
- Abnormal labor and instrumental delivery.
- Labor induction. Delivery after cesarean section.

Physiological pregnancy. Fertilization. Fetus, placenta, amniotic fluid, amniotic membrane. Changes during pregnancy.

2. - Miscarriage.
- Prenatal Diagnosis.
- Multifetal pregnancy.

Hematological and endocrine disorders during pregnancy. Rhesus incompatibility - etiology, diagnosis, treatment and prevention.

3. - Pregnancy of unknown location.
- Fetal growth disturbances.
- Infertility.

Obstetric anamnesis, obstetrical examination, assessment of the cervix by Bishop score. Methods for the assessment of fetal well-being: Cardiotocography (CTG) antenatal and intrapartal - interpretation of the record (short term variability, accelerations, decelerations). 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 labour, 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.

4. - Hypertension in pregnancy and its clinical sequels: chronic hypertension, pre-eclampsia, eclampsia. HELLP Syndrome.
 - Infectious diseases in pregnancy.
 - Fetal therapy.

The puerperium. Puerperal complications.

5. - Preterm labor.
 - Diabetes in pregnancy. Obstetric cholestasis.
 - Pathology of placenta.
 - Pharmacotherapy in pregnancy.

Post-term pregnancy, preinduction and induction of labor. Preterm delivery - causes, diagnosis, treatment (tocolitics drugs, delivery of a preterm fetus).

6. - The Newborn examination. Newborn adaptation to extrauterine life.
 - Breastfeeding. Infant feeding.
 - Overview of general problems in Newborns.
 - Neonatal jaundice.

Summer Semester - Semester 10th

Lectures

6. Adnexal tumors.
7. Endometrial pathology. Pathology of cervix.
8. Fundamentals of sexology. Family planning and contraceptions. Problems of perimenopause.
9. Infertility - diagnosis and treatment.
10. Urgent condition in gynaecology and obstetrics.

Classes

Seminar/practical classes

1. - Benign tumors in gynaecology.
 - Urinary incontinence - diagnosis and treatment.
 - Minimally invasive gynecological procedures.
 - Cervical, vaginal and vulvar cancer.

Basis of gynecological diagnosis. Ultrasonography in gynecology.

2. - Endocrinopathy in gynecology.
 - Pediatric and adolescent gynecology.
 - Congenital anomalies of the female genital tract.

Gynecological surgery - types of surgeries, qualification and preparation for the surgery, pre and postoperative care, pain management, complication.

3. - Perioperative analgesia.
 - Endometrial cancer.
 - Endometriosis.

Colposcopy. Cervical cytology.

4. - Ovarian cancer.
 - Gynecologic infections.
 - Contraception and hormone replacement therapy.

Miscarriage. Cervical insufficiency. Gestational trophoblastic disease - GTD.

5. - Neonatal resuscitation.
 - Neonatal infections.

4.3 Intended learning outcomes

Code	A student, who passed the course	Relation to learning outcomes
within the scope of KNOWLEDGE , the graduate knows and understands:		
W01	the basic ways of diagnosis and treatment of the fetus	E.W5
W02	human sexuality and fundamental disorders related there to	E.W21
W03	postoperative treatment and analgesic therapy as well as post-operative monitoring	F.W5
W04	female reproductive functions, disorders associated with them as well as diagnostic and therapeutic procedures concerning in particular: 1) the menstrual cycle and its disorders, 2) pregnancy, 3) physiological and pathological childbirth and postpartum, 4) inflammations and tumors in the genital organs, 5) birth control, 6) menopause, 7) basic methods of diagnostics and gynecological procedures	F.W9
W06	the issues concerning modern imaging tests, in particular: 1) radiological symptomatology of basic diseases, 2) instrumental methods and imaging techniques used to perform medical procedures, 3) the indications, contraindications and preparation of patients to particular types of imaging tests and contraindications the use of contrast agents	F.W10
within the scope of ABILITIES , the graduate knows how to:		
U01	identify indications for prenatal diagnosis	C.U2
U02	assess patient's general condition, consciousness and awareness	E.U7
U03	perform differential diagnosis of the most common diseases in adults and children	E.U12
U04	assess and describes the somatic and mental state of patients	E.U13
U05	recognize states of a direct threat to life	E.U14
U06	plan diagnostic, therapeutic and preventive procedures	E.U16
U07	conduct analysis of the potential side effects of each drug and the interaction between them	E.U17
U08	qualify the patient for home treatment and hospitalization	E.U20
U09	recognize states in which functional status of the patient's or his/her preferences restrict the treatment in accordance with specific guidelines for the disease	E.U21
U10	interpret laboratory test results and identify the reasons for deviations	E.U24
U11	plan specialist consultations	E.U32
U12	assist during a typical surgery, prepare the surgical site and locally anesthetize operated area	F.U1
U13	comply with the aseptic and antiseptic rules	F.U3
U14	manage simple wounds and change sterile surgical dressing	F.U4
U15	recognize signs and symptoms of abnormal pregnancy (abnormal bleeding, uterine contractions)	F.U13
U16	interpret the results of physical examination of the pregnant woman (blood pressure, heart rate of the fetus's mother) and the results of laboratory tests indicative of pathologies of pregnancy	F.U14
U17	interpret cardiotocography (CTG) record	F.U15

U18	recognize the beginning of childbirth and its abnormal duration	F.U16
U19	interpret the signs and symptoms during the postpartum period	F.U17
U20	make recommendations, indications and contraindications for the use of contraceptive methods	F.U18
within the scope of SOCIAL COMPETENCE:		
K01	establish and maintain deep and respectful contact with the patient and show understanding towards ideological and cultural differences	H.S1
K02	do what is right for the patient	H.S2
K03	respect medical confidentiality and patient's rights	H.S3
K04	take actions concerning the patient on the basis of ethical principles, being aware of social conditions and restrictions resulting from illness	H.S4
K05	recognize his/her own limitations and self-evaluate educational deficiencies and needs	H.S5
K06	promote healthy lifestyle	H.S6
K07	use reliable information sources	H.S7
K08	conclude on the basis of own surveys and observations	H.S8
K09	introduce rules of social conduct and teamwork to the group of specialists, including specialists from other medical professions also in the multicultural and multinational environment	H.S9
K10	give opinions concerning various aspects of professional activity	H.S10
K11	take responsibility for own decisions made during professional activities including own safety and safety of other people	H.S11

4.4.Methods of assessment of the intended learning outcomes																						
Teachingoutcomes (code)	Method of assessment (+/-)																					
	Exam oral/written*			Test*			Project*			Effort in class*			Self-study*			Group work*			Others* e.g. standardized test used in elearning			
	Form of classes			Form of classes			Form of classes			Form of classes			Form of classes			Form of classes						
	L	C	P CL	L	C	P CL	L	C	P CL	L	C	P CL	L	C	P CL	L	C	P CL	L	C	P CL	
W01-W05	+				+	+																
U01-U20					+	+															+	
K01-K11																						

*delete as appropriate

4.5.Criteria of assessment of the intended learning outcomes		
Form of classes	Grade	Criterion of assessment
Lectures (including e-learning)	3	61-68% of correct answers
	3,5	69-76% of correct answers
	4	77-84% of correct answers
	4,5	85-92% of correct answers
	5	93-100 % of correct answers
Classes (including e-learning)	3	Knowledge of basic content. Inconsistent answers, poor orientation in details
	3,5	Knowledge of basic content. Students need tutor's help.
	4	Solid knowledge of basic content. Answers questions without help. There are gaps in the detailed issues.
	4,5	The knowledge covers issues beyond the basic scope. Students is able to think independently and solve complex problems.
	5	Well-mastered recent knowledge based on many sources. Ability to to draw independents conclusions and to defend student's point of view.

Practical classes (including e-learning)	3	Mastering program content at the basic level, chaotic answers, guidance questions needed.
	3,5	Mastering program content at the basic level, systematized answers, guidance questions needed.
	4	Mastering program content at the basic level, systematized and independent answers.
	4,5	The scope of the presented knowledge goes beyond the basic level and is based on the supplementary literature provided.
	5	The scope of the presented knowledge goes beyond the basic level based on the supplementary literature acquired independently by the student.

5. BALANCE OF ECTS CREDITS – STUDENT’S WORK INPUT

Category	Student's workload
	Full-time studies
<i>NUMBER OF HOURS WITH THE DIRECT PARTICIPATION OF THE TEACHER /CONTACT HOURS/</i>	110
<i>Participation in lectures*</i>	30
<i>Participation in classes, seminars, laboratories*</i>	80
<i>Preparation in the exam/ final test*</i>	
<i>Others (please specify e.g. e-learning)*</i>	
<i>INDEPENDENT WORK OF THE STUDENT/NON-CONTACT HOURS/</i>	40
<i>Preparation for the lecture*</i>	20
<i>Preparation for the classes, seminars, laboratories*</i>	20
<i>Preparation for the exam/test*</i>	
<i>Gathering materials for the project/Internet query*</i>	
<i>Preparation of multimedia presentation</i>	
<i>Others *</i>	
<i>TOTAL NUMBER OF HOURS</i>	150
ECTS credits for the course of study	6

**delete as appropriate*

Accepted for execution (date and legible signatures of the teachers running the course in the given academic year)

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¹ – e-learning (lectures conducted online)