Załącznik nr 5 do zarządzenia nr 189/2025

COURSE SPECIFICATION

Course code: 0912-7LEK-C6,9-GO
Course title in Polish: Ginekologia i położnictwo
Course title in English: Gynaecology and Obstetrics

1. Placement of the course within the study programme

1.1. Field of study	Medicine
1.2. Mode of study	Full-time
1.3. Level of study	Uniform Master's study
1.4. Profile of study	General academic
1.5. Course specification author	Dr n. med. Justyna Płusajska
1.6. Contact	justyna.plusajska@ujk.edu.pl

2. Generał characteristics of the course

2.1. Language of instruction	English
2.2. Entry requirements	Basic knowledge in the field of anatomy and physiology of the female reproductive system.

3. Detailed characteristics of the course

3.1. Type of classes	LECTURE; LECTURE e-learning, CLASSES; CLASSES e-learning; PRACTICAL CLASSES
3.2. Place of course delivery	Lecture - Classes in didactic rooms of the UJK Seminars and practical classes: hospital units Clinic of Obstetrics and Gynecology - Provincial Combined Hospital in Kielce Regional Center for Maternal and Newbornis Prosta 30, 25-371 Kielce
3.3. Form of assessment	Lectures: credit with a grade and a final exam at the end of the course. Seminars – credit with a grade. Practical classes – credit with a grade.
3.4. Teaching methods	•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, patient examination, assisting in some gynecological procedures
3.5.a. Basic reading list	Bankowski, "John Hopkins Manual of Obstetrics and Gynecology" 2025 Brian Magowan "Clinical Obstetrics and Gynaecology" 2022 Berek „ Novak's Gynecology" 2025
3.5.b. Supplementary reading list	F. Gary Cunningham "Williams Obstetrics" 2022 26E "Crash Course Obstetrics and Gynaecology" For UKMLA and Medical Exams Xiu; Sia; Strong; Zengin 2024

4. Objectives, content and learning outcomes

4.1. Course objectives (taking into account the form of classes)
Lectures (including e-learning)

Gynaecolgy 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.

Classes

C1. Providing students with a structured knowledge base in the field of gynecology and obstetrics.

The goal is to familiarize students with basic concepts, classifications, and pathophysiological mechanisms related to women's health, pregnancy, childbirth, and gynecological diseases. Students will learn current guidelines and standards for clinical practice.

C2. Acquiring skills in performing basic gynecological and obstetric examination techniques

Students learn to perform a physical examination safely, professionally, and ethically. Exercises include vaginal examination, cervical assessment, abdominal palpation, and interpretation of clinical signs.

C3. Developing competencies in medical data analysis and clinical interpretation

Students are introduced to the process of evaluating laboratory, imaging (ultrasound, X-ray), cardiotocographic, and biochemical test results. They learn to recognize abnormalities, identify their possible causes, and assess their significance for the patient's clinical condition.

C4. Developing skills in planning diagnostic and therapeutic procedures for selected clinical conditions

Students acquire knowledge and practical skills in making decisions regarding diagnosis, treatment, and prevention in typical obstetric and gynecological situations, such as normal pregnancy, genital infections, menstrual disorders, and life-threatening conditions.

C5. Improving skills in recognizing pregnancy pathologies and assessing the clinical condition of the postpartum woman

Students learn to identify symptoms of abnormal pregnancy outcomes, such as pregnancy-induced hypertension, fetal growth restriction, premature rupture of amniotic fluid, and signs of threatened preterm labor. These exercises are designed to develop the ability to quickly assess the clinical situation and take appropriate action.

Practical Classes

C1. Improving skills in conducting a medical history and physical examination in gynecology and obstetrics. Students are prepared to independently and thoughtfully take medical history and perform a physical examination, taking into account the specific needs of gynecological and obstetrical patients. Emphasis is placed on accurate questions, empathetic communication, interpretation of symptoms, and medical documentation consistent with current standards.

C2. Training in planning comprehensive diagnostic, therapeutic, and preventive procedures. Students acquire competencies in developing individualized medical care plans for various clinical conditions, taking into account current guidelines, safety principles, resource availability, and patient needs. They learn to make decisions based on risk-benefit analysis.

C3. Developing skills in analyzing and interpreting the results of ancillary tests and identifying pathologies.

Students are prepared to critically evaluate the results of biochemical, imaging (ultrasound, X-ray), cardiotocography, and other tests, taking into account the clinical context. They learn to recognize abnormalities, their possible causes, and the impact on further medical management.

C4. Preparation for Active Participation in Gynecology and Obstetrics Procedures

Students acquire the knowledge and skills necessary to safely and confidently assist in surgical procedures and obstetrics. They understand the principles of aseptic technique, teamwork ergonomics, and the importance of communication within the surgical team.

C5. Developing an Attitude of Professional Responsibility and Awareness of the Consequences of Clinical Decisions Students develop competencies in making medical decisions with full responsibility for their consequences, both for the patient and the medical team. They learn to assess risk, predict the consequences of actions, and respond to crisis situations while maintaining safety principles.

C6. Strengthening Ethical Attitudes and Social Awareness in Patient Relationships

Students are prepared to maintain medical confidentiality, respect patient rights, and act in accordance with the principles of professional ethics. They develop sensitivity to the social, cultural, and psychological determinants of illness and learn to provide care with respect for the patient's dignity.

4.2. Course content (taking into count the form of classes)

Lectures

Lectures:

e-learning
1. Introduction to the physiology of the menstrual cycle.
2. Female infertility – diagnosis and management.
3. Gametogenesis, fertilization, and embryo development.

Winter Semester - Semester 9th
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. Obstetricial complications - diabetes in pregnancy, hypertensive disorders, gastrointestinal disorder.
5. Multifetal pregnancy - complications. Fetal therapy.

Summer Semester - Semester 10th
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

Winter Semester - Semester 9th
e-learning

- Basic diagnosis of gene and chromosomal mutations responsible for inherited and acquired diseases, including cancer.
- Normal human karyotype and various types of sex determination

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 diturbances.
   - Infertility.

   Obstetric anamnesis, obstetrical examination, assessment of the cervix by Bishop score. Methods for the assessment of feta well-being: Cardiotocography (CTG) antenatal and intrapartal - interpretation of the record (short term variability, accerelations, decerelations). Physiological delivery - preparing for vaginal birth. The mechanism of birth in cephalic presentation. Managment of the first stage of delivery - assessment of uterine contractions, progress of labour, fetal heart monitoring, analgesia. Managment of the second stage of delivery -the conditions necessary for fetal expulsion, episiotomy. Managment 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 comlications.

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.
   - Brestfeeding. Infant feeding.

- Overview of general problems in Newborns.
- Neonatal jaundice.

Summer Semester - Semester 10th

1. - Benign tumors in gynaecology.
   - Urinary incontienence - 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 managment, 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.

Practical Classes
Winter Semester - Semester 9th

- The student actively participates in collecting obstetric history and assessing the clinical condition of the pregnant woman, learning to recognize physiological and pathological symptoms of pregnancy.
- The student participates in interpreting the results of laboratory, imaging, and cardiotocographic tests, analyzing their significance for the health of the mother and fetus.
- The student observes and assists during both physiological and operative labor, learning the mechanisms of labor and the principles of medical interventions.
- The student learns to monitor the postpartum period, recognize its complications, and provide care for women in the postpartum period.
- The student learns the principles of prenatal screening and participates in the analysis of results, taking into account ethical and clinical aspects.
- The student participates in planning therapeutic procedures for pregnancy-related conditions such as hypertension, diabetes, and obstetric cholestasis.
- The student participates in educating patients about lactation, the postpartum period, and newborn care, promoting healthy behaviors. □

- The student practices conducting difficult conversations with the patient, including in situations involving miscarriage, the decision to terminate a pregnancy, VBAC, or unfavorable prenatal test results.

Summer Semester - Semester 10th

- The student participates in a gynecological examination, learning how to assess the menstrual cycle, identify
  its abnormalities, and recognize pathologies of the reproductive organs.
- The student assists with typical gynecological procedures, such as hysteroscopy and laparoscopy, learning the principles of aseptic technique, surgical site preparation, and minimally invasive techniques.
- The student performs basic procedures, such as wound care and dressing changes, while learning the principles of postoperative care and pain management.
- The student participates in the diagnosis and treatment of reproductive organ infections, learning microbiological methods and the principles of pharmacotherapy.
- The student participates in the qualification process for hormonal treatment and contraception, analyzing the indications, contraindications, and the patient's needs.
- Students learn how to recognize gynecological cancers, plan diagnostic imaging procedures, and collaborate
  with an interdisciplinary team.
- Students participate in specialist consultations, learning how to plan comprehensive therapeutic procedures.
- Students practice communicating with patients in intimate and emotionally challenging situations, such as infertility, menopause, and cancer.

4.3. Course learning outcomes

Course learning outcomes (code)	Upon completion of the course, the student	Alignment with programme learning outcomes
	in the area of knowledge:	
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
W05	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
	in the area of skills:	
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

in the area of social competences:

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 form 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. Assessment methods for learning outcomes

Assessment method (+/-)

Course learning outcomes (code)	Oral/written/ practical examinaion /other (specify)*	Test*	Project*	In-class activity*	Independent study*	Group work*	Other (specify)*

Type of classes

1: / 2:	L	S	…	L	S	…	L	S	…	L	S	…	L	S	…	L	S	…	L	S	…
W01	+				+	+															
W02	+				+	+															
W03	+				+	+															
W04	+				+	+															
W05	+				+	+															
U01-U20					+	+									+						
K01-K11												+			+			+			

Annotation. 1: form of classes; 2: learning outcomes

4.5. Assessment criteria for learning outcomes

Type of classes:

LECTURE (L) (including classes conducted with the use of distance learning methods and techniques)

Grade	Assessment criteria
3,0	61-68% of correct answers
3,5	69-76% of correct answers
4,0	77-84% of correct answers
4,5	85-92% of correct answers
5,0	93-100 % of correctanswers

Type of classes:

SEMINAR (S) (including classes conducted with the use of distance learning methods and techniques)

Grade	Assessment criteria
3,0	Knowledge of basic content. Inconsistent answers, poor orientation in details
3,5	Knowledge of basic content. Students need tutor's help.
4,0	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.
5,0	Well-mastered recent knowledge based on many sources. Ability to to draw independents conclusions and to defend student's point of view.

Type of classes:

OTHER (...) (including classes conducted with the use of distance learning methods and techniques)

Grade	Assessment criteria
3,0	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.
4,0	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.

5,0	The scope of the presented knowledge goes beyond the basic level based on the supplementary literature acquired independently by the student.

5. ECTS credit allocation – student workload

Category	Student workload (full-time mode)
NUMBER OF HOURS WITH THE DIRECT PARTICIPATION OF THE TEACHER (CONTACT HOURS)	**110**
Participation in lectures*	24
Participation in seminars/laboratories*	75
Other (specify) e.g. classes conducted with the use of distance learning methods and techniques*	11
INDEPENDENT STUDY (NON-CONTACT HOURS)	**40**
Preparation for lectures*	20
Preparation for seminars/laboratories*	20
Preparation for examination/test*	
Gathering materials for project, online research*	
Preparation of a multimedia presentation*	
Other (specify)*	
TOTAL HOURS	**150**
ECTS CREDITS for the course	**6**

*** delete as appropriate**

Approved for implementation (date and legible signatures of course instructors in the given academic year):

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