# DESCRIPTION OF THE COURSE OF STUDY

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| **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**

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| **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\***  | General academic |
| **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 |

1. **GENERAL CHARACTERISTICS OF THE COURSE OF STUDY**

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| **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** | 9th - 10th |
| **2.4. Prerequisites\***  | Basic knowledge in the field of anatomy and physiology of the female reproductive system. |
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1. **DETAILED CHARACTERISTICS OF THE COURSE OF STUDY**

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| **3.1.Form of classes** | **LECTURE: hours, CLASSES: 35 hours, PRACTICAL CLASSES: 45 hours** |
| **3.2.Place of classes** | Lecture - Classes in didactic rooms of the UJKClasses - Clinic of Obstetrics and Gynecology - Provincial Combined Hospital in Kielce |
| **3.3.Form of assessment** | LECTURE - E, CLASSES - Credit with grade |
| **3.4.Teachingmethods** | * 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
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| **3.5.Bibliography** | **Required reading** |  Bankowski, “John Hopkins Manual of Obstetrics and Gynecology” Brian A. Magowan "Clinical Obstetrics and Gynaecology"

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| **Further reading** | F. Gary Cunningham "Williams Obstetrics"Nick Panay MD. "Crash Course: Obstetrics & Gynaecology" |

1. **OBJECTIVES, SYLLABUS CONTENT AND INTENDED LEARNING OUTCOMES**

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| **4.1.Course objectives*(including form of classes)***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. |
| **4.2.Detailedsyllabus*(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***.Obstetricial 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 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****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 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. |

**4.3 Intended learning outcomes**

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| **Code** | **A student, whopassed 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 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 |

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| **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*** | ***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***

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| **4.5.Criteria of assessment of the intended learning outcomes** |
| **Form of classes** | **Grade**  | **Criterion of assessment** |
| **Lecures (including e-learning)** | **3**  | 61-68% of correct ans wers |
| **3,5** | 69-76% of correct ans wers |
| **4** | 77-84% of correct ans wers |
| **4,5** | 85-92% of correct ans wers |
| **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 stdent’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. |

1. **BALANCE OF ECTS CREDITS – STUDENT’S WORK INPUT**

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

***\*delete as appropriate***

***Accepted for execution****(date and legiblesignatures of the teachersrunning the course in the givenacademicyear)*

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1 – e-learning (lectures conducted online)