**SYLLABUS**

Academic year 2017/2018

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| **Name of course / module** | Gynecology and Obstetrics |
| **Names of departments where course are held** | Department of Perinatology (+Department of Neonatology and Newborn Intensive Care)Department of Gynecology and Gynecological OncologyDepartment of Re-productivness and Gynecological Endocrinology |
| **E-mail of department** | uterus@umb.edu.pl (+ szczepanski5@gazeta.pl ) ginekol@umb.edu.pl endorepro@umb.edu.pl |
| **Faculty of** | Medicine with Division of Dentistry and Division of Medical Education in English |
| **Name of field of study** | medical |
| **Level of education** | First degree studies, Uniform master’s degree studies |
| **Form of study**  | full time x part time x |
| **Language of instruction** | Polish ☐ English x |
|  **Type of course** | obligatory x facultative☐ |
|  **Year of study / Semester** | I ☐ II ☐ III ☐ IV x V x VI x  | 1 ☐ 2☐ 3 ☐ 4☐ 5 ☐ 6 ☐ 7 ☐ 8 x 9 x 10☐ 11 x 12☐ |
| **Introductory courses with preliminary requirements** | Anatomy, Phisiology, Pathopfisiology, Pathomorphology, Internal Medicine, SurgeryImplementation of learning outcomes in terms of knowledge, skill sets and competencies of the previous years of study in the field |
| **Number of didactic hours with specification of forms of conducting classes** | Department of Perinatology:IV year – lectures - 10; classes – 12; seminars – 5; faculties – 15; V year – lectures – 10; classes – 19; seminars – 14; faculties – 15; VI year – classes – 20; Department of Neonatology and Newborn Intensive Care:IV year – lectures - 2; classes – 5; seminars – 5; V year – lectures - 2; classes – 5; seminars – 5;VI year – classes – 15; Department of Gynecology and Gynecological Oncology:IV year – lectures – 4; classes – 11; seminars – 10;V year – lectures – 16; classes – 22 ;seminars – 9; VI year – classes – 15;Department of Re-productivness and Gynecological Endocrinology:IV year – lectures – 4; classes -7; seminars -5;V year – lectures – 12 ; classes – 14; seminars – 7; faculties – 15; VI year – classes – 10;  |
| **Assumptions and aims of the course** | Department of Perinatology:ASSUMPTIONSGaining knowledge in:* Physiological pregnancy – principal definitions, diagnosis of early and advanced pregnancy
* Problems of prenatal care – preventive examination, obstetric examination, examination in high-risk pregnancy, ultrasonography (USG) and cardiotocography (CTG)
* Pregnant’s diseases – specific pregnancy diseases, pregnancy-induced hypertension, eclampsia, HELLP syndrome, other maternal diseases, Gestational Diabetes Mellitus.
* Complications in advanced pregnancy – preterm labour, intrauterine growth restriction, postterm pregnancy, intrauterine fetal death, fetal diseases
* Labour process: normal delivery, complicated labour
* Basic issues of neonatal period

AIMS:Gaining skills in: * Pregnancy detection, diagnosing pregnancy signs
* Basic of obstetric examination (internal and external)
* Basic ultrasonography (USG) and cardiotocography (CTG) assessment
* Basic diagnosis and treatment of specific pregnancy diseases
* Performing physiological and complicated labour
* Ceasarean section indication assessment
* Patient examination in postpartum
* Newborn assessment (APGAR score)
* Basics of newborn resuscitation

Department of Gynecology and Gynecological Oncology:ASSUMPTIONS:Gaining knowledge in:* development anatomy and physiology of female reproductive system
* congenital defects of female reproductive organs
* pelvic organ prolapse
* infections of female reproductive organs
* chronic pelvic pain syndrome
* urogynecology (urinary incontinence at women)
* gynecologic oncology
* surgical treatment in gynecology
* combination therapy in malignant diseases of female reproductive organs
* diagnosis and prevention in gynecology

AIMS:Gaining skills in:* taking medical history and performing physical examination
* assessing development of femal reproductive organs
* selecting criteria of diagnostic procedures for each parts of female reproductive organs
* diagnostic procedure in chronic pelvic pain syndrome
* diagnostic procedure in urinary incontinence at women
* choice of preventive medical examination in malignant diseases of female reproductive system
* diagnostic procedure in abnormal bleeding in menopause
* selecting treatment methods of gynecological diseases (conservative or surgical management)
* classifying and preparing patient for gynecological surgery
* classifying patient for minimal-invasive surgical procedures (laparoscopy and hysteroscopy)

Department of Re-productivness and Gynecological Endocrinology:ASSUMPTIONS:Gaining knowledge in:* basic functions of male and female reproductive system (germinal and hormonal function)
* physiology and regulation of normal female menstrual cycle, puberty
* endocrinology of pregnancy
* endocrinology of menstruation
* basic elements and providing preconception counseling
* diagnosis of infertility principles
* principles of planned parenthood and birth control
* diagnostic process in gynecological endocrinology

AIMS:Gaining skills in:* assessing menstrual cycle and diagnosis its abnormalities, choosing diagnosis procedure
* assessing the process of female puberty
* diagnostic procedures in menopause
* selecting patients with potential reproductive problems in the future
* counselling infertile couples
* classifying for specific birth control methods and hormonal therapy in menopause
* diagnosis and selection of hormonal tests in diseases in gynaecological endocrinology
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| **Didactic methods** | - providing knowledge in a form of a lecture- consultation (both regular and organized in individual cases): Department of Perinatology: Monday from 12:00 to 14:00; Department of Gynecology and Gynaecological Oncology: Thursday from 12:00 to 14:00; Department of Reproductive Medicine and Gynaecological Endocrinology: consultation organised once a month/first Tuesday of the month from 12:00 to 14:00- discussion- presentations- case descriptions- self study- study of the literature- other practical classes (manikins) |
| **Full name of the person conducting the course** | Scientific and teaching staff employed at the Department of Perinatology (+ Department of Neonatology and Newborn Intensive Care), Department of Reproductive Medicine and Gynaecological Endocrinology and in Department of Gynecology and Gynaecological Oncology |
| **Full name of the person responsible for teaching** | Department of Perinatology - *dr hab. Piotr Laudański* (+ Department of Neonatology and Newborn Intensive Care - *dr hab. M. Szczepański*), Department of Reproductive Medicine and Gynaecological Endocrinology - *prof. dr hab. Sławomir Wołczyński*, Department of Gynecology and Gynaecological Oncology - *prof. dr hab. Jacek Szamatowicz* |

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| **Symbol and number of learning outcomes according to the teaching standards and other learning outcomes** | **Description of directional learning outcomes** | **Form of classes** | **Verification methods for achieving intended learning outcomes** |
| **Knowledge** |
| E. W5 | The graduate knows: basic methods of diagnostics and therapy of the fetus; | Lect.Semin.Class.Solving practical clinical problemsElective courses | Summarizing methods:- oral exam- written exam (multiple choice test)Forming methods:- pretest- observation of the student’s work- evaluation of the activity in the classroom- assessment of preparation for classes- discussion in class- partial tests- case description |
| F. W3 | knows the principles of qualification and execution of basic surgical procedures and knows its most frequent complication; knows invasive diagnostic and therapeutic procedures;  | Lect.Semin.Class.Solving practical clinical problemsElective courses |  |
| F. W9 | knows reproductive functions of a female, principles of diagnosis and therapy of its dysfunctions, especially concerning:1.  Menstrual cycle and its disorders,2. Pregnancy,3. Physiological and pathological labour, postpartum period,4. Inflammation and neoplasms of sexual organs,5. Birth control,6. Menopause,7. Basic diagnostic procedures and gynaecological interventions. | Lect.Semin.Class.Solving practical clinical problemsClasses held at the Department of MedicalSimulationsElective courses |
| **Skills** |
| F.U1 | assists in the typical surgery, prepares the operative field and administers local anaesthetic to the operated area; | Class. |  |
| F.U2 | handles basic surgical instruments | Class. |
| F.U3 | complies with rules of asepsis and antisepsis | Class. |
| F.U4 | manages a simple wound, applies and changes sterile dressings | Class. | Summarizing methods:- practical exam (with manikin)- performing the taskForming methods:- observation of the student’s work- evaluation of the activity in the classroom- completion of each activity- assessment of preparation for classes- case description |
| F.U5 | inserts peripheral venous catheter | Class. |
| F.U6 | examines breasts, lymph nodes, thyroid gland, abdomen in the aspect of acute abdomen, performs per rectum examination | Lect.Class. |
| F.U13 | knows the signs and symptoms of the pathological course of pregnancy (abnormal bleeding, uterine contractions); | Lect.Semin.Class.Solving practical clinical problemsClasses held at the Department of MedicalSimulationsElective courses |
| F.U14 | interprets the results of physical examination of pregnant woman (blood pressure, maternal heart rate, fetal heart rate) and laboratory tests results in pathological pregnancy | Lect.Semin.Class.Solving practical clinical problems |
| F.U15 | interprets the cardiotocography (CTG) trace | Lect.Semin.Class.Solving practical clinical problemsElective courses |
| F.U16 | recognises signs of labour and its abnormal duration; | Lect.Semin.Class.Solving practical clinical problemsClasses held at the Department of MedicalSimulations |
| F.U17 | interprets signs and symptoms in the postpartum period | Lect.Class. |
| F.U18 | determines recommendations, indications and contraindications to methods of contraception; | Lect.Semin.Solving practical clinical problems |
| EU8 | evaluates the status of the newborn infant using Apgar score and its gestational age, examines neonatal reflexes | Lect.Semin.Class. |  |
| **Social competence** |
| K2  | is able to cultivate deep and respectful contact with the patient | Classes | Summarizing methods:- assessment by the assistant (observation)Forming methods- observation of the student's work- discussion in class- opinion of patients, colleagues |
| K3 | is motivated above all by the benefit of the patient | Lectures, classes |
| K1 | respects physician-patient privilege and patients’ rights | Lectures, classes |
| K4 | is able to asses his/her own limitations and continue education | Lectures, classes |

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| **ECTS points** | IV year – 5; V year – 6, VI year – 4 |
| **Student** **Workload** |
| **Form of activity** | **Number of hours** **to complete the** **activity** |
| **Classes that require the participation of a teacher** |
| 1. Realization of the course: lectures (according to the curriculum )
 | 20 40 24 |
| 1. Realization of the course: classes (according to the curriculum )
 | 50 80 74 |
| 1. Realization of the course: seminars; (according to the curriculum)
 | 10 15 12 |
| 1. Realization of the course: electives
 | * 30 10
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| 1. Participation in consultation
 | **Department of Perinatology :** Monday 12:00-14:00;**Department of Gynecology**: Thursday 12:00-14:00; **Department of Reproduction and Gynaecological Endocrinology:** individual or group consultations organised once a month/ every first Tuesday 12:00-14:00 |
|  | Total hours: 280 |
| **Student self-study** |
| 1. Preparation for the theoretical and practical classes (realization of projects, documentation, case description etc.)
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| 1. Preparation for tests/credits
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| 1. Preparation for an exam/final test-credit
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|  | Total hours:  |

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| **Course content:** |
| **Educational outcomes (symbol and number)** | **Subjects** |
| **E.W5. The student knows the basic methods of diagnosis and treatment of fetus;** | **Lectures IV:****Department of Perinatology**Multiple pregnancyNewborn **( Department of Neonatology and Neonatal Intensive Care)****Seminars IV:****Department of Perinatology**CTG examination.Stillbirth.The immunology of pregnancy. Rh disease.USG examination in pregnancy.Genetic factor in miscarriages and stillbirth.Pharmacotherapy in pregnancy.**Department of Neonatology and Neonatal Intensive Care**Maturity assessment and examination of a newborn.Feeding of newborns and preemies.Adaptation of neonate to extrauterine life, transition states.Congenital malformations.Perinatal injuries.**Department of Gynecology and Gynecological Oncology**Imaging techniques in gynaecology (USG).Elective IV**Department of Perinatology**Fetal surgery. Actual state and prospects for the future.Fetal therapy recommendations.Fetal acute life-threatening condition. Diagnostics, procedures.Assessment of fetal welfare. (USG, CTG, biophysical profile)**Classes IV**Neonatology and Neonatal Intensive Care ClinicDiscussion on hospitalized infants.Physical examination of the newborn.Discussion on additional testsperformed onnewborn.Introduction to pathology of neonatal period.**Lectures V****Department of Perinatology**Prenatal diagnostics.Methods of intrauterine treatment of a fetus.Premature birth. Amniotic membrane and amniotic fluid pathology.Perinatal infections. Intrauterine infection. Prophylaxisof streptococcal infections.Life-threatening conditions in pregnant. Pregnancy and parturition in woman with cardiovascular diseases, kidney diseases, diabetes.Diagnostic and therapeutic procedures in pregnant.Neonatal pathology. (Neonatology and Neonatal Intensive Care Clinic)**Seminars V** **Department of Perinatology**Emergency in obstetrics.Abnormal pregnancy duration. Diagnostics and procedures.Diabetes and metabolic syndrome in pregnant. Maternity care in women with pregestational diabetes.Ultrasound examination of fetal heart.Intrauterine growth restriction.**Seminars V**(Neonatology and Neonatal Intensive Care Clinic)Intrauterine asphyxia.Preemie.Intrauterine hypotrophy.Jaundices of neonatal period.Infant resuscitation.Fetal therapy recommendations.**Seminars V:****Department of Perinatology**Fetal anatomy assessment in 20-22 week of pregnancy in ultrasound examination.Caesarean section ultrasound recommendations.Doppler ultrasonography in the detection of fetal hypoxia.**Classes V:** (Neonatology and Neonatal Intensive Care Clinic)Discussion on hospitalized infants.Physical examination of the newborn.Discussion on additional tests performed onnewborn.Introduction to pathology of neonatal period.**Classes VI** (Neonatology and Neonatal Intensive Care Clinic)Discussion on hospitalized infants.Physical examination of the newborn.Discussion on additional tests performed on newborn.Introduction to pathology of neonatal period.**Department of Perinatology** (solving clinical problems)Pharmacotherapy of premature birth.Cholestasis of pregnancy treatment and diagnostics.Diagnostics of chromosomal aberration in first trimester of pregnancy |
| **F.W3****knows policies of qualification, performance and complications of basic surgical procedures and invasive diagnostic and therapeutic procedures** | **Lectures IV:****Department of Gynecology and Gynecological Oncology** Control of pregnant woman and patient with gynecological conditions – policies of three-stage selective care.**Seminars IV:****Department of Perinatology**Immunology of pregnancy. Rh incompatibility. Ultrasonography during pregnancy.**Department of Gynecology and Gynecological Oncology** Techniques of imaging in gynecology (USG). Prevention and early diagnostics of neoplasms in reproductive organ. Abnormal uterine bleeding. Diagnostics and procedures.**Department of Reproduction and Gynecological Endocrinology**Several issues related to pediatric and adolescent gynecology: foreign body in vagina, inflammation and neoplasms of reproductive organ. Benign uterine tumors – impact on reproduction.**Elective courses IV:****Department of Perinatology**Genetics in perinatology – interesting case reports.**Classes IV:*** taking gynecological and obstetrical interview
* gynecological and obstetrical examination
* assistance in gynecological and obstetrical surgical procedures
* mastering the ability of assessment obstetrical situation and prognosis of delivery; assistance in delivery.

**Lectures V:****Department of Perinatology**Prenatal diagnostics. Methods of intrauterine treatment of fetus. Perinatal infections. Intrauterine infection. Prevention of streptococcal infection. Life-threatening states of pregnant woman. Process of pregnancy and delivery of women with diabetes, cardiovascular system and renal diseases. Diagnostic and therapeutic process in pregnancy.**Department of Gynecology and Gynecological Oncology**Neoplasms during pregnancy. Acute gynecological conditions – ectopic pregnancy, ovarian cyst torsion, acute adnexitis, genital injuries. Endometriosis. Endoscopic procedures in gynecology – indications to perform laparoscopy, hysteroscopy. Techniques and complications. Pelvic organ prolapse and urological issues in gynecology. Eligibility of patients and surgical techniques. Clinical issues, diagnosing and treatment of genital tract tumors. Prevention of neoplasms.**Department of Reproduction and Gynecological Endocrinology**Endocrinological diseases during pregnancy. Diagnostics and modern methods of infertility treatment. Benign and malignant mammary gland diseases. **Seminars V:****Department of Perinatology**Emergencies in obstetrics. Shoulder dystocia.Abnormal length of gestation. Diagnostics and procedures.Surgical issues and injuries during pregnancy.Ending labor procedures (obstetric surgeries) - Caesarean section, obstetric forceps, vacuum extraction, assisted vaginal delivery, internal and external rotation - indications, terms and technique **Department of Gynecology and Gynecological Oncology** Differential diagnosis of ovarian tumorsOpetarive techniques in gynecologyComplicatons after gynecology operationsInvasive and noninvasive diagnostic procedures in gynecology**Faculty V****Department of Perinatology** Fetal surgery. Accurate state and perspectives for the future. Fetal treatment recomendations. **Classes V**- taking medical history in terms of gynecology and obstetrician- obstetric and gynecological examination- assist in obstetric and gynecological operations- acquire skills of assesment in obstetric situtation and prognosis of course of a childbirth; assisting in a childbirth- observation and monitoring postoperative patients- skill of recognising early and late postoperative complications, diagnostic and therapeutic management **Classes VI**- taking medical history in terms of gynecology and obstetrician- obstetric and gynecological examination- assist in obstetric and gynecological operations- acquire skills of assesment in obstetric situtation and prognosis of course of a childbirth; assisting in a childbirth- observation and monitoring postoperative patients- skill of recognising early and late postoperative complications, diagnostic and therapeutic management **Department of Gynecology and Gynecological Oncology** (practical solving clinical problems)Vesicouterine fistula in woman at reproductive ageSymultaneous giant tumours in patients operated due to ovarian cancer |
| **F.W9****Has knowledge about sexual functions of a woman, dysfunctions of those and diagnostic and therapeutic procedures of:****- menstrual cycle and its dysfunction,****- pregnancy,****- physiological and pathological labour and postpartum,****- inflammatory and tumorous processes of genitals,****- contraception,****- menopause****- basic diagnostic and surgical procedures** | **Lectures IV****Department of Perinatology** Preconceptive guidancePostpartum, lactation and patology of postpartum period**Department of Gynecology and Gynecological Oncology** Supervision of pregnant patient and patient with gynecological disease - rules of three-staged selective care.Physiology and patology of reproductive process in man. **Department of Reproduction and Gynecological Endocrinology**Sexual cycle of woman.Dysfunctions of sexual cycle. Procreation in human - insemination, embryo devekpment, implantation, growth of fetusStructure and activity of placenta and fetal membranes. Endocrynology of fetus. **Seminaries IV:****Department of Perinatology** Fetal deathPregnancy immunology. Serological conflict. Genetic factor in misscariage and stillbirth. USG in pregnancy.Hypertension in pregnancy.Pharmacotherapy in pragnancy**Department of Gynecology and Gynecological Oncology** Urinary continence. Physiology of pelvic statics. Imaging techniques in gynecology (USG).Abnormal uternie bleeding. Diagnostic procedures and treatment. Vaginal inflammations. Prevention and early diagnosis of tumorous genital diseases. **Department of Reproduction and Gynaecological Endocrinology**Bening uterine tumors- influence on female reproduction.Selected problems in pediatric and girls' gynecologic: foreign bodies in vagina, inflammations and tumors of the reproductive organs.Amenorrhea: causes and diagnosis.**Class IV**-taking ginecological and obstetric history.-obstetric and gynecological examination.-assisting in obstetric and gynecological operations.-acquiring skill to assess obstetric conditions and prognosis for the labor course.-practises on gynecological and obstetric phantoms.**Lectures V:****Department of Perinatology**Diagnostic and therapeutic procedures in pregnancy.**Department of Gynecology and Gynecological Oncology**Sexually transmitted diseases and inflammation of reproductive organs.Acute gynecological conditions: ectopic pregnancy, ovarian torsion, acute adnexitis, genital injuries.Endometriosis.Acute abdomen- gynecological or surgical problem?Endoscopic procedures in gynecology- indications for laparoscopy, hysteroscopy. Technique of completion, complications.Pelvic organs prolapse and urological problems in gynecology. Qualifications of patients and surgical techniques.Clinic, identification and treatment tumors of reproductive organs.Preventions of female cancers.**Department of Reproduction and Gynaecological Endocrinology**Endocrinological diagnosis in obstetric and gynecology.Hyperprolactinaemia.Diagnosis and modern methods of infertility treatment.Woman in peri- and postmenopausal period. Risk and advantages of HRT.Benign and malignant diseases of breast gland.**Seminar V:****Department of Perinatology**Obstetric emergencies.Shoulder dystocia.Incorrect duration of pregnancy. Diagnostics and proceedings.Diabetes and metabolic syndrome in pregnant woman. Obstetric care for a pregnant woman with PDM (Pregestational Diabetes Mellitus).Surgical disorders and injuries in pregnancy.Cancers with genetic basis.Intrauterine Growth Restriction.Procedures ending labor (obstetric operations): cesarean section, forceps delivery, vacuum-assisted vaginal delivery, auxillum manuale, external and internal cephalic version- indications, conditions, technique of process. **Department of Gynecology and Gynecological Oncology**Differential diagnosis of ovarian tumors.Surgical techniques in gynecology.Chronic pelvic pain syndrome.Complications after gynecological operations.Invasive and non-invasive diagnostic in gynecology.Medical treatment of victims of rape and acts of harlotry.**Department of Reproductivon and Gynaecological Endocrinology**Puberty disorders: precocious puberty, delayed puberty.Menorrhagia during puberty in girls.Policystic ovary syndrome. Diagnosis and proceeding.Premature ovarian failure.Disorders of sex development.**Class V:**-taking ginecological and obstetric history- obstetric and gynaecological examination- assisting at obstetric and gynaecological procedures- gaining an ability of evaluating the obstetric case and the prognosis considering the delivery process; assisting at the delivery- postsurgical patients’ observation and follow-up - classes with obstetric and gynaecological mannequins**Elective V:****Department of Reproduction and Gynaecological Endocrinology**How to treat infertility?Gonadal dysgenesisOvulation inductionPregnancy endocrinology**Classes VI:**- taking a gynaecological and obstetric history- obstetric and gynaecological examination- assisting at obstetric and gynaecological procedures- gaining an ability of evaluating the obstetric case and the prognosis considering the delivery process; assisting at the delivery- postsurgical patients’ observation and monitoring- classes with obstetric and gynaecological mannequins**Department of Gynecology** (practical clinical problems solving)Biological therapy in reproductive organs neoplasmsEctopic pregnancyFertility preservation treatment in women with reproductive organs neoplasmsDisorders of sex development and infertility**Department of Reproduction and Gynaecological Endocrinology** (practical clinical problems solving)Hyperandrogenism – clinical managementHyperprolactinemia – when and how to diagnose and treat?Management of normal delivery – Department of Medical SimulationsManagement in suspected ectopic pregnancy – Department of Medical SimulationsDifferential diagnosis of right iliac fossa pain – Department of Medical Simulations |
| **F.U1****asissts at the routine procedure, prepares an operative field, anesthetizes locally the operative area** | **Classes IV, V and VI:**- assisting at obstetric and gynaecological procedures |
| **F.U2****uses basic surgical instruments** | **Classes IV, V and VI:**- assisting at obstetric and gynaecological procedures |
| **F.U3****follows the principles of the aseptic technique** | **Classes IV, V and VI:**- assisting at obstetric and gynaecological procedures |
| **F.U4****treats a simple wound, applies and changes an aseptic dressing** | **Classes IV, V and VI:**- assisting at obstetric and gynaecological procedures |
| **F.U5****places a peripheral intravenous access** | **Classes IV, V and VI:**- assisting at obstetric and gynaecological proceduresClasses V and VI- ability of recognizing early and late postsurgical complications; diagnostic and therapeutic management |
| **F.U6** **examines mammary glands, lymph nodes, thyroid gland and abdominal cavity in terms of acute abdomen, as well as performs a per rectum examination;** | **Lectures V:****Department of Gynecology and Gynecological Oncology** Acute gynecological conditions - ectopic pregnancy, torsion of ovarian cyst, acute adnexitis, genital injuries.“Acute abdomen” - a problem of a gynecologist or surgeon?**Classes IV, V and VI:****-** obstetric and gynecological examination - exercises on obstetric and gynecological phantoms |
| **F.U13****recognizes symptoms and signs that indicate abnormal course of pregnancy (abnormal bleeding, contractile activity of the uterus);** | **Lectures IV:****Department of Perinatology**Bleeding in early pregnancy. Miscarriages. Second and third trimester bleeding.Clinical course of labour. Normal and pathological contractile activity.Pathology of labour: abnormal labour progression, labour dystocia.Multiple pregnancy**Department of Gynecology and Gynecological Oncology**Supervision of a pregnant woman and a patient with gynecological diseases - rules of three-step selective care.**Seminars IV:****Department of Perinatology** Antiphospholipid syndrome (APS). Recurrent pregnancy loss - diagnostic criteria, clinical consequences and procedure.Intrauterine death.Genetic factor in miscarriages and intrauterine death.Hypertension in pregnancy.**Facultative classes IV:****Department of Perinatology** Acute fetal distress. Diagnostics, procedure. Assessment of fetal well-being (USG, CTG, biophysical profile)Sudden urological conditions during pregnancy. Physiology of amniotic fluid. Oligohydramnios.**Classes IV:**- gynecological and obstetric history taking,- obstetric and gynecological examination,**Lectures V:** **Department of Perinatology**Preterm birth. Pathology of fetal membranes and amniotic fluid. Perinatal infections. Intrauterine infections. GBS prevention.Life-threatening conditions of a pregnant mother. Course of pregnancy and labour in women with cardiovascular diseases, renal diseases, diabetes. Diagnostic and therapeutic procedures in pregnancy.**Department of Gynecology and Gynecological Oncology**Neoplastic diseases in pregnant women.**Department of Reproductiveness and Gynecological Endocrinology**Endocrine diseases in pregnancy.**Seminars V:** **Department of Perinatology** Sudden cases in obstetrics.Shoulder dystocia. Abnormal duration of pregnancy. Diagnostics and procedures.Diabetes and metabolic syndrome in pregnancy. Obstetric care for a pregnant woman with pregestational diabetes. Surgical disorders and injuries during pregnancy. Intrauterine growth restriction.**Facultative classes V:****Department of Perinatology** Fetal-maternal hemorrhage.Diagnosis and management of premature uterine contractions. Amniotic fluid embolism.Thrombophilia - as an important factor in reproductive failures.**Classes V:**-taking gynecological and obstetrical interview-gynecological and obstetrical examination-assistance in gynecological and obstetrical surgical procedures-acquire skills of assesment in obstetric situtation and prognosis of course of a childbirth; assisting in a childbirthpractising on gynecological and obstetric phantoms.**Classes VI:**-taking gynecological and obstetrical interview gynecological and obstetrical examination-assistance in gynecological and obstetrical surgical procedures-acquire skills of assesment in obstetric situtation and prognosis of course of a childbirth; assisting in a childbirthpractising on gynecological and obstetric phantoms.**Department of Perinatology**(practical solving clinical problems)prevention and treatment of preeclampsialack of progress in labour during the first stage of labourprocedures in bleeding after birth guide (Medical Simulating Centre) |
| **F.U14****Interprates physical examination results of pregnant (blood pressure, mother and fetus hearth rate) and laboratory results in abnormalities of pregnancy** | **Lectures IV:****Department of Perinatology**Detection and counselling pregnancy. Physiological changes in pregnancy. Pathophysiology and treatment of everyday complaints in pregnant.Gestational trophoblastic diseseaseMultiple pregnancy**Department of Gynecology and Gynecological Oncology**Supervision of pregnant and gynecological patient – three-level selective care principles.**Seminars IV:****Department of Perinatology**Antiphospholipid syndrome (APS). Recurrent pregnancy loss - diagnostic criteria, clinical consequences and procedure.Intrauterine death.Pregnancy immunology. Serological conflict. Hypertension in pregnancy.**Classes IV:** acquire skills of assesment in obstetric situtation and prognosis of course of a childbirth; assisting in a childbirth**Lectures V:****Department of Perinatology**Perinatal diagnostics. Intrauterine fetus therapy methods.Preterm labour. Pathology of fetal membranes and amniotic fluid.Perinatal infections. Intrauterine infection. GBS prevention.Life-threatening conditions in pregnancy for mother.Gestation and childbirth in women with cardiovascular diseases, nephropathy and diabetes.Diagnostic and therapeutic procedures in pregnancy**Department of Gynecology and Gynecological Oncology**Malignant diseases in pregnancy.**Department of Reproduction and Gynecological Endocrinology**Endocrine diseases in pregnancy.**Semianars V:****Department of Perinatology**Diabetes and metabolic syndrome in pregnancy. Obstetric healthcare in pregestational diabetesSurgical diseases and traumas in pregnancy**Classes V:**acquire skills of assesment in obstetric situtation and prognosis of course of a childbirth; assisting in a childbirth**Classes VI:** acquire skills of assesment in obstetric situtation and prognosis of course of a childbirth; assisting in a childbirth**Department of Perinatology**(practical solving clinical problems)prevention and treatment of preeclampsiaDiagnostics and treatment of intrahepatic cholestasis of pregnancy (ICP) |
| **F.U15 Cardiotocography (CTG) interpretation** | **Seminars IV:****Department of Perinatology**CTG.**Lectures V:****Department of Perinatology**Preterm birth.Perinatal infections. Intrauterine infection. Life-threatening conditions in pregnancy for mother.Gestation and childbirth in women with cardiovascular diseases, nephropathy and diabetes.Diagnostic and therapeutic procedures in pregnancy.**Seminars V:****Department of Perinatology**Abnormal duration of gestation. Diagnostics and management. Diabetes and metabolic syndrome in pregnancy. Obstetric healthcare in pregestational diabetes.Intrauterine growth restriction (IUGR)**Faculties V:****Department of Perinatology**Fetal emergencies in obstetrics. Diagnostics, management. Assessment of fetal well-being (ultrasound, CTG,  biophysical profile)**Classes IV, V & VI:**Evaluation of obstetrical situation and prognosis for labor. Delivery assistance.**Classes VI:****Department of Perinatology** (clinical problem solving)Intrauterine growth restriction. |
| **F.U16 Identification of the onset of labour and its abnormal duration;**  | **Lectures IV:****Department of Perinatology**Clinical course of labor. Normal and abnormal uterine contractions. Labor disorders: Labor progression disorder, obstructed labor.**Lectures V:****Department of Perinatology**Preterm labor. Pathology of amniotic sac and amniotic fluid.Perinatal infections. Intrauterine infection.**Seminars V:****Department of Perinatology**Abnormal duration of gestation. Diagnostics and management.**Classes IV, V & VI:*** gynecology and obstetric interview,
* gynecology and obstetric examination,
* evaluation of obstetric situation and prognosis for labor. Delivery assistance.
* assistance at obstetric surgeries

**Classes VI:****Department of Perinatology** (clinical problem solving)Pharmacotherapy of preterm labor.Management of normal labor and delivery - at the Medical Simulation Centre. |
| **F.U17 Interprets signs and symptoms during the confinement;** | **Lecture IV:** **Department of Perinatology**Confinement, lactation and the pathology of the puerperal period.**Classes IV, V, VI:**- collecting the obstetric history,- gynecological examination of patients in puerperium,- observation and monitoring of patients in puerperium after the physiological delivery, Caesarean and surgical termination of pregnancy. |
| **F.U18 Sets recommendations, indications and contraindications about the use of methods of contraception;** | **Lecture IV:** **Department of Perinatology**Pre-conception counseling.**Lecture V:****Department of Re-productivness and Gynecological Endocrinology**Family planning.**Seminar V:****Department of Re-productivness and Gynecological Endocrinology**Polycystic ovary syndrome. Diagnosis and procedure.**Class VI:****Department of Re-productivness and Gynecological Endocrinology** (practical solving of clinical problems)Contraception for women with medical problems. |
| EU8 evaluates the state of the newborn on the Apgar scale, examines newborn reflexes | **Lecture IV:** **Department of Perinatology**Newborn. **(Department of Neonatology and Newborn Intensive Care)****Seminar IV: (**Department of Neonatology and Newborn Intensive Care**)**Maturity assessment and newborn examination.**Class IV: (Department of Neonatology and Newborn Intensive Care)**Cases of hospitalized newborns. Physical examination of the newborn.Additional tests performed on the newborn.Familiarization with the pathology of the neonatal period.**Lecture V:****Department of Perinatology**Pathology of the newborn. **(Department of Neonatology and Newborn Intensive Care )****Seminars V: (Department of Neonatology and Newborn Intensive Care)**Perinatal asphyxia.Preemie.Intrauterine Growth Restriction.**Class V: (Department of Neonatology and Newborn Intensive Care)**Cases of hospitalized newborns. Physical examination of the newborn.Additional tests performed on the newborn.Familiarization with the pathology of the neonatal period.**Class VI: (Department of Neonatology and Newborn Intensive Care)**Cases of hospitalized newborns. Physical examination of the newborn.Additional tests performed on the newborn.Familiarization with the pathology of the neonatal period. |

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| **Basic literature:** |
| **Gynecology and Obstetrics:****Neonatology:** |
| **Supplementary literature:** |

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| **Criteria for assessing the achieved outcomes and the form and conditions for receiving credit:** Students who can’t take part in classes in appointed date due to excused reasons (doctor’s note, Dean’s leave, documented random events) can ‘make up’ these classes with an alternative group, after earlier agree a date with Coordinator.Requirement to pass the obstetrics and gynecology course on the IVth, Vth and VIth year is presence and active participation in all obligatory didactic classes and a passing grade on written exam after all scheduled exercises have been completed accordingly on the IVth and Vth year (a set of applicable issues is posted on the bulletin board).Before proceeding the final exam, every VIth year student should pass the practical exam at the designated research and teaching/teaching staff, in organizational units leading classes (case presentation – selected disease entity: case-taking, physical examination, proposition of diagnostic investigations, making a diagnosis, proposition of medical treatment, prognosis, and thus a practical solving a clinical problem).The exam takes place in the winter session (semester XIth) and consists of 2 parts:Part 1 – test composed of 100 questions, and is scheduled for 100 minutes. If fail the test, re-entering this form of exam is required.Part 2 – oral exam consisting in providing an exhaustive answer to given clinical topics (student lot a set of 3 questions) before the examination board. The board consists of 2 specialists in obstetrics and gynecology. Requirement to pass the subject is getting a positive rating from all parts of the exam.Exemptions from the exam aren’t predicted. Documentation concerning course of the obstetrics and gynecology course together with examination works is stored for 5 years from the end of the case in Department of Reproduction and Gynaecological Endocrynology archieve. |

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(date and signature of the person who has written out the syllabus)