MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE SUMY STATE UNIVERSITY

Academic and Research Medical Institute Кафедра акушерства, гінекології та планування сім'ї

OBSTETRICS AND GYNECOLOGY

Higher education level	The Second
Major: study programme	222 Medicine: Medicine

DATA ON APPROVAL

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Considered and approved at the meeting of the Кафедра акушерства, гінекології та планування сім'ї	Head of the Department
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SYLLABUS

1. General information on the course

Full course name	Obstetrics and Gynecology
Full official name of a higher education institution	Sumy State University
Full name of a structural unit	Academic and Research Medical Institute. Кафедра акушерства, гінекології та планування сім'ї
Author(s)	Herasymenko Svitlana Fedorivna, Nikitina Iryna Mykolaivna
Cycle/higher education level	The Second Level Of Higher Education, National Qualifications Framework Of Ukraine – The 7th Level, QF-LLL – The 7th Level, FQ-EHEA – The Second Cycle
Duration	one semester
Workload	3 ECTS, 90 hours. For full-time course 60 hours are working hours with the lecturer (60 hours of seminars), 30 hours of the individual study.
Language(s)	English

2. Place in the study programme

Relation to curriculum	Compulsory course available for study programme "Medicine"
Prerequisites	"KROK-1", Necessary knowledge of: Latin and medical terminology, medical biology, medical chemistry, medical informatics, of biological and bioorganic chemistry, anatomy human, physiology, histology, cytology and embryology, microbiology, virology and immunology, pathomorphology, pathophysiology, pharmacology, hygiene and ecology, obstetrics and gynecology, nursing practice
Additional requirements	There are no specific requirements
Restrictions	There are no specific restrictions

3. Aims of the course

The goal of the educational discipline is for students to achieve modern knowledge and professional skills in physiological and pathological obstetrics, conservative and operative gynecology, to master the general principles of managing pregnancy, childbirth and the postpartum period, the ability to analyze the obstetric situation and surgical risks of a gynecological patient using modern research methods and compliance with the principles medical ethics and deontology.

4. Contents

Module 3. Obstetrics and gynecology

Topic 1 Disorders of menstrual function in the reproductive age, neuroendocrine syndromes. Physiological and pathological conditions in the perimenopausal period.

Disorders of menstrual function in the reproductive age. Neuroendocrine syndromes in gynecology: premenstrual, menopausal, polycystic ovary syndrome, Sheehan syndrome, hyperandrogenism, hyperprolactinemia. Clinic, modern methods of diagnosis and principles of treatment. The concept of the perimenopausal period. Physiological changes in female genital organs during perimenopause. Pathological conditions in the perimenopausal period. Prolapse and prolapse of the walls of the vagina and uterus: diagnosis, treatment, prevention.

Topic 2 Pathological conditions of the reproductive system in childhood and adolescence. Methods of contraception for teenagers.

Modern methods of examination of girls and adolescents with gynecological diseases. Disorders of menstrual function in adolescence, classification, diagnosis and treatment from the standpoint of evidence-based medicine. Amenorrhea. Juvenile uterine bleeding. Therapy, rehabilitation and prevention of menstrual disorders in girls. Anomalies of genital development. Disorders of sexual development in adolescents. Inflammatory diseases of genital organs in girls and teenagers. Clinic, diagnosis and treatment from the standpoint of evidence-based medicine. Methods of contraception in teenagers. Peculiarities of selection and use of barrier and hormonal methods of contraception.

Topic 3 Female urogenital inflammatory diseases.

Modern approaches to the diagnosis and treatment of female urogenital inflammatory diseases from the standpoint of evidence-based medicine. Diagnosis, treatment from the standpoint of evidence-based medicine and prevention of sexually transmitted diseases.

Topic 4 Benign neoplasms of female genital organs. Genital endometriosis. Dyshormonal diseases of the mammary gland.

Benign neoplasms of female genital organs. Diagnosis, treatment from the standpoint of evidence-based medicine and prevention. Dyshormonal diseases of the mammary gland. Modern methods of diagnosis, treatment from the standpoint of evidence-based medicine and prevention. Endometriosis. Modern aspects of etiopathogenesis, diagnosis, treatment from the standpoint of evidence-based medicine, and prevention of endometriosis.

Topic 5 Background and precancerous diseases of female genital organs. Malignant neoplasms of female genital organs.

Background and precancerous diseases of the female genital organs. Modern diagnostic methods, principles of treatment from the standpoint of evidence-based medicine and prevention. Malignant neoplasms of the female genital organs. Modern diagnostic methods, principles of treatment from the standpoint of evidence-based medicine and prevention.

Topic 6 Urgent conditions in gynecology.

Modern approaches to diagnosis and emergency care for acute abdomen. Modern approaches to diagnosis and emergency care for uterine bleeding. Basic principles and methods of surgical interventions in emergency conditions in gynecology. Traumatic damage to the genitals. Clinic diagnostics and treatment from the position of evidence-based medicine. Differential diagnosis with acute surgical pathology (appendicitis, intestinal obstruction, cholecystitis, renal colic, perforated gastric ulcer). Prevention of emergency conditions in gynecology.

Topic 7 Operative interventions in gynecology. Preparation and postoperative management of gynecological patients during urgent and planned surgical interventions. Prevention of HIV infection.

Indications, contraindications, conditions and types of operations on the cervix; the uterus (conservative myomectomy, defundation of the uterus, supravaginal amputation of the uterus, extirpation of the uterus), appendages of the uterus, with prolapse and prolapse of the female genital organs. Artificial insemination of pregnancy in early and late periods, indications, methods, complications. Therapeutic and diagnostic endoscopic methods in gynecology. Peculiarities of preparation and postoperative management of gynecological patients during urgent and planned surgical interventions. Postoperative complications and their prevention. Rehabilitation after gynecological interventions. Prevention of HIV infection in medical institutions. Prevention of the risk of contracting blood-borne infections and ways to reduce it. Post-contact prevention.

Topic 8 Infertility.

Medical and social significance of the problem of infertility in marriage. Etiopathogenetic factors of the development of infertility. Examination of a married couple in case of an infertile marriage. Modern principles and methods of treatment of female infertility from the standpoint of evidence-based medicine. Indications for the use of assisted reproductive technologies.

Topic 9 Modern aspects of family planning. Methods of contraception. Medical criteria for the acceptability of using WHO contraceptive methods.

Counseling regarding the choice and use of a contraceptive method: stages of counseling. Methods of contraception according to periods of life. Modern methods of contraception: classification, mechanism of action, advantages, disadvantages, required examination before starting use, mode of use, side effects, instructions for the patient. Postpartum and postabortion contraception. WHO medical acceptance criteria: classification of categories, use of summary tables. Methods of contraception in women with HIV.

Topic 10 Physiological pregnancy, childbirth and the postpartum period. Perinatal protection of the fetus. Pharmacotherapy in obstetrics.

Management of physiological pregnancy, childbirth and the postpartum period. Modern methods of diagnosing the state of the fetus. Peculiarities of pharmacotherapy at different stages of pregnancy and in the postpartum period. Issues of medical ethics and deontology. Methods of contraception in the postpartum period.

Topic 11 Early gestosis. Hypertensive disorders during pregnancy. Preeclampsia. Eclampsia.

Etiology and pathogenesis of preeclampsia. Early gestation (vomiting, hypersalivation). Clinic, diagnosis and treatment of early gestosis from the standpoint of evidence-based medicine. Hypertension during pregnancy. Edema during pregnancy. Proteinuria during pregnancy. Preeclampsia. Eclampsia. Clinic, diagnosis, differential diagnosis, methods of treatment from the standpoint of evidence-based medicine, influence on the condition of the fetus. Rare forms of preeclampsia. Tactics of managing pregnancy, childbirth and the postpartum period in late gestosis. Emergency assistance. Prevention of late gestosis and rehabilitation.

Topic 12 Early termination of pregnancy. Postponement of pregnancy. Multiple pregnancy.

Etiology and pathogenesis of premature termination of pregnancy at different times. Classification, clinic, diagnosis, treatment from the standpoint of evidence-based medicine and prevention of spontaneous abortion. Premature birth. Peculiarities of management of premature birth. Prevention of miscarriage. Etiology and pathogenesis of late pregnancy. Methods of diagnosing late pregnancy. The course of pregnancy and childbirth, the effect on the fetus. Tactics of managing a delayed pregnancy from the standpoint of evidence-based medicine. Prevention and therapy of complications associated with transfer from the standpoint of evidence-based medicine. Multiple pregnancy: classification and diagnosis. Tactics of managing pregnancy and childbirth in case of multiple fertility. Feto-fetal transfusion syndrome, VZOP (intrauterine death of one fetus).

Topic 13 Anomalies of the bony pelvis. The problem of macrosomia in modern obstetrics. Mismatch of fetal head and mother's pelvis. Incorrect positions and pelvic presentation of the fetus.

Anomalies of the bony pelvis. Childbirth with a narrow pelvis. Features of childbirth with a large fetus. Delivery tactics with a large fetus and a clinically narrow pelvis. Pregnancy and childbirth with pelvic presentation. Incorrect positions of the fetus. Methods of diagnosis and correction of the incorrect position of the fetus. Peculiarities of obstetric tactics during pregnancy and childbirth depending on the variety of presentation and the position of the fetus.

Topic 14 Bleeding during pregnancy, childbirth and the postpartum period. Hemorrhagic shock. DIC-syndrome. Intensive therapy and resuscitation for bleeding in obstetrics.

Bleeding during pregnancy, childbirth and the postpartum period. Etiology, pathogenesis, clinic, diagnosis. Algorithm of the doctor's actions and methods of combating bleeding from the standpoint of evidence-based medicine. Hemorrhagic shock. DIC-syndrome. Modern approaches to infusion-transfusion and intensive therapy and resuscitation for bleeding in obstetrics from the standpoint of evidence-based medicine.

Topic 15 Abnormalities of the contractile activity of the uterus. Childbirth traumatism of mother and fetus. Modern approaches to diagnosis and treatment of maternal and fetal birth injuries.

Classification, etiology, pathogenesis of various types of birth defects. Modern methods of diagnosis and treatment of birth defects from the standpoint of evidence-based medicine. Prevention of birth defects. Childbirth traumatism of mother and fetus, classification. Modern approaches to the diagnosis and treatment of maternal and fetal birth injuries from the standpoint of evidence-based medicine. Peculiarities of managing pregnancy and childbirth in women with a scar on the uterus. Prevention of obstetric injuries.

Topic 16 Pregnancy and childbirth with extragenital diseases. Perinatal infections. Prevention of vertical transmission of HIV.

Pregnancy and childbirth with diseases of the cardiovascular system (heart defects, hypertension, arterial hypotension); diseases of the urinary system; liver and gall bladder; diseases of hematopoietic organs; respiratory organs; organs of the digestive system; endocrine system; nervous system; organs of vision; acute and chronic infectious diseases, tuberculosis. The course of pregnancy and childbirth with gynecological diseases. Peculiarities of the course and tactics of management in acute surgical pathology. Perinatal infections in pregnant women: clinical course, diagnosis, management tactics, treatment from the standpoint of evidence-based medicine, prevention. Principles of pregnancy and childbirth in women with HIV. Prevention of vertical transmission of HIV.

Topic 17 Operative interventions in obstetrics.

Indications, contraindications, conditions and preparation for surgical interventions in vaginal and abdominal childbirth in obstetrics. The main stages of obstetric operations. Analgesia of operations. Toolkit. Asepsis and antiseptics. Management of the postoperative period.

Topic 18 Postpartum septic diseases.

diseases. Classification, etiology, pathogenesis, diagnosis, principles of treatment from the standpoint of evidence-based medicine, prevention. Emergency care for septic conditions in obstetrics. Indications for operative treatment from the standpoint of evidence-based medicine.

Topic 19 Placental dysfunction, delayed fetal development, fetal distress. Immunological incompatibility of maternal and fetal blood. Anomalies of the fertilized egg.

Etiology, pathogenesis of placental dysfunction, fetal distress, retardation of fetal development. Modern perinatal diagnostic technologies. Modern approaches to the tactics of managing adverse fetal conditions during pregnancy and childbirth from the standpoint of evidence-based medicine. Immunological incompatibility of the blood of the mother and the fetus (Rhesus conflict, incompatibility according to the ABO system, isoleukocyte, etc.). Pathogenesis, diagnosis, management of pregnancy, choice of optimal delivery date. Management of childbirth and the postpartum period in case of immunological conflict. Prevention. Anomalies of the development of the fertile egg. Anomalies of extra-embryonic elements of the fetal egg (placenta, amniotic membranes and umbilical cord). Trophoblastic diseases (bubble drift). Polyhydramnios and oligohydramnios: causes, clinic, tactics of pregnancy and childbirth, consequences for the fetus and newborn.

Topic 20 Performance of practical skills and manipulations.

Implementation a list of practical skills and manipulations.

Topic 21 Final lesson: diff. test.

Diff credits will include: answers to theoretical questions, questions for computer test control, solving clinical cases, providing emergency care.

5. Intended learning outcomes of the course

After successful study of the course, the student will be able to:

LO1	Collect medical information about the obstetric patient and be able to analyze clinical data (acquire skills in interviewing, external and internal obstetric and clinical and laboratory examination of the pregnant woman, the woman in labor and the postpartum woman). Substantiate and apply clinical methods for understanding the manifestations of obstetric and gynecological pathology.
LO2	Conduct differential diagnostics of obstetric pathology, formulate a clinical diagnosis based on the evaluation of the results of laboratory and instrumental research methods.
LO3	Be able to determine the tactics of managing patients with various pathological conditions.
LO4	Identify the main clinical syndrome, be able to determine the obstetric situation, establish a preliminary and clinical diagnosis, and plan the delivery.

LO5	To justify the use of basic invasive and non-invasive diagnostic methods, to be able to perform medical manipulations
LO6	To apply in practice the algorithms of examination and management of patients with emergency conditions, master the methods of treatment of emergency conditions in obstetric practice.
LO7	To argue information for decision-making regarding the management of pregnancy and childbirth and the postpartum period. Be able to provide counseling on family planning and medical and genetic counseling.
LO8	Be able to determine the necessary work and rest regime for pregnant women.
LO9	Be able to assess the general condition of a newborn child and provide emergency care to a newborn in the delivery room according to existing algorithms and standard schemes, observing the relevant ethical and legal norms.
LO10	To perform manipulations of providing emergency medical care in limited time, using standard schemes, under any circumstances based on the diagnosis of an emergency in a pregnant, laboring or parturient woman.
LO11	To learn the main classes of pharmacological drugs used in midwifery practice, to apply the relevant clinical and pharmacological principles for the management of pregnant women, women in labor and women in labor, to calculate doses of drugs.
LO12	Be able to find the necessary information in professional literature and databases of other sources, analyze, evaluate and apply this information. Apply modern digital technologies, specialized software, and statistical data analysis methods to solve complex healthcare problems.
LO13	Be able to assess the impact of the environment on the state of reproductive health of the population, the intrauterine state of the fetus and prevent the negative impact of environmental factors.
LO14	Demonstrate mastery of the moral and deontological principles of a medical professional and the principles of professional subordination.
LO15	Be able to conduct epidemiological and medical-statistical research on population health; process state, social, economic and medical information.
LO16	Be able to perform medical manipulations in obstetric practice.

6. Role of the course in the achievement of programme learning outcomes

Programme learning outcomes achieved by the course.

For 222 Medicine:

PO1	To detect and identify the leading clinical symptoms and syndromes (according to the List 1); to establish the most probable nosological or syndromic preliminary clinical diagnosis of diseases (according to the List 2) using standard methods, preliminary data of the patients anamnesis, patients examination data, and knowledge about a human, his organs and systems.
PO2	To collect information about the patients general condition; to assess the patients psychomotor and physical development and the state of organs and systems of the body; to assess information on the diagnosis (according to the List 4) based on laboratory and instrumental findings.

PO3	To order and analyze additional (mandatory and optional) examinations (laboratory, radiological, functional and/or instrumental) (according to the List 4) in order to perform a differential diagnosis of diseases (according to the List 2).
PO4	To establish a final clinical diagnosis at a medical institution under control of a supervising doctor by means of informed decision and logical analysis of the obtained subjective and objective data of clinical and additional examinations, and differential diagnosis, following the relevant ethical and legal norms (according to the List 2).
PO5	To detect the key clinical syndrome or the reason for patients condition severity (according to the List 3) via informed decision and evaluation of the persons state under any circumstances (at home, in the street, at a healthcare facility), including under emergency and military operation conditions, in the field, with a lack of information and limited time.
PO6	To determine the nature and treatment principles (conservative, operative) in patients with diseases (according to the List 2) at a healthcare facility, at patients home or during medical evacuation process (including in the field), based on the provisional clinical diagnosis and observing the relevant ethical and legal norms, by making a reasonable decision according to existing algorithms and standard procedures based on the principles of evidence-based medicine; if needed to go beyond the standard scheme, to substantiate the personalized recommendations under control of a supervising doctor at a medical facility.
PO7	To determine an appropriate work and rest mode in the treatment of diseases (according to the List 2) at a healthcare institution, at patients home and during medical evacuation (including in the field), based on the provisional clinical diagnosis and observing the relevant ethical and legal norms, by making a reasonable decision according to existing algorithms and standard procedures.
PO8	To determine an appropriate diet in the treatment of diseases (according to the List 2) at a healthcare institution, at patients home and during medical evacuation (including in the field), based on the provisional clinical diagnosis and observing the relevant ethical and legal norms, by making a reasonable decision according to existing algorithms and standard procedures.
PO9	To determine an appropriate approach, plan, and management of physiological pregnancy, physiological delivery, and postpartum period by making a reasonable decision according to existing algorithms and standard procedures.
PO10	To assess the general condition of a newborn child by making an informed decision according to existing algorithms and standard schemes and adhering to the relevant ethical and legal norms.
PO11	To determine the appropriate approach in emergency medical care case under any circumstances, adhering to the relevant ethical and legal norms, by making an informed decision based on the main clinical syndrome (disease severity) and emergency diagnosis (according to the List 3) using standard schemes under limited time conditions based on the principles of evidence-based medicine.

PO12	To provide emergency medical assistance under any circumstances, adhering to the relevant ethical and legal norms, by making an informed decision based on the main clinical syndrome (disease severity) and emergency diagnosis (according to the List 3) using standard schemes and predetermined approach under limited time conditions based on the principles of evidence-based medicine.
PO13	To organize medical evacuation procedures among the population and the military under emergency and military operation conditions (including in the field), and during the phases of medical evacuation, given the existing system of medical evacuation provision.
PO14	To perform medical procedures (according to the List 5) at a medical facility, at home or at work on the basis of a provisional clinical diagnosis and/or health parameters through making an informed decision and adhering to the relevant ethical and legal norms.
PO15	To perform procedures related to emergency medical assistance within a limited time and under any circumstances, using standard schemes on the basis of a medical emergency diagnosis (according to the List 3).
PO16	To plan and implement a system of sanitary and preventive measures against the occurrence and spread of diseases among the population.
PO17	To analyze epidemiological situation and carry out measures of mass and individual, general and local prevention of infectious diseases.
PO18	To search for the necessary information in the professional literature and databases; to analyze, evaluate, and apply this information. To apply modern digital technologies, specialized software, statistical methods of data analysis to solve complex health problems.
PO19	To assess environmental impact on public health.
PO20	To formulate goals and define the structure of personal activity based on the analysis of social and personal needs.
PO21	To organize an appropriate level of individual safety (own and of those cared for) in case of typical dangerous situations in the individual field of activity.
PO22	To communicate one's knowledge, conclusions, and arguments on health issues and related concerns clearly and unambiguously to professionals and non-specialists, in particular to students.
PO23	To manage healthcare workflows that are complex, unpredictable and require new strategic approaches; to organize conditions for work and professional development of staff.
PO24	To communicate freely in state and foreign languages orally and in writing in order to discuss professional and research activities.
PO25	To make effective healthcare decisions assessing resources and considering social, economic, and ethical implications.

7. The role of the course in the development of program competencies

Program competencies addressed by the course:

For 222 Medicine:

8. Teaching and learning activities

Topic 1. Disorders of menstrual function in the reproductive age, neuroendocrine syndromes. Physiological and pathological conditions in the perimenopausal period.

pr.tr.1 "Disorders of menstrual function in the reproductive age. Physiological and pathological conditions in the perimenopausal period." (daily)"

Classification of disorders of the function of the reproductive system. Amenorrhea: classification, diagnosis. Abnormal uterine bleeding. Clinic, modern methods of diagnosis and principles of treatment from the standpoint of evidence-based medicine. The problem of menstrual dysfunction in different age periods. Modern methods of diagnosis and treatment. The study of this topic involves theoretical work in the classroom, in the simulation center (working with phantoms, educational tables, gynecological instruments), the use of virtual simulation (watching films about the neuroendocrine regulation of the menstrual cycle) with further discussion. Provided there are no quarantine restrictions, work in a women's consultation (according to the cooperation agreement between the medical institution and the university).

pr.tr.2 "Neuroendocrine syndromes in gynecology. (daily)"

Issues of gynecological endocrinology. Neuroendocrine syndromes in gynecology: premenstrual, menopausal, polycystic ovary syndrome, Sheehan syndrome, hyperandrogenism, hyperprolactinemia. Clinic, modern diagnostic methods and principlestreatment from the position of evidence-based medicine. The study of this topic involves a theoretical one work in a training room, simulation center (work with phantoms, training tables, gynecological instruments), use of virtual simulation (viewing films with further discussion). Provided there are no quarantines limitations of work in a women's consultation with mastering the skills of a consultative reception gynecological patients, carrying out functional diagnostic tests (according to the agreement on cooperation between a medical institution and a university).

Topic 2. Pathological conditions of the reproductive system in childhood and adolescence. Methods of contraception for teenagers.

pr.tr.3 "Pathological conditions of the reproductive system in childhood and adolescence. Methods of contraception for teenagers." (daily)"

Anatomical and physiological features of a girl's genitals during the formation of the reproductive system. Peculiarities of examination of girls. Inflammatory diseases of genital organs in childhood and adolescence. Violation of menstrual function. Tumors and injuries of genital organs. The study of this topic involves theoretical work in a classroom, a simulation center (working with a phantom, gynecological instruments), the use of virtual simulation (viewing thematic films with further discussion). In the absence of quarantine restrictions, work in a women's consultation with mastering the skills of consulting gynecological patients, collecting gynecological and reproductive history, mirror examination, bimanual palpation (according to the agreement on cooperation between the medical institution and the university). Acquaintance with the peculiarities of vaginal surgery for genital prolapse (presence in the operating room together with the teacher).

Topic 3. Female urogenital inflammatory diseases.

pr.tr.4 "Female urogenital inflammatory diseases. (daily)"

Master the methods of modern diagnosis and treatment of acute and chronic inflammatory processes of the female genital organs, management of patients with purulent tuboovarian tumors. Indications for surgical treatment from the standpoint of evidence-based medicine. To study the possibilities of the course of inflammatory diseases of the female genital organs in different age periods, to master the tactics of management and further rehabilitation of women who have undergone inflammatory processes. Studying this topic involves working in a classroom, a simulation center (working with gynecological instruments), using virtual simulation (viewing thematic films with further discussion). Work in a women's consultation with mastering the skills of consulting gynecological patients, collecting gynecological and reproductive anamnesis, working in an ultrasound diagnostic room, a gynecological department, working in a small operating room with mastering the skills of puncture through the posterior vault, laparoscopic operating room for tuboovarian abscess removal (provided there are no quarantine restrictions, according to the cooperation agreement between the medical institution and the university).

Topic 4. Benign neoplasms of female genital organs. Genital endometriosis. Dyshormonal diseases of the mammary gland.

pr.tr.5 "Benign tumors of the female genital organs. (daily)"

Benign tumors and tumor-like diseases of the female genital organs. The concept of ovarian cysts and tumors. Benign tumors of the ovaries: epithelial, stromal tumors of the genital tract, lipid-cellular tumors, germinogenic tumors. Tumor-like formations of the ovaries. Benign uterine tumors. Clinic, modern diagnostic methods, treatment from the standpoint of evidence-based medicine. The study of this topic involves theoretical work in a classroom, a simulation center (working with gynecological instruments), the use of virtual simulation (watching films with further discussion). Work in a women's consultation with mastering the skills of consulting gynecological patients, work in the ultrasound diagnostic office, being able to distinguish tumor-like diseases of the ovaries according to the O-RADS classification, work in a small operating room with mastering the skills of diagnostic curettage of the uterine cavity, endometrial biopsy, hysteroresectoscopy, presence in the operating room under the time of operative treatment of topical patients using laparoscopic techniques (according to the cooperation agreement between the medical institution and the university, provided there are no quarantine restrictions).

pr.tr.6 "Genital endometriosis. (daily)"

The problem of endometriosis. Etiopathogenetic aspects of endometriosis. Classification. Clinic. The study of this topic involves theoretical work in a classroom, a simulation center (working with gynecological instruments), the use of virtual simulation (watching films with further discussion). Work in a women's consultation with mastering the skills of consulting gynecological patients, work in the ultrasound diagnostic office, being able to distinguish tumor-like diseases of the ovaries according to the O-RADS classification, work in a small operating room with mastering the skills of diagnostic curettage of the uterine cavity, endometrial biopsy, hysteroresectoscopy, presence in the operating room under the time of surgical treatment of topical patients with endometriosis using laparoscopic techniques (according to the cooperation agreement between the medical institution and the university, provided there are no quarantine restrictions). To master the methods of diagnosis, treatment and prevention of endometriosis. Get acquainted with the methods of medical rehabilitation of women with endometriosis.

pr.tr.7 "Dyshormonal diseases of the mammary gland. (daily)""

Basic gynecological aspects of breast diseases. Modern diagnostic methods, management tactics, treatment from the standpoint of evidence-based medicine and prevention. The study of this topic involves theoretical work in a classroom, a simulation center (work with a mammary gland phantom), the use of virtual simulation (viewing thematic films with further discussion). In addition, when studying this topic, role-playing games are expected, in the absence of quarantine restrictions, work at the bedside of a patient in specialized departments of a medical institution (according to the agreement on cooperation between the medical institution and the university): mastering the skills of palpation of the mammary gland, identifying pathological symptoms: nipple retraction, compaction breast tissues, detection of lemon peel symptom, discharge from the nipple, enlargement of axillary lymph nodes, work in the ultrasound diagnostic office, to distinguish breast tumors according to the Bi-RADS classification. Work in the mammography office: to be able to interpret mammographic images, distinguish pathological formations in the mammary gland.

Topic 5. Background and precancerous diseases of female genital organs. Malignant neoplasms of female genital organs.

pr.tr.8 "Background and precancerous diseases of female genital organs. (daily)"

Background and precancerous diseases of external genital organs. Background and precancerous diseases of the cervix: classification. Hyperplastic processes of the endometrium: etiology, pathogenesis, classification, modern methods of diagnosis, management tactics and principles of treatment from the standpoint of evidence-based medicine. Prevention of background and precancerous diseases of the female genital organs. The study of this topic involves theoretical work in a classroom, a simulation center (working with gynecological instruments), the use of virtual simulation (viewing thematic films with further discussion). Work in a women's consultation with mastering the skills of consulting gynecological patients, working with a colposcope, mastering the skills of cytological examination of the cervix, sampling material for biopsy (according to the cooperation agreement between the university and the clinical institution, provided there are no quarantine restrictions).

pr.tr.9 "Malignant neoplasms of the female genital organs.(daily)"

Malignant neoplasms of external female genital organs (vulvar cancer). Cervical cancer. Cancer of the body of the uterus. Uterine sarcoma. Ovarian cancer. Fallopian tube cancer. Classification, clinic, diagnosis, management tactics and principles of treatment from the standpoint of evidence-based medicine. Trophoblastic diseases. The study of this topic involves theoretical work in a classroom, a simulation center (working with gynecological instruments), the use of virtual simulation (viewing thematic films with further discussion). Work in a women's consultation with mastering the skills of consulting gynecological patients, working with a colposcope, mastering the skills of cytological examination of the cervix, sampling material for biopsy (according to the cooperation agreement between the university and the clinical institution, provided there are no quarantine restrictions)

Topic 6. Urgent conditions in gynecology.

pr.tr.10 "Urgent conditions in gynecology. (daily)"

The problem of "Acute abdomen" in gynecology. Modern approaches to diagnosis, differential diagnosis, treatment from the standpoint of evidence-based medicine and prevention of urgent gynecological conditions. Ectopic pregnancy, ovarian apoplexy, ovarian tumor capsule rupture, ovarian tumor pedicle torsion, purulent tuboovarian tumor rupture. Emergency conditions in case of uterine myoma, violation of nutrition of the myomatous node. The problem of emergency gynecological care, basic principles and methods of surgical interventions in emergency conditions in gynecology. The study of this topic involves theoretical work in a classroom, a simulation center (working with gynecological instruments), the use of virtual simulation (watching films with further discussion). In addition, when studying this topic, role-playing games are expected, in the absence of quarantine restrictions, work at the patient's bedside in specialized departments of a medical institution (according to the cooperation agreement between the medical institution and the university). Drawing up a treatment plan for the patient.

pr.tr.11 "Traumatic damage to the female genital organs." (daily)"

Traumatic damage to female genital organs. The problem of emergency gynecological care, basic principles and methods of surgical interventions in emergency conditions in gynecology. The study of this topic involves theoretical work in a classroom, a simulation center (working with gynecological instruments), the use of virtual simulation (watching films with further discussion). In addition, when studying this topic, role-playing games are expected, in the absence of quarantine restrictions, work at the patient's bedside in specialized departments of a medical institution (according to the cooperation agreement between the medical institution and the university).

Topic 7. Operative interventions in gynecology. Preparation and postoperative management of gynecological patients during urgent and planned surgical interventions. Prevention of HIV infection.

pr.tr.12 "Operative interventions in gynecology. Preparation and postoperative management of gynecological patients during urgent and planned surgical interventions. Prevention of HIV infection." (daily)"

Preoperative preparation of gynecological patients. Management of the postoperative period. Operations on the vaginal part of the cervix. Operations for prolapse and prolapse of the genitals. Gynecological operations on the appendages and uterus. Minor gynecological operations. Endoscopic surgery (laparoscopy, hysteroresectoscopy). Acquaintance with the peculiarities of preoperative preparation and postoperative management of gynecological patients. Anesthesia during gynecological operations. Rehabilitation after gynecological interventions of this topic involves theoretical work in a classroom, a simulation center (work with gynecological instruments), the use of virtual simulation (viewing films with recordings of operative interventions with further discussion). In the absence of quarantine restrictions, work in the gynecological department, a small operating room with mastering the skills of puncture through the posterior vault, endoscopic operating room, attendance at operations (according to the cooperation agreement between the medical institution and the university).

Topic 8. Infertility.

pr.tr.13 "Infertility." (daily)"

Medical and social support for the problem of infertility in marriage. Study of modern principles and methods of treatment of female infertility (hormonal, surgical, latest reproductive technologies). Peculiarities of the use of modern auxiliary reproductive technologies. Etiological factors of the development of infertility. The study of this topic involves theoretical work in a classroom, a simulation center (work with gynecological instruments), the use of virtual simulation (viewing thematic films with the algorithm of examining a married couple in case of infertility, the use of auxiliary reproductive technologies with further discussion). In the absence of quarantine restrictions, work in a women's consultation with mastering the skills of consulting gynecological patients, collecting gynecological and reproductive history, mirror examination, bimanual palpation (according to the agreement on cooperation between the medical institution and the university).

Topic 9. Modern aspects of family planning. Methods of contraception. Medical criteria for the acceptability of using WHO contraceptive methods.

pr.tr.14 "Modern aspects of family planning. Methods of contraception. Medical criteria for the acceptability of using WHO contraceptive methods." (daily)"

Organization, structure and tasks of the family planning service. Counseling on family planning: directions, advantages, counseling process. Family planning for people living with HIV infection. Classification, mechanism of action and effectiveness of modern contraceptives from the standpoint of evidence-based medicine. The study of this topic involves theoretical work in a classroom, a simulation center (working with gynecological instruments), the use of virtual simulation (viewing films on contraceptives with further discussion). Provided there are no quarantine restrictions, work in specialized departments of the medical institution (according to the cooperation agreement between the medical institution and the university). Familiarization with modern methods of contraception: COC, vaginal ring, contraceptive patch, PTP, injectable, IUD, barrier methods and spermicides. Familiarization with fertility recognition methods, voluntary surgical sterilization, emergency contraception. Examinations are necessary, which are carried out in a planned manner before making a decision on the use of a particular method of contraception.

Topic 10. Physiological pregnancy, childbirth and the postpartum period. Perinatal protection of the fetus. Pharmacotherapy in obstetrics.

pr.tr.15 "Physiological pregnancy, childbirth and the postpartum period. Perinatal protection of the fetus. Pharmacotherapy in obstetrics." (daily)"

Keeping physiological pregnancy. Features of pregnant women in women's consultation. Basic principles of normal childbirth. Clinic and postpartum maintenance. The study of this topic involves theoretical work in a training room, a simulation center (mastering practical skills using an obstetric phantom: to conduct an external obstetric examination (Leopold's techniques, auscultation of the heartbeat, pelviometry); In the conditions of the women's consultation or obstetric hospital at the bed of the patient (according to the cooperation between the medical institution and the university): to be able to collect and evaluate the anamnesis, to establish pregnancy, the expected period of childbirth and the mass of the fetus. PARTOgrams, evaluation of the results of the fetal condition (work with the equipment of the hospital - fetal cardio monitor, CTG, ultrasound, BPP, Doppler of blood flow).

Topic 11. Early gestosis. Hypertensive disorders during pregnancy. Preeclampsia. Eclampsia.

pr.tr.16 "Early gestosis. Hypertensive disorders during pregnancy. Preeclampsia. Eclampsia." (daily)"

Early preeclampsia: classification, clinic, diagnosis, treatment from the standpoint of evidence -based medicine. Hypertensive disorders during pregnancy. Preeclampsia: pathogenesis, classification, diagnosis, clinic, treatment from the standpoint of evidence -based medicine, tactics, prevention. Eclampsia: clinic, diagnosis, complications, emergency care, tactics from the standpoint of evidence -based medicine. The study of this topic involves theoretical work in the training room, in the simulation center (skills in phantom skills), the use of virtual simulation (viewing of emergency care films in the attack of eclampsia with further discussion, video discussion of approaches to treatment and prevention). In addition, the study of this topic provides role -playing games, conducting evaluation of the results of laboratory examination. Work near the bed of the patient. In the profile departments of the medical institution (according to the agreement on cooperation between the medical institution and the university): work in the department of extragenital pathology and obstetric resuscitation (determination of tactics of pregnancy and childbirth in late preeclampsia, development of the algorithm for the provision of emergency care).

Topic 12. Early termination of pregnancy. Postponement of pregnancy. Multiple pregnancy.

pr.tr.17 "Early termination of pregnancy." (daily)"

Tactics of managing premature births. The study of this topic involves theoretical work in the classroom, in the simulation center. In the absence of quarantine restrictions, work in an obstetric hospital (according to the cooperation agreement): continuing to practice the skills of examining the cervix in mirrors, carrying out pH-metry of vaginal contents in order to determine the inflow of amniotic fluid, assessing the degree of maturity of the cervix according to Bishop). Application of virtual simulation (viewing films with demonstration of clinical manifestations of the threat of premature birth). When studying this pathology, role-playing games are expected: practicing the skills of making a preliminary diagnosis of premature birth and planning management tactics. Plan preventive measures in the event of a threat of premature birth.

pr.tr.18 "Postponement of pregnancy. Multiple pregnancy." (daily)"

Etiology and pathogenesis of delayed pregnancy. Peculiarities of managing pregnancy and childbirth. Indications and conditions for labor induction. Methods of labor induction. Classification. Tactics of managing multiple pregnancies depending on the type of placentation. Tactics of childbirth in case of multiple fertility, indications for operative delivery. The study of this topic involves theoretical work in the classroom, in the simulation center. In the absence of quarantine restrictions, work in an obstetric hospital (according to the cooperation agreement): continuing to practice the skills of examining the cervix in mirrors, carrying out pH-metry of vaginal contents in order to determine the inflow of amniotic fluid, assessing the degree of maturity of the cervix according to Bishop). Application of virtual simulation. When studying this pathology, role-playing games are expected: practicing the skills of making a preliminary diagnosis and planning the tactics of childbirth in case of a delayed pregnancy. Tactics of managing pregnancy and childbirth in case of multiple fertility. It is expected to master the methods of pre-induction and induction of labor (mechanical methods of preparation for childbirth: finger peeling of the amniotic membranes, introduction of a balloon Foley catheter into the cervix, use of kelp, and medicinal agents). Determination of signs that confirm carrying over of pregnancy.

Topic 13. Anomalies of the bony pelvis. The problem of macrosomia in modern obstetrics. Mismatch of fetal head and mother's pelvis. Incorrect positions and pelvic presentation of the fetus.

pr.tr.19 "Anomalies of the bony pelvis. The problem of macrosomia in modern obstetrics. Inconsistency of the fetal head and the mother's pelvis." (daily)"

Anomalies of the bony pelvis. Classification, diagnosis. Diagnosis of synclitic and asynclitic insertion of the head. The problem of macrosomia in obstetrics. Clinically narrow pelvis. Peculiarities of childbirth. The study of this topic involves theoretical work in a training room, a simulation center (practicing the skills of external and internal obstetric examination, applying Leopold's techniques using an obstetric phantom). Establish a diagnosis of a clinically narrow pelvis (Vasten's sign, Tsangenmeister's sign). Application of virtual simulation (watching films on the subject of the lesson with further discussion). In addition, the study of this topic involves role-playing, mastering inspection skills, palpation "one on one", conducting pelviometry. In the absence of quarantine restrictions, work in the departments of the medical institution (according to the cooperation agreement between the medical institution and the university).

pr.tr.20 "Incorrect positions and pelvic presentation of the fetus." (daily)"

Incorrect position of the fetus: classification, diagnosis, pregnancy management tactics. Extensor presentations of the fetal head: classification, diagnosis. Correction of incorrect positions during pregnancy. Childbirth with incorrect position of the fetus, management tactics. Pelvic presentation of the fetus. Classification, diagnosis. Tactics of managing pregnancy and childbirth in case of breech presentation of the fetus. The study of this topic involves theoretical work in a training room, a simulation center (practicing the skills of external and internal obstetric examination, the use of Leopold techniques, mastering the technique of combined external and internal rotation of the fetus, extraction of the fetus by the leg, by the inguinal fold, studying and practicing the biomechanisms of childbirth with extensor presentation of the fetus using an obstetric phantom, the biomechanism of childbirth in the case of breech presentation of the fetus. Providing assistance according to the Tsovyanov I and II method in breech presentation. Practicing on the phantom the skills of providing classical manual assistance in the case of breech presentation of the fetus. Application of virtual simulation (viewing films on the topic) classes with further discussion).

Topic 14. Bleeding during pregnancy, childbirth and the postpartum period. Hemorrhagic shock. DIC-syndrome. Intensive therapy and resuscitation for bleeding in obstetrics.

pr.tr.21 "Bleeding during pregnancy, childbirth and the postpartum period.(daily)"

Etiology and clinic of the development of obstetric bleeding during pregnancy, childbirth and the postpartum period. Bleeding in the first half of pregnancy (spontaneous abortion, ectopic pregnancy, premature detachment and placenta previa). Etiology, pathogenesis, clinic, diagnosis. Presentation and premature detachment of a normally located placenta: etiology, pathogenesis, classification, clinic, diagnosis, features of the course, management of pregnancy and childbirth. Cuveler's mother. Rupture of the uterus: etiology, clinic, diagnosis, features of pregnancy and childbirth. Uterine bleeding during childbirth, postpartum and early postpartum period. Methods of stopping bleeding. The study of this topic involves theoretical work in a classroom, a simulation center (use of an obstetric phantom for childbirth, educational tables, medical tools), the use of virtual simulation (viewing thematic films with methods of stopping bleeding) with further discussion. In the absence of quarantine restrictions, work in the relevant departments of the clinical institution (according to the cooperation agreement between the medical institution and the university). Master the practical skills of assessing the volume of blood loss, inspection of the birth canal, manual and instrumental revision of the uterine cavity, manual separation and removal of litter, bimanual compression of the uterus, compression of the abdominal aorta).

pr.tr.22 "Hemorrhagic shock. DIC-syndrome. Intensive therapy and resuscitation for bleeding in obstetrics.(daily)"

Intensive therapy and resuscitation for bleeding in obstetrics. Hemorrhagic shock. DIC-syndrome. Thromboembolism of the pulmonary artery. Amniotic fluid embolism. The study of this topic involves theoretical work in a classroom, a simulation center, the use of virtual simulation (viewing films with algorithms for providing intensive care and resuscitation for bleeding in obstetrics) with further discussion. In the absence of quarantine restrictions, work in the departments of the medical institution (according to the agreement on cooperation between the medical institution and the university): work in the delivery room, intensive care unit. To master practical skills of assessing the volume of blood loss. Be able to develop an algorithm for providing emergency care for obstetric bleeding. To develop an algorithm for providing emergency care for hemorrhagic shock, DIC-syndrome. Determination of the stage of DIC-syndrome, assessment of laboratory indicators. Study of modern approaches to infusion-transfusion and intensive therapy and resuscitation in pulmonary embolism, amniotic fluid embolism.

Topic 15. Abnormalities of the contractile activity of the uterus. Childbirth traumatism of mother and fetus. Modern approaches to diagnosis and treatment of maternal and fetal birth injuries.

pr.tr.23 "Abnormalities of the contractile activity of the uterus. Childbirth traumatism of mother and fetus. Modern approaches to the diagnosis and treatment of birth injuries of the mother and fetus." (daily)"

Classification, risk factors, pathogenesis of various types of birth defects. Prevention of birth defects. The study of this topic involves theoretical work in a classroom, a simulation center (training of skills using an obstetric phantom). In the absence of quarantine restrictions, work in the departments of the medical institution (according to the cooperation agreement between the medical institution and the university). Practicing practical skills: determining the readiness of the mother's body for childbirth; evaluation of the maturity of the cervix (scale of degrees of maturity of the cervix according to E.H. Bishop). Mastering the methods of diagnosis and treatment of birth defects. Diagnosis of periods and phases of childbirth. Monitoring of the condition of the fetus during childbirth. Work with the equipment of a clinical facility with mastering the methods of recording uterine contractions and fetal heartbeat (using a fetal heart monitor). Application of virtual simulation (watching films on the subject of the lesson: anomalies of labor activity) with further discussion).

Topic 16. Pregnancy and childbirth with extragenital diseases. Perinatal infections. Prevention of vertical transmission of HIV.

pr.tr.24 "Pregnancy and childbirth with extragenital diseases. Perinatal infections. Prevention of vertical transmission of HIV." (daily)"

Pregnancy and childbirth with diseases of the cardiovascular system (heart defects, hypertension, arterial hypotension, diseases of blood-forming organs, diseases of the urinary system, liver and gall bladder, respiratory organs, organs of the digestive system, endocrine system, nervous system, organs of vision, acute and chronic infectious diseases, with gynecological diseases. The study of this topic involves theoretical work in the classroom, the use of virtual simulations (viewing the algorithms of pregnant women with extragenital pathology). due to the absence of quarantine restrictions, working at the patient's bedside in the departments of the medical institution (according to the cooperation agreement between the medical institution and the university).

Topic 17. Operative interventions in obstetrics.

pr.tr.25 "Operative interventions in obstetrics." (daily)"

General concepts of operative interventions in obstetrics. Obstetric forceps, vacuum extraction of the fetus, caesarean section: indications. Operative interventions in the postpartum and postpartum period. Indications for supravaginal amputation, extirpation of the uterus, ligation of the internal iliac arteries. The study of this topic involves theoretical work in a training room, a simulation center (practicing the skills of small obstetric operations on a phantom: operations for the preparation of the birth canal (perineo- and episiotomy, amniotomy); obstetric forceps, vacuum extraction of the fetus, manual separation of the placenta, separation of the litter: technique; manual and instrumental examination of the uterus after childbirth). In the absence of quarantine restrictions, work in the departments of a medical institution (according to the agreement on cooperation between the medical institution and the university): work in the obstetric department, obstetric operating room. Determination of absolute and relative indications for caesarean section. Mastering the methods of preoperative preparation and postoperative management of patients. Study of the technique of caesarean section in the lower segment of the uterus, the technique of applying obstetric forceps and vacuum extractor using virtual simulation (watching videos with further discussion).

Topic 18. Postpartum septic diseases.

pr.tr.26 "Postpartum septic diseases." (daily)"

Postpartum septic diseases: postpartum septic wound, postpartum metroendometritis, metrophlebitis, mastitis, postpartum peritonitis, peritonitis after cesarean section. Obstetric sepsis: classification, etiology, pathogenesis, diagnosis, modern principles of treatment from the standpoint of evidence-based medicine, prevention. Septic shock, emergency care. Methods of suppression of lactation. The study of this topic involves theoretical work in a classroom, a simulation center (work with an obstetric phantom), the use of virtual simulation (viewing films with the main clinical manifestations of postpartum septic infection) with further discussion. In the absence of quarantine restrictions, work in the departments of the medical institution (according to the cooperation agreement between the medical institution and the university). Role playing game. Be able to develop an algorithm for providing emergency care in case of septic shock.

Topic 19. Placental dysfunction, delayed fetal development, fetal distress. Immunological incompatibility of maternal and fetal blood. Anomalies of the fertilized egg.

pr.tr.27 "Placental dysfunction, retardation of fetal development. Fetal distress during pregnancy and childbirth." (daily)"

Placental dysfunction, fetal growth retardation: risk factors, classification, diagnosis, pregnancy management tactics, prevention. Fetal distress during pregnancy and childbirth: risk factors, classification, diagnosis, management tactics, prevention. Methods of diagnosing the condition of the fetus: non-invasive - ultrasound, CTG, biophysical profile of the fetus, dopplerometry, MRI; invasive - amniocentesis, cordocentesis, chorion biopsy. The study of this topic involves theoretical work in a classroom, a simulation center (acquiring practical skills on an obstetric phantom). Work with the use of virtual simulation (watching films with methods of diagnosing the state of the fetus) with further discussion. Provided there are no quarantine restrictions, work in specialized departments of a medical institution with medical equipment: fetal heart monitor, ultrasound diagnostic apparatus, etc. (according to the cooperation agreement between the medical institution and the university).

pr.tr.28 "Immunological incompatibility of maternal and fetal blood. Anomalies of the fertilized egg." (daily)"

Isoantigenic incompatibility of the blood of the mother and fetus (Rhesus conflict, incompatibility according to the ABO system, isoleukocyte, etc.). Hemolytic disease of the fetus and newborn. Indications for early birth in rhesus conflict. Anomalies of extra-embryonic elements of the fetal egg/placenta, fetal membranes and umbilical cord. Polyhydramnios and oligohydramnios: causes, diagnosis, pregnancy management tactics, consequences for the fetus and newborn. Hereditary and congenital diseases of the fetus. Diagnostics. Indications for medical and genetic counseling. Multiple pregnancy: classification, diagnosis, features of the course and management of multiple pregnancy. Childbirth in multiple pregnancy. The study of this topic involves theoretical work in a classroom, in a simulation center (learning practical skills on an obstetric phantom), work with the use of virtual simulation (watching films on pregnancy management in the case of isoantigenic incompatibility of maternal and fetal blood) with further discussion. Provided there are no quarantine restrictions, work in specialized departments of a medical institution with medical equipment: fetal heart monitor, ultrasound diagnostic apparatus, etc. (according to the cooperation agreement between the medical institution and the university).

Topic 20. Performance of practical skills and manipulations.

pr.tr.29 ""Implementation of practical skills and manipulations". (daily)"

Performance of practical skills and manipulations.

Topic 21. Final lesson: diff. test.

pr.tr.30 "Differentiated credit." (daily)"

Diff credits will include: questions for computer test control, performance of a practical task, provision of emergency assistance.

9. Teaching methods

9.1 Teaching methods

Course involves learning through:

TM1	Team Based Learning
TM2	Research Based Learning
TM3	Case-based learning
TM4	Practical training
TM5	Electronic learning
TM6	Self-study

The discipline is taught using modern teaching methods (PBL, RBL, CBL), which contribute not only to the development of professional abilities, but also stimulate creative and scientific activity and are aimed at training practice-oriented specialists.

Acquisition of soft skills by students is carried out during the entire period of studying the discipline. Ability to analytical and critical thinking, teamwork, perseverance is formed during team-, practice- and case-oriented training, knowledge and understanding of the subject area is acquired during lectures and self-study. Electronic training stimulates the ability to use information technologies. Training onto the basis of research encourages the development of certainty and persistence in relation to the set tasks and assumed responsibilities.

9.2 Learning activities

LA1	Analysis and discussion of cases (educational/practical/research)
LA2	Electronic learning in systems (the list is specified by the teacher, for example, Google Classroom, Zoom and in the YouTube channel format)
LA3	Performing situational exercises
LA4	Practical work with the patient in specialized departments of the hospital
LA5	Individual research project (student research paper, article, theses, etc.)TM2
LA6	Preparation for practical classes
LA7	Performing a group practical task
LA8	Evaluation and interpretation of study data

LA9	Practicing practical skills in the simulation centerTM4
LA10	Working with textbooks and relevant information sources
LA11	Preparation for Step-1 and Step-2
LA12	Підготовка до підсумкового контролю

10. Methods and criteria for assessment

10.1. Assessment criteria

Definition	National scale	Rating scale
Outstanding performance without errors	5 (Excellent)	$170 \le RD \le 200$
Above the average standard but with minor errors	4 (Good)	$164 \le RD < 169$
	4 (Good)	$140 \le RD < 163$
Fair but with significant shortcomings	3 (Satisfactory)	$127 \le RD < 139$
	3 (Satisfactory)	$120 \le RD < 126$
Fail – some more work required before the credit can be awarded	2 (Fail)	70 ≤ RD < 119
	2 (Fail)	0 ≤ RD < 69

10.2 Formative assessment

	Description	Deadline, weeks	Feedback
FA1 Mutual evaluation (peer assessment)	Partnership interaction aimed at improving the results of educational activities by comparing one's own current level of success with previous indicators. Provides the opportunity to analyze one's own educational activities throughout the entire period of studying the discipline Adjustment together with the students of approaches to learning taking into account the results of the assessment.	Throughout period study disciplines	Correction together with acquirers approaches to learning from taking into account results assessment
FA2 Conclusive testing	Method of effective verification level of assimilation of knowledge, skills and educational skills disciplines. Testing allows you to check the results graduate studies. disciplines	In the penultimate discipline lesson.	The maximum number of points for the test is 10 points, provided that 100% of the answers are correct. The minimum score for successfully passing the tests is 6 points (60% of correct answers).

FA3 Consulting the teacher during the preparation of an individual research project (speech at a conference, competition of scientific papers)	It is an important factor in the formation of professional qualities of future specialists research work of students. Involvement of the latter in research activities contributes to the formation of their scientific outlook, diligence, work capacity, initiative, etc.	During the entire period of studying the discipline	Verbal comments of the teacher. The student is given additional incentive points (from 5 to 10), depending on the type of research project.
FA4 Instructions of the teacher in the process of performing practical tasks	The guidelines reveal the methods of pedagogical control over the professional activities of applicants. Efficiency is determined by compliance with all stages of practical tasks. The effectiveness of the formation of the necessary practical skills and abilities depends on the level of formation of practical competence.	During the entire period of studying the discipline	Counseling of students in working with a standardized patient, direct and indirect observation of the work of applicants "at the bedside" of the patient with subsequent determination of the level of practical training
FA5 Survey and teacher's oral comments based on his results	Provides an opportunity to identify the state of the students' educational experience in accordance with the set goals, to find out the prerequisites for the state of formation of the obtained results, the causes of difficulties, to adjust the learning process, to track the dynamics of the formation of learning results and to forecast their development.	During the entire period of studying the discipline	According to the received data on the results of training, based on their analysis, it is proposed to determine the evaluation as an indicator of the achievements of the educational activities of the applicants

FA6 Solving clinical cases	The case method allows you to reveal and form the qualities and abilities of medical students necessary for further work, forms clinical thinking, analytical abilities, independence in decision-making, communication skills, skills for working with a sufficiently large amount of information.	During the entire period of studying the discipline	Assessment of the student's ability to think clinically, justify their decisions, clearly express their opinions, determine the level of theoretical training, which is reflected in the corresponding assessment.
FA7 Tests (automated tests) to control the educational achievements of applicants	A method of effective verification of the level of assimilation of knowledge, abilities and skills from each subject of an educational discipline. Testing allows you to check the assimilation of educational material from each subject.	During the entire period of studying the discipline	The student must provide 60% of the correct answers, which is an admission to the practical part of the lesson
FA8 Tests (automated tests) to control the educational achievements of applicants	Assessment of acquired theoretical knowledge on the subject of the discipline. It is conducted at each practical lesson in accordance with the specific goals of each topic based on a comprehensive assessment of the student's activity, which includes monitoring the level of theoretical training, performing independent work according to the thematic plan.	During the entire period of studying the discipline	Feedback is aimed at supporting students' independent work, identifying shortcomings and assessing the level of acquired theoretical knowledge
FA9 The task of assessing the level of theoretical training	Assessment of acquired theoretical knowledge on the subject of the discipline. It is conducted at each practical lesson in accordance with the specific goals of each topic based on a comprehensive assessment of the student's activity, which includes monitoring the level of theoretical training, performing independent work according to the thematic plan.	During the entire period of studying the discipline	Feedback is aimed at supporting students' independent work, identifying shortcomings and assessing the level of acquired theoretical knowledge

FA10 Practical skills test	Practicing practical skills on various mannequins and simulators.	During the entire period of study. At the last lesson, the student must successfully perform practic	Successful completion of practical skills in the discipline is a prerequisite for taking the exam. The maximum number of points is 20, the minimum is 12
FA11 Discussions in focus groups	he method makes it possible to involve all participants in the process of discussion and justification of one's own opinion through multilateral communication, to develop the ability to conduct a professional discussion, to cultivate respect for colleagues and the ability to generate alternative ideas and proposals.	During the entire period of studying the discipline	Assessment of the student's ability to work in a team, the ability to justify their decisions, determination of the level of the oretical training, which is reflected in the corresponding assessment
FA12 Tests (automated tests) to control the educational achievements of applicants	A method of effective verification of the level of assimilation of knowledge, abilities and skills from each subject of an educational discipline. Testing allows you to check the assimilation of educational material from each subject.	During the entire period of studying the discipline	The student must provide 60% of the correct answers, which is an admission to the practical part of the lesson.

10.3 Summative assessment

	Description	Deadline, weeks	Feedback
SA1 Final control: diff. test	Compilation of a practically-oriented differential score. Applicants who have successfully mastered the material from the discipline, passed practical skills and final computer testing are allowed to take the differential test.	According to the schedule	The winner can get 80 points for differential credit. The minimum number of points a student must receive is 30 points

SA2 Assessment of written works, surveys, solving a clinical case	Includes oral interview, interpretation of laboratory and instrumental methods of examination, objective structured clinical examination of the patient, solution of clinical individual and group cases, ongoing testing. Students who are involved in research activities have the opportunity to present the results of their own research at conferences, student research competitions, etc. (incentive activities, additional points)	During the entire period of studying the discipline	The performance result of each lesson affects the comprehensive assessment for the practical lesson
SA3 Final testing	A method of effective verification of the level of assimilation of knowledge, abilities and skills from an educational discipline. Testing allows you to check the results of training during the cycle and determine the level of knowledge at the end of the discipline.	Final computer test at the end of the course (10 points)	It is an admittance to the preparation of a differential score
SA4 Current evaluation of the level of theoretical and practical training	ncludes oral interview, interpretation of laboratory and instrumental methods of examination, objective structured clinical examination of the patient, solution of clinical individual and group cases, ongoing testing. Students who are involved in research activities have the opportunity to present the results of their own research at conferences, student research competitions, etc. (incentive activities, additional points).	During the entire period of studying the discipline	At each lesson, the result of the ND performance affects the comprehensive assessment for the practical lesson
SA5 Assessment of performance of practical skills and manipulations	Comprehensive practice of the practical component of academic programs in a safe simulation environment for students. Provides an opportunity to learn skills from a variety of emergency situations.	At the last lesson in the discipline, the student must successfully complete a list of practical ski	It is mandatory for admission to the exam. The maximum number of points is 80, the minimum is 48

Form of assessment:

		Points	Можливість перескладання з метою підвищення оцінки
T	The second semester of teaching		scores
S	A1. Final control: diff. test	liff. test 80	
	answer to theoretical questions (3x15)	45 No	
	answer to the question of practical training		No
	answer to the question of providing emergency care		No
S	SA2. Assessment of written works, surveys, solving a clinical case		10

	10	No	
SA3. Final testing		10	
	10	No	
SA4. Current evaluation of the level of theoretical and practical training	20		
	20	No	
SA5. Assessment of performance of practical skills and manipulations		80	
	80	No	

When learning the materials of the module, the student is awarded a maximum of 5 points for each practical session (the grade is given in the traditional 4-point grading system). At the end of the academic year, the student's arithmetic average is calculated. The maximum number of points that a student can receive in practical classes during the academic year is 80. The number of points of a student is calculated using the formula of multiplying by the arithmetic average and dividing by 5. For diagnostic testing, the student receives a maximum of 10 points. The minimum number of points that a student must receive is 6 points. A mandatory condition for admission to the exam is the successful completion of the list of practical skills in the last lesson of the discipline. The maximum number of points that a student can receive is 20 points, the minimum is 12 points. The maximum number of points for the current educational activity of the student is 120. The student is admitted to the exam provided that the requirements of the educational program are met and if he has scored at least 72 points for the current educational activity: 48 points during practical classes, 6 points for medical history, 6 points for testing and 12 points for performing practical skills and manipulations. The practice-oriented exam is held according to the schedule during the session. Exam tickets contain 3 theoretical questions on various topics and cover all sections of the academic discipline (15 points each), 1 practical task (15 points) and questions on providing emergency care (20 points). The exam is credited to the student if he scored at least 48 points out of 80. Encouraging points are added to the grade in the discipline for the implementation of an individual research project (defense of the student thesis 10 points, presentation at the conference, poster presentation at the conference, theses of the reports - 5 points). The total score for the discipline cannot exceed 200 points. The possibility of re-crediting the points obtained under the system of non-formal education is provided in accordance with the Regulations.

11. Learning resources

11.1 Material and technical support

MTS1	Information and communication systems
MTS2	Library funds, archive of radiographs, cardiotocograms, computer tomograms, results of laboratory examination methods
MTS3	Computers, computer systems and networks
MTS4	Simulation center (obstetric phantom, newborn baby phantom for primary resuscitation with a set of equipment)

MTS5	KNP SOR "Regional Clinical Perinatal Center", KNP "Clinical Maternity Hospital of the Blessed Virgin Mary", Medical Center "MedSoyuz", KNP TsMKL
MTS6	Multimedia, video and sound reproduction, projection equipment (video cameras, projectors, screens, laptops)
MTS7	Software (to support distance learning, Internet surveys, virtual laboratories, virtual patients, to create computer graphics, modeling, etc.)
MTS8	Medical equipment (fetal heart monitor, ultrasound machine, digital mammogram, laryngoscope, pinlon, height meter, scales, centimeter tape, tachometer, tonometer, obstetrical stethoscope, colposcope, IUD insertion simulator, set for gynecological examination, cervical brushes, microscope slides, hysteroscope, laparoscopic rack)

11.2 Information and methodical support

Essential R	eading						
1	Obstetrics. Volume 1. Basic course. Likhachev V.K. Publisher: New book. 2021.392 p.						
2	Gynecology. 2nd edition: a guide for doctors. Likhachev V.K. Publisher: New book, 2021; 688 p.						
3	Williams Obstetrics, 25th Edition, Study Guide 25th Edition by Shivani Patel, Scott Roberts, Vanessa Rogers, Ashley Zink, Elaine Duryea, Jamie Morgan. USA. Mc. Graw Hill Education. 2021. 1340 p						
4	William Gynecology, Fourth Edition by Barbara L. Hoffman, John O.Schorge, Lisa M. Halvorson, Cherine A. Hamid, Marlen M. Corton, Joseph I. Schaffer. Mc Graw-Hill Education. New York. 2020. 1253 p.						
5	Clinical Obstetrics and Gynaecology: 4th Edition / Brian A. Magowan, Philip Owen, Andrew Thomson. All-Ukrainian specialized publishing house "Medytsina", 2021. 454 p.						
Supplemen	tal Reading						
1	Ліхачов В. К. Акушерство. Том 1. Базовий курс.— 2-ге вид., Вінниця: Нова Книга, 2024, 392 стор.						
2	Клінічне акушерство та гінекологія: 4-е видання. Браян А. Магован, Філіп Оуен, Ендрю Томсон : ВСВ Медицина, 2021. 454 с.						
3	Clinical Handbook of Obstetrics and Gynecology. Асміта М Ратхор, Бідхіша Сінгха, Четна А Сеті, Латіка Caxy : Jaypee Brothers Medical Publishers. 2022. 834 р.						
4	Роджер П. Сміт. Акушерство та гінекологія за Неттером: 4-е видання. Видавництво: Всеукраїнське спеціалізоване видавництво «Медицина», 2024, 720 стор.						
5	Obstetrics and Gynecology in 2 volums, vol.2 Gynecology, edited V.I. Gryshchenko, M.O. Shcherbina, edition "Medytsina", 2022. 352 p						
6	Oxford Textbook of Obstetrics and Gynaecology , Arulkumaran Sabaratnam, Ledger William, Denny Lynette, Doumouchtsis Stergios, "Oxford University Press" , 2020. 872 p						

7	Cunningham and Gilstrap's Operative Obstetrics, Third Edition 3rd Edition, Kindle Edition. Edward R. Yeomans, Barbara L. Hoffman, Larry C. Gilstrap, F. Gary Cunningham. Mc Graw-Hill Education. New York. 2020. 1253 p.
8	Obstetrics and Gynecology in 2 volums, vol.1 ,Obstetrics, edited V.I.Gryshchenko, M.O. Shcherbina, edition "Medytsina", 2020. 392 p
9	Волянська А.Г. та спіавт. Збірник ситуаційних задач та тестових завдань з гінекології. ОЛДІ ПЛЮС, 2024, 310 стор.
10	Gabbe's Obstetrics Study Guide: A Companion to the 8th Edition Vanita D. Jain, Audrey A. Merriam, Eva K. Pressman, Rini Banerjee Ratan, Alyssa Stephenson-Famy, Thaddeus P. Waters. Copyrighted by Elsevier. 2021. 1346 p.

COURSE DESCRIPTOR

	Course Bescriptor	Total hours	Classroom work, hours			Independent work of students, hours										
Nº			Total hours	Lectures	Workshops (seminars)	Labs	Total hours	Self-study of the material		Preparation for workshops (seminars)		Preparation for labs		Preparation for assesment	Independent	extracurricular tasks
1		2	2			3	4	5	6	7	8	9	10	11	12	13
		full-time cou	ırse													
Module 3. Obstetrics and gynecology																
1	Disorders of menstrual function in the reproductive age, neuroendocrine syndromes. Physiological and pathological conditions in the perimenopausal period.			5	4	0	4	0	1	0	1	0	0	0		
2	Pathological conditions of the reproductive system in childhood and adolescence. Methods of contraception for teenagers.			2.5	2	0	2	0	0.5	0	0.5	0	0	0		
3	Female urogenital inflammatory diseases.			2.5	2	0	2	0	0.5	0	0.5	0	0	0		
4	Benign neoplasms of female genital organs. Genital endometriosis. Dyshormonal diseases of the mammary gland.			7.5	6	0	6	0	1.5	0	1.5	0	0	0		
5	Background and precancerous diseases of female genital organs. Malignant neoplasms of female genital organs.			5	4	0	4	0	1	0	1	0	0	0		
6	Urgent conditions in gynecology.			5	4	0	4	0	1	0	1	0	0	0		
7	Operative interventions in gynecology. Preparation and postoperative management of gynecological patients during urgent and planned surgical interventions. Prevention of HIV infection.			al 2.5	2	0	2	0	0.5	0	0.5	0	0	0		
8	8 Infertility.			2.5	2	0	2	0	0.5	0	0.5	0	0	0		
9	Modern aspects of family planning. Methods of contraception. Medical criteria for the acceptability of using WHO contraceptive methods.			2.5	2	0	2	0	0.5	0	0.5	0	0	0		
10	Physiological pregnancy, childbirth and the postpartum period. Perinatal protection of the fetus. Pharmacotherapy in obstetrics.				2.5	2	0	2	0	0.5	0	0.5	0	0	0	

1	2	3	4	5	6	7	8	9	10	11	12	13
11	Early gestosis. Hypertensive disorders during pregnancy. Preeclampsia. Eclampsia.		2	0	2	0	0.5	0	0.5	0	0	0
12	Early termination of pregnancy. Postponement of pregnancy. Multiple pregnancy.	5	4	0	4	0	1	0	1	0	0	0
13	Anomalies of the bony pelvis. The problem of macrosomia in modern obstetrics. Mismatch of fetal head and mother's pelvis. Incorrect positions and pelvic presentation of the fetus.		4	0	4	0	1	0	1	0	0	0
14	Bleeding during pregnancy, childbirth and the postpartum period. Hemorrhagic shock. DIC-syndrome. Intensive therapy and resuscitation for bleeding in obstetrics.		4	0	4	0	1	0	1	0	0	0
15	Abnormalities of the contractile activity of the uterus. Childbirth traumatism of mother and fetus. Modern approaches to diagnosis and treatment of maternal and fetal birth injuries.	2.5	2	0	2	0	0.5	0	0.5	0	0	0
16	Pregnancy and childbirth with extragenital diseases. Perinatal infections. Prevention of vertical transmission of HIV.	2.5	2	0	2	0	0.5	0	0.5	0	0	0
17	Operative interventions in obstetrics.	2.5	2	0	2	0	0.5	0	0.5	0	0	0
18	Postpartum septic diseases.	2.5	2	0	2	0	0.5	0	0.5	0	0	0
19	Placental dysfunction, delayed fetal development, fetal distress. Immunological incompatibility of maternal and fetal blood. Anomalies of the fertilized egg.	5	4	0	4	0	1	0	1	0	0	0
20	Performance of practical skills and manipulations.	2.5	2	0	2	0	0.5	0	0.5	0	0	0
21	Final lesson: diff. test.	2.5	2	0	2	0	0.5	0	0.5	0	0	0
Assesment												
1	1 Graded Credit		0	0	0	0	6	0	0	0	6	0
Indep	Independent extracurricular tasks											
1	1 extracurricular tasks		0	0	0	0	9	0	0	0	0	9
Tota	l (full-time course)	90	60	0	60	0	30	0	15	0	6	9
			l	l	l	l	l	l	l	l	l	

	UNIVERISTY POLICIES FOR THE COURSE «Obstetrics and Gynecology» Higher education level The Second Level Of Higher Education, National Qualifications Framework Of Ukraine – The 7th Level, QF-LLL – The 7th Level, FQ-EHEA – The Second Cycle Major: Educational programme 222 Medicine: Medicine Form of study full-time course Language of instruction English
Teacher(s)	Herasymenko Svitlana Fedorivna, Nikitina Iryna Mykolaivna
Contact	канд. мед. наук, асистент кафедри акушерства, гінекології та планування сім'ї Герасименко Світлана Федорівна, e-mail: s.herasymenko@med.sumdu.edu.ua доктор мед. наук, професор, завідувач кафедри акушерства, гінекології та планування сім'ї Нікітіна Ірина Миколаївна, e-mail: i.nikitina@med.sumdu.edu.ua
Time and room for giving consultations	KNP SOR "Regional Clinical Perinatal Center", every Thursday 16.00-18.00
Links to online educational platforms	https://elearning.sumdu.edu.ua/works/7295/nodes/2181597#anchor21 8 1 5 9 7 https://elearning.sumdu.edu.ua/works/7295/nodes/2181665#anchor21 8 1 6 6 5 https://elearning.sumdu.edu.ua/works/7295/nodes/2181666#anchor21 8 1 6 6 6 https://elearning.sumdu.edu.ua/works/7295/nodes/2181667#anchor21 8 1 6 6 7 https://elearning.sumdu.edu.ua/works/7295/nodes/2186246#anchor21 8 6 2 4 6 https://elearning.sumdu.edu.ua/works/5071/nodes/1051769#anchor10 5 1 7 6 9 https://elearning.sumdu.edu.ua/works/5071/nodes/1051773#anchor10 51773
Link to the syllabus in the course catalogue	https://pg.cabinet.sumdu.edu.ua/report/course/5b20d20dc90b5f9272a c663881a6c9b65211119
Communication tools	Mix.sumdu.edu.ua, електронна скринька, telegram, viber

POLICIES

Academic integrity policy

All assignments specified in the syllabus must be completed by the student independently. Cheating during any type of assessment is prohibited. The work of a higher education student must not contain plagiarism, fabrication, falsification, or cheating. All written assignments are subject to a plagiarism check, followed by the instructor's analysis of the results in order to determine the correctness of references to textual and illustrative sources.

During the study of the course, other manifestations of academic dishonesty, as defined by the University Code of Academic Integrity, are also unacceptable.

In case of violations of academic integrity by a higher education student during the study of the course, the instructor has the right to take one of the following actions:

- reduce by up to 40% the number of points earned for a practical assignment;

- provide recommendations for revising a compulsory homework assignment with a reduction of the final score by up to 25%;
- not accept a compulsory homework assignment without granting the right to resubmit it;
- assign a retake of a written module or final assessment with a reduction of the final score by up to 15%;
- refuse to grant a retake of a written module or final assessment.

Policy on the use of artificial intelligence tools

The policy on the use of artificial intelligence tools is announced by the instructor at the beginning of the course.

The policy for the use of artificial intelligence tools (ChatGPT, Tome, etc.) is announced by the teacher at the beginning of the course.

Несанкціоноване використання інструментів штучного інтелекту ϵ порушенням академічної доброчесності.

Policy on the use of open access resources

When utilizing materials from open-access sources in the preparation of assignments specified in the syllabus, students must strictly adhere to the terms of the applicable Creative Commons licenses and ensure proper attribution in accordance with copyright regulations.

Attendance policy

Class attendance is mandatory. Under justified circumstances (e.g., illness, participation in academic mobility programs), studies may be conducted according to an individual schedule.

Policy on deadlines and retakes

In case of an unsatisfactory result, the student has the right to retake twice retake the semester exam - the first time for the examiner, appointed by the head of the department, the second - to the commission that is being created dean's office. Retaking the exam is carried out separately schedule approved by the dean's office. Students who did not appear for the exam without a valid reason, are considered to have received unsatisfactory rating. The student's refusal to take the exam the task is certified as an unsatisfactory answer. The student has the right to receive an explanation of the received assessment.

If the total number of points obtained as a result of all assessments corresponds to a passing grade (subject to the mandatory requirement of fulfilling all conditions specified in the syllabus and regulations), it is considered final; a passing grade may not be retaken for the purpose of improvement.

The elimination of academic debt is carried out in accordance with the Regulations on the Organization of the Educational Process of Sumy State University, taking into account the established deadlines, forms of assessment, and procedures for retaking assessment activities.

Policy on appealing assessment results

Appeals and consideration of applications from higher education students regarding the assessment of learning outcomes are carried out in accordance with the Regulations on the Organization of the Educational Process of Sumy State University.

Assessment criteria

The second semester of teaching

SA1. Final control: diff. test, 80 scores					
5 (Excellent) Outstanding performance without errors	170 ≤ RD ≤ 200 68-80 points				
4 (Good) Above the average standard but with minor errors	140 ≤ RD < 169 56-67 points				

3 (Satisfactory) Fair but with significant shortcomings	120 ≤ RD < 139 48-55 points
2 (Fail) Fail – some more work required before the credit can be awarded	0 ≤ RD < 119 0-47 points
SA2. Assessment of written works, surveys, solving a clinical case, 10 scores	S
5 (Excellent) Outstanding performance without errors	170 ≤ RD ≤ 200 9-10 points
4 (Good) Above the average standard but with minor errors	140 ≤ RD < 169 7-8 points
3 (Satisfactory) Fair but with significant shortcomings	120 ≤ RD < 139 6 points
2 (Fail) Fail – some more work required before the credit can be awarded	0 ≤ RD < 119 0-5 points
SA3. Final testing, 10 scores	
5 (Excellent) Outstanding performance without errors	170 ≤ RD ≤ 200 9-10 points
4 (Good) Above the average standard but with minor errors	140 ≤ RD < 169 7-8 points
3 (Satisfactory) Fair but with significant shortcomings	120 ≤ RD < 139 6 points
2 (Fail) Fail – some more work required before the credit can be awarded	0 ≤ RD < 119 0-5 points
SA4. Current evaluation of the level of theoretical and practical training, 20	0 scores
5 (Excellent) Outstanding performance without errors	170 ≤ RD ≤ 200 17-20 points
4 (Good) Above the average standard but with minor errors	140 ≤ RD < 169 14-16 points
3 (Satisfactory) Fair but with significant shortcomings	120 ≤ RD < 139 12-13 points
2 (Fail) Fail – some more work required before the credit can be awarded	0 ≤ RD < 119 0-11 points
SA5. Assessment of performance of practical skills and manipulations, 80 se	cores
5 (Excellent) Outstanding performance without errors	170 ≤ RD ≤ 200 68-80 points
4 (Good) Above the average standard but with minor errors	140 ≤ RD < 169 56-67 points
3 (Satisfactory) Fair but with significant shortcomings	120 ≤ RD < 139 48-55 points
2 (Fail) Fail – some more work required before the credit can be awarded	0 ≤ RD < 119 0-47 points