

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	Medical Institute. Department of Obstetrics, Gynecology and Family Planning
Author(s)	Boiko Alesia Valeriivna
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
Semester	2 weeks across 11 semester
Workload	The amount is 4. 5 ECTS credits, 135 hours, of which 60 hours is contact work with the teacher (60 hours of practical training), 75 hours is independent work
Language(s)	English

2. Place in the study programme

Relation to curriculum	Compulsory course available for study programme "Medicine"
Prerequisites	Krok-1, A prerequisite for studying the discipline is the need to study human anatomy, physiology, histology, cytology and embryology, Latin and medical terminology, medical biology, topographic anatomy, medical informatics, biological and bioorganic chemistry, microbiology, virology and immunology.
Additional requirements	There are no specific requirements
Restrictions	There are no specific restrictions

3. Aims of the course

The purpose of teaching the discipline "Obstetrics and Gynecology" is: the acquisition of knowledge from physiological and pathological obstetrics, conservative and operative gynecology, assimilation general principles of pregnancy, childbirth and the postpartum period, the ability to analyze obstetric situation and surgical risks of the gynecological patient, use the basic and additional research methods, demonstrate skills and abilities according to educational and professional programs (EPP).

4. Contents

Module 3. Obstetrics and gynecology.

Topic 1 Menstrual dysfunction in reproductive age, neuroendocrine syndromes. Physiological and pathological conditions in the perimenopausal period.

Menstrual disorders in reproductive age. Neuroendocrine syndromes in gynecology: premenstrual, menopausal, polycystic ovary syndrome, syndrome Sheehan, hyperandrogenism, hyperprolactinemia. Clinic, modern diagnostic methods and principles treatment. The concept of perimenopausal period. Physiological changes in the female genitals during perimenopause. Pathological conditions in the perimenopausal period. Omissions and prolapse of the walls of the vagina and uterus: diagnosis, treatment, prevention.

Topic 2 Pathological conditions of the reproductive system in children and adolescents. Methods contraception for adolescents.

Modern methods of examination of girls and adolescents with gynecological diseases. Violation menstrual function in adolescence, classification, diagnosis and treatment. Amenorrhea. Juvenile uterine bleeding. Therapy, rehabilitation and prevention of menstrual disorders functions in girls. Anomalies in the development of the genitals. Disorders of sexual development in teenagers. Inflammatory diseases of the genitals in girls and adolescents. Clinic, diagnosis and treatment. Methods of contraception in adolescents. Features of selection and application 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. Diagnosis, treatment and prevention of sexually transmitted diseases.

Topic 4 Benign neoplasms of the female genitals. Dyshormonal diseases breast. Genital endometriosis.

Benign neoplasms of the female genitals. Diagnosis, treatment and prevention. Dyshormonal diseases of the breast. Modern methods of diagnosis, treatment and prevention. Endometriosis. Modern aspects of etiopathogenesis, diagnosis, treatment, and prevention of endometriosis.

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

Background and precancerous diseases of the female genitals. Modern diagnostic methods, principles of treatment and prevention. Malignant neoplasms of the female genitals. Modern diagnostic methods, principles of treatment and prevention.

Topic 6 Emergencies in gynecology.

Modern approaches to diagnosis and emergency care in acute abdomen. Modern approaches to diagnosis and emergency care for uterine bleeding. Basic principles and methods surgical interventions for emergencies in gynecology. Traumatic genital injuries bodies. Clinic diagnosis and treatment. Differential diagnosis with acute surgery pathology (appendicitis, intestinal obstruction, cholecystitis, renal colic, perforated gastric ulcer). Prevention of emergencies in gynecology.

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

Indications, contraindications, conditions and types of operations on the cervix; uterus (conservative myomectomy, uterine defundation, supravaginal amputation of the uterus, extirpation of the uterus), uterine appendages, with the omission and prolapse of the female genitalia. Artificial abortion in early and late terms, indications, methods, complications. Therapeutic and diagnostic endoscopic methods in gynecology. Features of preparation and postoperative management of gynecological patients at urgent and planned surgical interventions. Postoperative complications and their prevention. Rehabilitation after gynecological interventions. Prevention of HIV infection in medical institutions. Preventing the risk of blood-borne infections and ways to reduce them. Post-exposure prophylaxis.

Topic 8 Infertility.

Medical and social significance of the problem of infertility in marriage. Etiopathogenetic factors of development infertility. Examination of a married couple in a barren marriage. Modern principles and methods treatment of female infertility. Indications for the use of assisted reproductive technologies.

Topic 9 Modern aspects of family planning. Methods of contraception. Medical eligibility criteria use of WHO contraceptive methods.

Counseling on the choice and use of contraception: stages of counseling. Methods contraception according to periods of life. Modern methods of contraception: classification, mechanism actions, advantages, disadvantages, necessary examination before use, mode of use, side effects, instructions for the patient. Postpartum and post-abortion contraception. Medical WHO eligibility criteria: classification of categories, use of summary tables. Methods 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 diagnostic methods condition of the fetus. Features of pharmacotherapy in different stages of pregnancy and in the postpartum period. Questions 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 gestosis (vomiting, hypersalivation). Clinic, diagnosis and treatment of early gestosis. Hypertension during pregnancy. Edema during pregnancy. Proteinuria during pregnancy. Preeclampsia. Eclampsia. Clinic, diagnosis, differential diagnosis, methods of treatment, the impact on the condition of the fetus. Rare forms of preeclampsia. Pregnancy management tactics, childbirth and the postpartum period in late preeclampsia. Emergency aid. Prevention late preeclampsia and rehabilitation.

Topic 12 Premature termination of pregnancy. Postponement of pregnancy. Multiple pregnancy. Etiology and pathogenesis of premature termination of pregnancy at different times. Classification, clinic, diagnosis, treatment and prevention of miscarriage. Premature birth. Features conducting premature births. Prevention of miscarriage. Etiology and pathogenesis postponement of pregnancy. Methods of diagnosis of pregnancy. The course of pregnancy and childbirth, effects on the fetus. Tactics of delayed pregnancy. Prevention and therapy carry-on complications. Multiple pregnancy: classification and diagnosis. Tactics of pregnancy and childbirth with multiple births. Feto-fetal transfusion syndrome, IDOF (intrauterine death of one fetus)

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

Anomalies of the pelvis. Childbirth with a narrow pelvis. Features of childbirth at large fruit. Tactics of childbirth with a large fetus, clinically narrow pelvis. Pregnancy and childbirth with pelvic presentation. Wrong position of the fetus. Methods of diagnosis and correction wrong position of the fetus. Features of obstetric tactics during pregnancy and childbirth depending on the type of presentation and position of the fetus.

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

Bleeding during pregnancy, childbirth and the postpartum period. Etiology, pathogenesis, clinic, diagnostics. Algorithm of actions of the doctor and methods of struggle against bleeding. Hemorrhagic shock. DIC syndrome. Modern approaches to infusion-transfusion and intensive care and resuscitation at bleeding in obstetrics.

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

Classification, etiology, pathogenesis of various types of anomalies of labor. Modern methods diagnosis and treatment of labor disorders. Prevention of maternity disorders activities. Maternal and fetal birth injuries, classification. Modern approaches to diagnostics and treatment of maternal and fetal birth injuries. Features of pregnancy and childbirth in women with 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 in diseases of the cardiovascular system (heart disease, hypertension disease, hypotension); diseases of the urinary system; liver and bile bubble; diseases of the hematopoietic organs; respiratory organs; organs of the digestive system; endocrine systems; nervous system; organs of vision; acute and chronic infectious diseases, tuberculosis. The course of pregnancy and childbirth in gynecological diseases. Features course and tactics of management in acute surgical pathology. Perinatal infections in pregnant women: clinical course, diagnosis, management tactics, treatment, prevention. Principles of conduct pregnancy and childbirth in women with HIV. Prevention of vertical transmission of HIV.

Topic 17 Surgical interventions in obstetrics.

Indications, contraindications, conditions and preparation for surgery in vaginal and abdominal delivery in obstetrics. The main stages of obstetric operations. Anesthesia operations. Tools. Asepsis and antiseptics. Management of the postoperative period.

<p>Topic 18 Postpartum septic diseases.</p> <p>Postpartum septic diseases. Classification, etiology, pathogenesis, diagnosis, principles treatment, prevention. Emergency care for septic conditions in obstetrics. Indications to surgical treatment.</p>
<p>Topic 19 Placental dysfunction, fetal developmental delay, fetal distress.</p> <p>Etiology, pathogenesis of placental dysfunction, fetal distress, fetal developmental delay. Modern perinatal diagnostic technologies. Modern approaches to the tactics of adverse management conditions of the fetus during pregnancy and childbirth.</p>
<p>Topic 20 Immunological incompatibility of maternal and fetal blood. Anomalies of the fertilized egg.</p> <p>Immunological incompatibility of maternal and fetal blood (rhesus conflict, incompatibility according to the ABO system, isoleukocyte, etc.). Pathogenesis, diagnosis, management of pregnancy, selection of the optimal term childbirth. Management of childbirth and the postpartum period in immunological conflict. Prevention. Anomalies in the development of the fertilized egg. Anomalies of extraembryonic elements of the fetus eggs (placenta, amniotic membranes and umbilical cord). Trophoblastic diseases (bubble drift). Polyhydramnios and hypohydramnios: causes, clinic, tactics of pregnancy and childbirth, consequences for the fetus and newborn.</p>
<p>Topic 21 Final lesson: diff. test "Obstetrics and Gynecology".</p> <p>Diff test will include: answers to theoretical questions, questions to the computer test control, performance of a practical task, provision of emergency care.</p>

5. Intended learning outcomes of the course

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

LO1	Ability to collect medical information about the patient and analyze clinical data.
LO2	Ability to determine the required set of laboratory and instrumental studies and to evaluate their results.
LO3	Ability to establish a provisional and clinical diagnosis of disease.
LO4	Ability to determine the necessary mode of work, rest, and diet in the treatment course.
LO5	Ability to determine the principles of treatment and treatment modality and to perform medical procedures.
LO6	Ability to diagnose medical emergencies, determine the approach to emergency medical care, implement medical evacuation procedures.
LO7	Ability to solve medical problems in new or unfamiliar environments given incomplete or limited information, taking into account aspects of social and ethical responsibility.
LO8	Ability to determine the approach to physiological pregnancy, physiological delivery, and postpartum period. Skills in counseling with regard to family planning and contraceptive method selection.
LO9	Ability to perform sanitary and preventive measures.

LO10	Ability to plan and conduct preventive and disease control measures for infectious diseases.
LO11	Ability to perform disability examination.
LO12	Ability to maintain medical records, including electronic documents.
LO13	Ability to conduct epidemiological and medical-statistical research of public health; ability to process governmental, social, economic, and medical information.
LO14	Ability to assess the influence of environment, socio- economic and biological determinants on the health of a person, family, or population.
LO15	Ability to analyze activity of a doctor, department, or healthcare institution; to carry out measures for providing healthcare quality and to increase the efficiency of medical resources.
LO16	Ability for organization and integration of public medical care and marketing of medical service.
LO17	Ability to integrate knowledge and solve complex health problems in a broad or multidisciplinary context.
LO18	Ability to manage healthcare workflows that are complex, unpredictable and require new strategic approaches
LO19	Ability to develop and implement scientific and applied healthcare projects.

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 patient's anamnesis, patient's examination data, and knowledge about a human, his organs and systems.
PO2	To collect information about the patient's general condition; to assess the patient's 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 patient's condition severity (according to the List 3) via informed decision and evaluation of the person's 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 patient's 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 patient's 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 patient's 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. Teaching and learning activities

7.1 Types of training

Topic 1. Menstrual dysfunction in reproductive age, neuroendocrine syndromes. Physiological and pathological conditions in the perimenopausal period.

pr.tr.1 "Menstrual dysfunction in reproductive age. Physiological and pathological conditions in the perimenopausal period." (full-time course)

Classification of disorders of the reproductive system. Amenorrhea: classification, diagnostics. Abnormal uterine bleeding. Clinic, modern diagnostic methods and principles of treatment from the standpoint of evidence-based medicine. The problem of menstrual disorders functions at different ages. Modern methods of diagnosis and treatment. Study of this topic involves theoretical work in the classroom, in the simulation center (work with phantoms, training tables, gynecological tools), application virtual simulation (watching movies about neuroendocrine regulation of menstruation cycle) with further discussion. In the absence of quarantine restrictions, work in women's consultation (according to the agreement on cooperation between the medical institution and university).

pr.tr.2 "Neuroendocrine syndromes in gynecology." (full-time course)

Questions of gynecological endocrinology. Neuroendocrine syndromes in gynecology: premenstrual, menopausal, polycystic ovary syndrome, Sheehan's syndrome, hyperandrogenism, hyperprolactinemia. Clinic, modern diagnostic methods and principles treatment from the standpoint of evidence-based medicine. The study of this topic involves theoretical work in the study room, simulation center (work with phantoms, training tables, gynecological tools), the use of virtual simulation (watching movies with further discussion). In the absence of quarantine restrictions work in women's counseling with the development of counseling skills gynecological patients, conducting tests of functional diagnostics (according to the agreement on cooperation between the medical institution and the university).

Topic 2. Pathological conditions of the reproductive system in children and adolescents. Methods contraception for adolescents.

pr.tr.3 "Pathological conditions of the reproductive system in children and adolescents. Methods contraception for adolescents." (full-time course)

Anatomical and physiological features of the genitals of a girl in the process of formation reproductive system. Features of the survey of girls. Inflammatory diseases genitals in children and adolescents. Menstrual dysfunction. Tumors and injuries of the genitals. The study of this topic involves theoretical work in the study room, simulation center (work with the phantom, gynecological tools), the use of virtual simulation (watching thematic movies with further discussion). In the absence of quarantine restrictions work in the women's consultations with mastering of skills of consultative reception of gynecological patients, collection of gynecological and reproductive history, examination in mirrors, bimanual palpation (according to the agreement on cooperation between the medical institution and the university). Introduction to the features of vaginal surgery for genital prolapse (presence in the operating room with the teacher).

Topic 3. Female urogenital inflammatory diseases.

pr.tr.4 "Women's urogenital inflammatory diseases." (full-time course)

Master the methods of modern diagnosis and treatment of acute and chronic inflammatory processes of female genitals, management of patients with purulent tuboovarian tumor. Indications for surgical treatment from the standpoint of evidence-based medicine. Examine the features course of inflammatory diseases of the female genital organs at different ages, to master tactics of management and further rehabilitation of women who have undergone inflammatory processes. The study of this topic involves work in the classroom, simulation center (work with gynecological tools), the use of virtual simulation (viewing) thematic films with further discussion). Work in a women's clinic with mastering the skills of consultative reception of gynecological patients, collection gynecological and reproductive history, work in the ultrasound room diagnostics, gynecological department, work in a small operating room with the development of skills puncture through the posterior arch, laparoscopic operating room during removal tuboovarian abscess (in the absence of quarantine restrictions, according to the agreement on cooperation between the medical institution and the university).

Topic 4. Benign neoplasms of the female genitals. Dyshormonal diseases breast. Genital endometriosis.

pr.tr.5 "Benign neoplasms of the female genitalia. Genital endometriosis." (full-time course)

Benign tumors and tumor-like diseases of the female genitalia. Concept cysts and ovarian tumors. Benign ovarian tumors: epithelial, stromal tumors genital warts, lipid-cell tumors, germinogenic tumors. Tumor-like ovarian formation. Benign tumors of the uterus. Clinic, modern diagnostic methods, treatment from the standpoint of evidence-based medicine. The problem of endometriosis. Etiopathogenetic aspects of endometriosis. Classification. Clinic. The study of this topic involves theoretical work in the study room, simulation center (work with gynecological tools), the use of virtual simulation (watching movies with subsequent discussion). Work in a women's clinic with the development of counseling skills reception of gynecological patients, work in an office of ultrasonic diagnostics, to be able distinguish between tumor-like diseases of the ovaries according to the classification of O-RADS, work in small operating room with the development of skills of diagnostic scraping of the uterine cavity, endometrial biopsy, hysteroscopy, presence in the operating room during surgery treatment of thematic patients with endometriosis with the use of laparoscopic techniques (according to the agreement on cooperation between the medical institution and the university, provided no quarantine restrictions). Master the methods of diagnosis, treatment and prevention of endometriosis.

pr.tr.6 "Dyshormonal diseases of the breast." (full-time course)

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

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

pr.tr.7 "Malignant neoplasms of the female genitalia." (full-time course)

Malignant neoplasms of the external female genitalia (vulvar cancer). Cervical cancer uterus. Cancer of the uterine body. Uterine sarcoma. Ovarian cancer. Uterine cancer. Classification, clinic, diagnosis, management tactics and principles of treatment from the standpoint of evidence medicine. Trophoblastic diseases. The study of this topic involves theoretical work in the study room, simulation center (work with gynecological tools), the use of virtual simulation (watching thematic movies with further discussion). Work in a women's clinic with the development of skills consultative reception of gynecological patients, work with a colposcope, to master skills of cytological examination of the cervix, collection of material for biopsy (according to cooperation agreement between the university and the clinical institution, in the absence quarantine restrictions)

pr.tr.8 "Background and precancerous diseases of the female genitalia." (full-time course)

Background and precancerous diseases of the external genitalia. Background and precancerous cervical disease: classification. Hyperplastic processes of the endometrium: etiology, pathogenesis, classification, modern diagnostic methods, management tactics and principles 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 the study room, simulation center (work with gynecological tools), the use of virtual simulation (watching thematic movies with further discussion). Work in a women's clinic with the development of skills consultative reception of gynecological patients, work with a colposcope, to master skills of cytological examination of the cervix, collection of material for biopsy (according to cooperation agreement between the university and the clinical institution, in the absence quarantine restrictions).

Topic 6. Emergencies in gynecology.

pr.tr.9 "Emergencies in gynecology." (full-time course)

The problem of "Acute Abdomen" in gynecology. Modern approaches to diagnostics, differential diagnosis, treatment from the standpoint of evidence-based medicine and prevention urgent gynecological conditions. Ectopic pregnancy, ovarian apoplexy, rupture ovarian tumor capsules, torsion of the leg of the ovarian tumor, purulent rupture tuboovarian tumor. Emergencies with uterine fibroids, eating disorders myoma. Traumatic injuries of the genitals. The problem is urgent gynecological care, basic principles and methods of surgical interventions in emergencies in gynecology. The study of this topic involves theoretical work in training room, simulation center (work with gynecological tools), application of virtual simulation (watching movies with further discussion). Except moreover, when studying this topic, role-playing games are provided, in the absence of quarantine restrictions work at the patient's bedside in specialized departments of the medical institution (according to the agreement on cooperation between the medical institution and the university). Drawing up a treatment plan for the patient.

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

pr.tr.10 "Surgical interventions in gynecology. Preparation and postoperative management of gynecological patients with urgent and planned surgical interventions." (full-time course)

Preoperative preparation of gynecological patients. Management of the postoperative period. Operations on the vaginal part of the cervix. Operations for lowering and prolapse of the genitals bodies. Gynecological operations on the appendages and uterus. Small gynecological operations. Endoscopic surgery (laparoscopy, hysteroscopy). Acquaintance with features of preoperative preparation and postoperative gynecological management patients. Anesthesia during gynecological operations. Rehabilitation after gynecological interventions. this topic involves theoretical work in the classroom, simulation center (work with gynecological tools), the use of virtual simulation (watching movies with recordings of surgical interventions with further discussion). By no quarantine restrictions work in the gynecology department, small operating room with the development of skills of puncture through the posterior arch, endoscopic operating room, presence at operations (according to the agreement on cooperation between medical institution and university).

pr.tr.11 "Prevention of HIV infection." (full-time course)

Prevention of HIV infection in medical institutions. Prevention of the risk of blood-borne infections and methods decrease. Post-exposure prophylaxis. Acquaintance with features of preoperative preparation and postoperative gynecological management patients. Anesthesia during gynecological operations. Rehabilitation after gynecological interventions. this topic involves theoretical work in the classroom, simulation center (work with gynecological tools), the use of virtual simulation (watching movies with recordings of surgical interventions with further discussion).

Topic 8. Infertility.

pr.tr.12 "Infertility." (full-time course)

Medical and social support for the problem of infertility in marriage. Study of modern principles and methods of treatment of female infertility (hormonal, surgical, new reproductive technologies). Features of application of modern auxiliary reproductive technologies. Etiological factors of infertility development. Study of this topic involves theoretical work in the classroom, simulation center (work with gynecological tools), the use of virtual simulation (review thematic films with an algorithm for examining a married couple with infertility, application of assisted reproductive technologies with further discussion). By lack of quarantine restrictions work in a women's clinic with the development of skills consultative reception of gynecological patients, collection of gynecological and reproductive history, examination in mirrors, 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 eligibility criteria use of WHO contraceptive methods.

pr.tr.13 "Modern aspects of family planning. Methods of contraception. Medical eligibility criteria use of WHO contraceptive methods." (full-time course)

Organization, structure and tasks of the family planning service. Advice on issues family planning: directions, benefits, counseling process. Family planning for people living with HIV. Classification, mechanism of action and efficiency of modern contraceptives from the standpoint of evidence-based medicine. The study of this topic involves theoretical work in the classroom, simulation center (work with gynecological tools), the use of virtual simulation (watching movies by means contraception with further discussion). In the absence of quarantine restrictions work in the profile departments of the medical institution (according to the cooperation agreement between the medical institution and the university). Introduction to modern methods contraception: COCs, vaginal ring, contraceptive patch, PTP, injectable, IUD, barrier methods and spermicides. Introduction to fertility recognition methods, voluntary surgical sterilization, emergency contraception. Necessary examinations that are carried out in a planned manner before making a decision on use specific method of contraception.

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

pr.tr.14 "Physiological pregnancy, childbirth and the postpartum period. Perinatal protection of the fetus. Pharmacotherapy in obstetrics." (full-time course)

Management of physiological pregnancy. Features of management of pregnant women in the conditions of a woman consultations. Basic principles of normal childbirth. Clinic and management postpartum period. The study of this topic involves theoretical work in training room, simulation center (mastering practical skills with using the obstetric phantom: to conduct an external obstetric examination (Leopold's techniques, auscultation of fetal heartbeat, pelviometry); to conduct internal obstetric examination, measurement of diagonal conjugate. In the absence quarantine restrictions provide for work in a women's clinic or obstetric hospital at the patient's bedside (according to the cooperation agreement between medical institution and university): be able to collect and evaluate the anamnesis, establish gestational age, estimated term of birth and fetal weight. Work in the delivery room (presence of the student during childbirth). Keeping partograms (working with medical documentation). Acquaintance with the order of partogram recording, evaluation of results examination of the fetus (work with the equipment of the medical institution - fetal cardiomonitor, CTG, ultrasound, BPP, blood flow Doppler). Interpretation of results and determination of tactics of management of the pregnant woman depending on the received results. Application of virtual simulation (watching movies on physiological childbirth) with further discussion.

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

pr.tr.15 "Early gestosis. Hypertensive disorders during pregnancy. Preeclampsia. Eclampsia." (full-time course)

Early gestosis: 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, management tactics positions of evidence-based medicine. The study of this topic involves theoretical work in training room, in the simulation center (practice of skills on phantoms), application of virtual simulation (watching movies on emergency care in an eclampsia attack with further discussion, video discussion of treatment approaches and prevention of preeclampsia from the standpoint of modern European obstetric schools). Except in addition, the study of this topic involves role-playing games, assessment the results of laboratory tests. If possible, work at the patient's bedside. in profile departments of the medical institution (according to the agreement on cooperation between medical institution and university): work in the department of extragenital pathology and obstetric resuscitation (determination of tactics of pregnancy and childbirth in late preeclampsia, mastering the algorithm of emergency care in case of eclampsia).

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

pr.tr.16 "Premature termination of pregnancy. Postponement of pregnancy." (full-time course)

The threat of premature birth: diagnosis, treatment, obstetric tactics. Prevention miscarriage. Tactics of premature birth. Etiology and pathogenesis delayed pregnancy. Features of pregnancy and childbirth. Indications and conditions induction of labor. Methods of induction of labor. The study of this topic involves theoretical work in the classroom, in the simulation center. In the absence quarantine restrictions work in an obstetric hospital (according to the agreement on cooperation): continuing to practice the skills of cervical examination in mirrors, performing pH-metry of vaginal contents to determine amniotic fluid leakage waters, assessment of the degree of maturity of the cervix by Bishop). Application of virtual simulations (watching movies demonstrating the clinical manifestations of the threat of premature childbirth). In the study of this pathology, role-playing games are provided: practice skills to make a preliminary diagnosis of premature birth and plan management tactics. Plan preventive measures at the risk of premature birth. It is assumed development of methods of preinduction and induction of labor (mechanical methods preparation for childbirth: finger detachment around the membranes, the introduction of cervix Foley balloon catheter, the use of kelp, and medication intermediaries). Identification of signs confirming the transfer of pregnancy.

pr.tr.17 "Multiple pregnancy." (full-time course)

Multiple pregnancy: classification and diagnosis. Tactics of pregnancy and childbirth with multiple births. Feto-fetal transfusion syndrome, intrauterine fetal growth retardation (IFGR), intrauterine death of one fetus. In the study of this pathology, role-playing games are provided: practice skills to make a preliminary diagnosis of premature birth and plan management tactics. Plan preventive measures at the risk of premature birth. It is assumed development of methods of preinduction and induction of labor (mechanical methods preparation for childbirth: finger detachment around the membranes, the introduction of cervix of the Foley balloon catheter, the use of kelp, and medication intermediaries). Childbirth in multiple pregnancies.

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

pr.tr.18 "Pelvic anomalies. The problem of macrosomia in modern obstetrics. Inconsistency fetal head and mother's pelvis." (full-time course)

Anomalies of the pelvis. Classification, diagnosis. Diagnosis of synclitic and asynclitic insertion of the head. The problem of macrosomia in obstetrics. Clinically narrow pelvis. Features of childbirth. Wrong position of the fetus: classification, diagnosis, tactics of pregnancy. Extensible presentation of the fetal head: classification, diagnosis. Correction of incorrect positions during pregnancy. Childbirth in the wrong position of the fetus, tactics. The study of this topic involves theoretical work in the classroom, simulation center (skills development external and internal obstetric examination, application of techniques Leopold, mastering the technique of combined external-internal rotation of the fetus, extraction of the fetus by the leg, by inguinal flexion, study and development of biomechanisms childbirth with extensor presentation of the fetus using an obstetric phantom). To diagnose a clinically narrow pelvis (a sign of Vasten, Tsangenmeister). Application of virtual simulation (watching movies on the topic of the lesson with the subsequent discussion). In addition, the study of this topic provides role-playing games, mastering the skills of examination, palpation "one on one", conducting pelviometry. By lack of quarantine restrictions work in the departments of the medical institution (according to cooperation agreements between the medical institution and the university).

pr.tr.19 "Wrong positions and pelvic presentation of the fetus." (full-time course)

Wrong position of the fetus: classification, diagnosis, tactics of pregnancy. Extensible presentation of the fetal head: classification, diagnosis. Correction of incorrect positions during pregnancy. Childbirth in the wrong position of the fetus, tactics. The study of this topic involves theoretical work in the classroom, simulation center (skills development external and internal obstetric examination, application of techniques Leopold, mastering the technique of combined external-internal rotation of the fetus, extraction of the fetus by the leg, by inguinal flexion, study and development of biomechanisms childbirth with extensor presentation of the fetus using an obstetric phantom).

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

pr.tr.20 "Bleeding during pregnancy, childbirth and the postpartum period." (full-time course)

Etiology and clinic of obstetric bleeding during pregnancy, childbirth and c postpartum period. Bleeding in the first half of pregnancy (miscarriage, ectopic pregnancy, premature detachment and placenta previa). Etiology, pathogenesis, clinic, diagnosis. Pre-presentation and premature exfoliation are normal located placenta: etiology, pathogenesis, classification, clinic, diagnosis, features of the course, management of pregnancy and childbirth. Kuveler's uterus. Uterine rupture: etiology, clinic, diagnosis, features of pregnancy and childbirth. Mother bleeding in childbirth, consecutive and early postpartum period. Stopping methods bleeding. The study of this topic involves theoretical work in the classroom, simulation center (use of obstetric phantom for childbirth, training tables, medical instruments - obstetric curette, Foley catheter), application of virtual simulation (viewing of thematic films with methods of stopping bleeding) with further discussion. In the absence of quarantine restrictions, work in relevant departments of the clinical institution (according to the cooperation agreement between medical institution and university). Master practical volume estimation skills blood loss, examination of the birth canal, manual and instrumental revision of the cavity uterus, manual separation and removal of manure, bimanual compression of the uterus, compression abdominal aorta).

pr.tr.21 "Hemorrhagic shock. DIC syndrome. Intensive care and resuscitation for bleeding in obstetrics." (full-time course)

Intensive care and resuscitation for bleeding in obstetrics. Hemorrhagic shock. DIC syndrome. Pulmonary artery thromboembolism. Amniotic fluid embolism. The study of this topic involves theoretical work in the classroom, simulation center, the use of virtual simulation (watching movies with rendering algorithms 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 agreements on cooperation between the medical institution and the university): work in delivery room, intensive care unit. Master practical volume estimation skills blood loss. Be able to develop an algorithm for providing emergency care when obstetric bleeding. Develop an algorithm for providing emergency care when hemorrhagic shock, DIC syndrome. Determination of the stage of DIC syndrome, evaluation laboratory parameters. Study of modern approaches to infusion and transfusion and intensive care and resuscitation for pulmonary embolism, embolism amniotic fluid.

pr.tr.22 "Intensive care and resuscitation for bleeding in obstetrics" (full-time course)

In the absence of quarantine restrictions, work in the departments of the medical institution (according to agreements on cooperation between the medical institution and the university): work in delivery room, intensive care unit. Master practical volume estimation skills blood loss. Be able to develop an algorithm for providing emergency care when obstetric bleeding. Develop an algorithm for providing emergency care when hemorrhagic shock, DIC syndrome. Determination of the stage of DIC syndrome, evaluation laboratory parameters. Study of modern approaches to infusion and transfusion and intensive care and resuscitation for pulmonary embolism, embolism amniotic fluid.

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

pr.tr.23 "Modern approaches to the diagnosis and treatment of maternal injuries and fetus." (full-time course)

The study of this topic involves theoretical work in the study room, simulation center (development of skills with using the obstetric phantom). In the absence of quarantine restrictions, work in branches of a medical institution (according to the agreement on cooperation between medical institution and university). Practice of practical skills: determination of readiness the mother's body before childbirth; assessment of cervical maturity (scale of degrees of cervical maturity uterus by E.H. Bishop). Mastering the methods of diagnosis and treatment of maternity disorders activities. Diagnosis of periods and phases of childbirth. Monitoring of the fetus in childbirth. Work with the equipment of the clinical institution with the development of methods of registration of uterine contractions and fetal heartbeat (using a fetal heart monitor). Application of virtual simulations (watching movies on the topic of the lesson: anomalies of labor) with further discussion).

pr.tr.24 "Anomalies of contractile activity of the uterus. Obstetric trauma of the mother and fetus. Modern approaches to the diagnosis and treatment of maternal and fetal birth injuries." (full-time course)

Classification, risk factors, pathogenesis of various types of birth defects. Prevention of birth defects. The study of this topic involves theoretical work in the study room, simulation center (development of skills with using the obstetric phantom). In the absence of quarantine restrictions, work in branches of a medical institution (according to the agreement on cooperation between medical institution and university). Practice of practical skills: determination of readiness the mother's body before childbirth; assessment of cervical maturity (scale of degrees of cervical maturity uterus by E.H. Bishop). Mastering the methods of diagnosis and treatment of maternity disorders activities. Diagnosis of periods and phases of childbirth. Monitoring of the fetus in childbirth. Work with the equipment of the clinical institution with the development of methods of registration of uterine contractions and fetal heartbeat (using a fetal heart monitor). Application of virtual simulations (watching movies on the topic of the lesson: anomalies of labor) with further discussion).

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

pr.tr.25 "Pregnancy and childbirth in extragenital diseases. Perinatal infections. Prevention of vertical transmission of HIV." (full-time course)

Pregnancy and childbirth in diseases of the cardiovascular system (heart disease, hypertension, hypotension, hematopoietic diseases, diseases organs of the urinary system; liver and gallbladder; respiratory organs; bodies digestive system; endocrine system; nervous system; organs of vision; sharp and chronic infectious diseases, tuberculosis, gynecological diseases. Features of the course and tactics of management in acute surgical pathology. Study this topic involves theoretical work in the classroom, the use of virtual simulation (watching movies with algorithms for managing pregnant women with extragenital pathology) with further discussion. In the absence of quarantine restrictions work 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. Surgical interventions in obstetrics.

pr.tr.26 "Surgical interventions in obstetrics." (full-time course)

General concepts of surgical intervention in obstetrics. Obstetric forceps, vacuum extraction fetus, cesarean section: indications. Surgical interventions in sequential and postpartum period. Indications for supravaginal amputation, uterine extirpation, internal ligation iliac arteries. The study of this topic involves theoretical work in the classroom, in conditions of the obstetric hospital (in the absence of quarantine restrictions), in the simulation center (practicing the skills of small obstetric operations: operations to prepare the birth canal (perino - and episiotomy, amniotomy); obstetric forceps, vacuum extraction of the fetus, manual separation of the placenta, excretion of manure: technique; manual and tool examination of the uterus after childbirth). Determination of absolute and relative indications for caesarean section autopsy. Study of caesarean section in the lower segment of the uterus. Features preoperative preparation and postoperative management of patients. Application of virtual simulations (watching movies with further discussion).

Topic 18. Postpartum septic diseases.

pr.tr.27 "Postpartum septic diseases." (full-time course)

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 aid. Methods of suppression of lactation. The study of this topic involves theoretical work in the classroom, simulation center (work with obstetrics phantom), the use of virtual simulation (watching movies with the main clinical manifestations of postpartum septic infection) with further discussion. By lack of quarantine restrictions work in the departments of the medical institution (according to cooperation agreements between the medical institution and the university). Role play. Be able to develop an algorithm for providing emergency care for septic shock.

Topic 19. Placental dysfunction, fetal developmental delay, fetal distress.

pr.tr.28 "Placental dysfunction, fetal developmental delay." (full-time course)

Placental dysfunction: risk factors, classification, diagnosis, tactics of pregnancy, prevention. Diagnostic methods condition of the fetus: non-invasive - ultrasound, CTG, biophysical profile of the fetus, Doppler, MRI; invasive - amniocentesis, cordocentesis, chorionic villus sampling. The study of this topic involves theoretical work in the study room, simulation center (mastering practical skills in obstetric phantom). Work with the use of virtual simulation (watching movies with methods of diagnosing the condition of the fetus) with further discussion. By conditions of absence of quarantine restrictions work in profile departments of medical institution with medical equipment: fetal heart monitor, ultrasound machine diagnostics, etc. (according to the agreement on cooperation between the medical institution and university).

pr.tr.29 "Fetal distress" (full-time course)

Fetal distress: risk factors, classification, diagnosis, tactics of pregnancy, prevention. Diagnostic methods condition of the fetus: non-invasive - ultrasound, CTG, biophysical profile of the fetus, Doppler, MRI; invasive - amniocentesis, cordocentesis, chorionic villus sampling. The study of this topic involves theoretical work in the study room, simulation center (mastering practical skills in obstetric phantom). Work with the use of virtual simulation (watching movies with methods of diagnosing the condition of the fetus) with further discussion. By conditions of absence of quarantine restrictions work in profile departments of medical institution with medical equipment: fetal heart monitor, ultrasound machine diagnostics, etc. (according to the agreement on cooperation between the medical institution and university).

Topic 20. Immunological incompatibility of maternal and fetal blood. Anomalies of the fertilized egg.

pr.tr.30 "Immunological incompatibility of maternal and fetal blood. Anomalies of the fertilized egg." (full-time course)

Isoantigenic incompatibility of maternal and fetal blood (rhesus conflict, incompatibility ABO system, isoleukocyte, etc.). Hemolytic disease of the fetus and newborn. Indications for premature birth in rhesus conflict. Extraembryonic anomalies elements of the fertilized egg / placenta, fetal membranes and umbilical cord. Polyhydramnios and dehydration: causes, diagnosis, tactics of pregnancy, consequences for the fetus and newborn. Hereditary and congenital diseases of the fetus. Diagnosis. Indications to medical and genetic counseling. Multiple pregnancy: classification, diagnosis, features of the course and management of multiple pregnancy. Childbirth with multiple births pregnancy. The study of this topic involves theoretical work in the classroom, in simulation center (mastering practical skills in obstetric phantom), work with the use of virtual simulation (watching movies on pregnancy management for conditions of isoantigenic incompatibility of blood of mother and fetus) with the subsequent discussion. By conditions of absence of quarantine restrictions work in profile departments of medical institution with medical equipment: fetal heart monitor, ultrasound machine diagnostics, etc. (according to the agreement on cooperation between the medical institution and university).

Topic 21. Final lesson: diff. test "Obstetrics and Gynecology".

assessm.31 "Differentiated credit." (full-time course)

Diff credit will include: questions to the computer test control, performance practical task, providing emergency care.

7.2 Learning activities

LA1	Preparing for Krok 2
LA2	Self-study
LA3	Interpretation of laboratory (clinical analysis of blood, urine, biochemical analysis blood, hormonal research, etc.) and instrumental (colposcopy, hysteroscopy, mammography, MRI, CT, radiography, CTG, ultrasound Doppler blood flow, transvaginal cervicometry, determination biophysical profile of the fetus) examination methods
LA4	Preparation for practical classes
LA5	Preparation of multimedia presentations
LA6	Solve practical problems with the help of online technologies
LA7	E-learning in systems (Zoom, MIX.sumdu.edu.ua)
LA8	Practice of practical skills in the simulation center
LA9	Watching educational movies
LA10	Analysis of clinical cases
LA11	Practical work with the patient in the specialized departments of the hospital
LA12	Individual research project (student research, article, these, etc.)
LA13	Work with textbooks and relevant information sources
LA14	Preparation for the final differentiated test

8. Teaching methods

Course involves learning through:

TM1	Case-based learning (CBL). Training based on the analysis of a clinical case, situations
TM2	Practice-oriented learning
TM3	Educational discussion / debate
TM4	Brainstorming
TM5	Role Playing game
TM6	Team-based learning (TBL). Team-oriented training
TM7	Research-based learning (RBL). Learning through research

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

GC 1. Ability to abstract thinking, analysis, and synthesis. GC 2. Ability to learn, master modern knowledge, and apply the knowledge in practice. GC 3. Knowledge and understanding of the subject area and professional activity comprehension. GC 4. Ability to adapt and act in a new situation. GC 5. Ability to make reasoned decisions; teamwork ability; interpersonal skills. GC 6. Ability to communicate in a foreign language. GC 7. Ability to use information and communication technologies. GC 8. Determination and persistence on the tasks and commitments undertaken. GC 9. Ability to exercise one's rights and responsibilities as a member of society, to realize the values of civil (free democratic) society and the need for its sustainable development, the rule of law, human rights and freedoms; GC 10. Ability to maintain and multiply moral, cultural, scientific values and achievements of society based on understanding the history and development patterns of the subject area.

9. Methods and criteria for assessment

9.1. Assessment criteria

ECTS	Definition	National scale	Rating scale
A	Outstanding performance without errors	5 (Excellent)	$90 \leq RD \leq 100$
B	Above the average standard but with minor errors	4 (Good)	$82 \leq RD < 89$
C	Generally sound work with some errors	4 (Good)	$74 \leq RD < 81$
D	Fair but with significant shortcomings	3 (Satisfactory)	$64 \leq RD < 73$
E	Performance meets the minimum criteria	3 (Satisfactory)	$60 \leq RD < 63$
FX	Fail – some more work required before the credit can be awarded	2 (Fail)	$35 \leq RD < 59$
F	Fail – considerable further work is required	2 (Fail)	$0 \leq RD < 34$

9.2 Formative assessment

FA1	Teacher's instructions in the process of performing practical tasks
FA2	Peer assessment
FA3	Solving situational problems with Krok-2
FA4	Testing
FA5	Defense of an individual research project (speech at a conference, competition of scientific works)
FA6	Independent performance by students of situational exercises on practical ones classes and their discussion.
FA7	Interviews and oral comments of the teacher on his results
FA8	Checking and evaluating written assignments
FA9	Solving clinical cases

9.3 Summative assessment

SA1	Evaluation of written works, surveys, solving a clinical case
SA2	Testing
SA3	Protection of an individual research project (incentive activities, additional points)
SA4	Execution of a practical case (preparation, presentation, defense)
SA5	Final control: diff. test

Form of assessment:

11 semester		200 scores
SA1. Evaluation of written works, surveys, solving a clinical case		100
		100
SA2. Testing		10
		10
SA4. Execution of a practical case (preparation, presentation, defense)		10
		10
SA5. Final control: diff. test		80
	Answer to theoretical questions (3x15)	45
	Execution of a practical task	15
	Providing emergency care	20

Form of assessment (special cases):

11 semester		200 scores
SA1. Evaluation of written works, surveys, solving a clinical case		120

	In case of quarantine restrictions, practical classes are carried out in a remote mode with application platform Mix.sumdu.edu.ua, Zoom, Google meet.	120
SA5. Final control: diff. test		80
	In the case of quarantine restrictions, the compilation of diff. offset is carried out in the remote mode with application platforms Mix.sumdu.edu.ua, Zoom, Google meet.	80

When mastering the materials of the student module for each practical lesson is assigned maximum 5 points (score is set in the traditional 4-point grading system). At the end of the academic year, the arithmetic mean of student performance is calculated. The maximum number of points that a student can receive in practical classes during academic year - 100. The number of student points is calculated by the formula 100 multiplied on the arithmetic mean and divide by 5. For diagnostic testing the student receives maximum 10 points. The minimum number of points that a student must receive is 6 points. The maximum number of points for the current educational activities of the student - 120. Student allowed to diff. offset provided that the requirements of the curriculum are met and if for the current educational activity he scored at least 72 points: 60 points during practical classes, 6 points for the practical case (preparation, presentation, defense) and 6 points for testing. Diff. the offset is made according to the schedule at the end of the cycle. Tickets contain 3 theoretical questions on various topics and cover all sections of the curriculum disciplines (15 points each), 1 practical task (15 points) and the issue of provision emergency care (20 points). The credit is credited to the student if he scored at least 48 points out of 80. Incentive points are added to the grade in the discipline for performance individual research project (defense of student science work 12 points, speech at the conference 5 points, poster presentation at the conference 4 points, abstracts 3 points). The total score in the discipline may not exceed 200 points.

10. Learning resources

10.1 Material and technical support

MTS1	Information and communication systems
MTS2	Library funds, archive of radiographs, cardiocograms, computer tomograms, results of laboratory methods of inspection
MTS3	Computers, computer systems and networks
MTS4	Simulation center (obstetric phantom, phantom of the newborn child for primary resuscitation with a set of equipment)
MTS5	Regional clinical perinatal center, Clinical maternity hospital of the Blessed Virgin Mary , MedSoyuz Medical Center
MTS6	Multimedia, video and sound reproduction, projection equipment (video cameras, projectors, screens, laptops)
MTS7	Програмне забезпечення (для підтримки дистанційного навчання, Інтернет-опитування, віртуальних лабораторій, віртуальних пацієнтів, для створення комп'ютерної графіки, моделювання тощо та ін.)

MTS8	Medical equipment (fetal heart monitor, ultrasound machine, digital mammogram, laryngoscope, pinlon, height meter, scales, centimeter tape, tasometer, tonometer, obstetric stethoscope, colposcope, exercise machine for introduction of the IUD, a set for gynecological examination, cervical brushes, slides, hysteroscope, laparoscopic rack))
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10.2 Information and methodical support

Essential Reading	
1	Obstetrics and gynecology: in two volumes: textbook. Vol.1 : Obstetrics / V. I. Gryshchenko, M. O. Shcherbina, B. M. Ventskiivskiy etc. ; edit. by: V.I. Gryshchenko, M.O. Shcherbina. — 2-nd edition. — K. : AUS Medicine Publishing, 2018. — 392 p
2	Obstetrics and gynecology: in two volumes: textbook. Vol.2 : Gynecology / V. I. Gryshchenko, M. O. Shcherbina, B. M. Ventskiivskiy etc. ; edit. by: V.I. Gryshchenko, M.O. Shcherbina. — 2-nd edition. — K. : AUS Medicine Publishing, 2018. — 352 p
3	Obstetrics/Gynecology: Lecture Notes / Editors W.G. Cvetnic, E. Pino. — New York : Kaplan, 2019. — 291 p.
4	Ostafiichuk, S. O. Lecture notes in obstetrics [Текст] : Ehe manual is designated for the English-speaking students of the 4-6 th courses of medical higher schools. / S. O. Ostafiichuk, N. I. Genyk. - Ivano-Frankivsk, 2016.
5	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
Supplemental Reading	
2	Hacker and Moore's Essentials of Obstetrics and Gynecology [Текст] / N. F. Hacker, J. C. Gambone, C. J. Hobel. — 6th edition. — Philadelphia : Elsevier, 2016. — 497 p
3	Methodical Instructions for practical work on obstetrics (module I;Physiological obstetrics): for foreign students of the specialty 7.110101;Medical Care; of the full-time course of study / B. I. Бойко, М. Л. Кузьомєнська, С. А. Сміян etc. — Суми
4	Gynaecology by Ten Teachers [Текст] / Ed.: A. Monga, S. Dobbs. — 19th edition. —Hodder Arnold, 2011. — 206
5	Obstetrics & gynecology [Текст] : texbook for students of institutions of higher medical education of the III-IV levels of acc.(MPHU). V.1 : Obstetrics / ed. by V.I. Gryshchenko /Gryshchenko V. I., Shcherbina M.O., Kaminskiy V.V., Markin L.V.
6	Obstetrics & gynecology [Текст] : texbook for students of institutions of higher medical education of the III-IV levels of acc.(MPHU). V.2 : Gynecology / ed. by V.I. Gryshchenko. - in two volumes. - K. : AUS Medicine publishing, 2014.
6	Te Linde's Operative Gynecology. Twelfth edition. Victoria L. Handa, Linda Van Li. Hardcover edition. New York. 2019. 339 p.

7	Obstetrics and gynaecology in 2 books [Текст] : підручник. Book 1 : Obstetrics/ V. M. Zaporozhan, V. P. Mishchenko. — Odessa : The Odessa State Medical University, 2013. — 374 с.
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