

ECTS is an informative package

Introduction

A modern progress of medical education in Ukraine is based on technology of organization of educational process in new terms which are based on principles of European credit- transfer system - EUROPEAN CREDIT TRANSFER SYSTEM (ECTS).

The European credit-transfer system (ECTS) is the system, which is created for providing of one intergovernmental procedure of measuring and comparison between the educational establishments the results of students' study of students, their academic recognition.

The system ECTS is based on the estimation of all types of students' work, necessary for aims achievement, marked in the tutorial program, which guarantees providing of students' mobility, simplifies understanding and comparison of tutorial programs and achievements of students between home and foreign educational establishments.

The European credit-transfer system (ECTS) is based on the principle, that the student of a full-time tuition for a year must get 60 credits. Credits in this system can be got only at successful implementation of work, foreseen by a curriculum. The workload of students in the ECTS system consists of attendance of lectures, practical lessons, individual and self study, preparation of own projects (histories of labour and gynaecological diseases), scientific researches, implementation of individual independent work, passing of final module control, exams, etc.

The Credit-module system of organization of educational process (ECTS) foresees publication of informative package from every direction of preparation 11101 «Medicine» Specialty :7.110.101 “Medical speciality” and including the educational discipline “obstetrics and gynecology”

Information package discipline "Obstetrics and Gynecology" is a key element Credit Transfer System (ECTS), its purpose is to promote transparent curriculum to help students in choosing appropriate programs when planning their study abroad in case of contract with higher educational institutions- partners.

Information package of the "Obstetrics and Gynecology" discipline is reference, that gives detailed explanation for the student about the teaching staff, , the methodology of constructing the curriculum and organization of the educational process, curriculum reflects the structure of the program and its components (student records, credits, thematic plans of lectures and practical lessons, independent work and structure of the record credit), system of evaluating the success of study and organization and procedure of state certification of students. Assignment of the information package is to promote transparency in education - programs of Obstetrics and Gynecology, target students to choose relevant topics for self preparation, planning further education courses in Obstetrics and Gynecology and training to master practical skills.

Basic medical preparation of specialist (medical business) from the training course «obstetrics and gynaecology» of state higher educational institution «Uzhgorod national university» foresees teaching in accordance to educational qualification characteristics (EQC) and educational-professional program (EPP) and is determined by the ultimate goal of the education discipline “obstetrics and gynecology” :

- to interpret the clinical anatomy and physiology of female genitalia;
- to plan tactics of conduct the pregnancy, childbirth and postpartum period;
- to put the previous diagnosis of pregnancy complications, childbirth and postpartum period;
- to determine the etiologic and pathogenetic factors of basic diseases of the female reproductive system;
- to plan and assist the first aid at the urgent states in obstetrics and gynecology;
- to execute necessary medical manipulations;
- to determine factors, which influence the family planning and to work out measures, aimed on rational family planning;

Obstetrics and gynecology as an educational discipline :

- it is based on knowledge, the students got during the study of medical biology, normal and pathological anatomy, topographic anatomy, normal and pathological physiology of the female reproductive system, histology and embryology, biochemistry, endocrinology, immunology of reproduction and pharmacology;
- lays the groundwork of the formation of students’ knowledge, abilities and practical skills that are determined by the ultimate goals of EQC and EPP concerning the study of obstetrics and gynecology as an independent discipline and can be used by students for the logical justification of the diagnosis of the disease, to do the differential diagnosis, treatment, prophylaxis and rehabilitation of patients, ability to render a medical help at the urgent states during the work of a general practitioner.

Teaching of discipline comes true in obedience to the «Program of the educational discipline “Obstetrics and gynecology” for the students of higher educational establishments of the III-IV levels of accreditation concerted with the Central methodical cabinet of higher medical education ratified by Ministry of health care of Ukraine in 18.06.2002, that is composed for the specialities “ Medical speciality” 7.110101, the direction of preparation 11101 “Medicine” in accordance with educational-qualifying characteristics (EQC) and educational-professional programs (EPP) for preparation of specialists, ratified by an order of Ministry of education and science of Ukraine from 16.04.03 №239, experimental on principles of the European credit-transfer system (ECTS) ratified by an order of Ministry of health of Ukraine from 31.01.2005 №52.

1. Educational establishment

A. State higher educational institution «Uzhgorod national university» medical faculty.

Department of obstetrics and gynecology.

Address of the department : 88000 m Uzhhorod, Gryboyedov street , 20 б. Uzhhorod municipal perinatal center, telephone (0312) 642213.

B. Academic calendar. Term of studies of the clinical discipline «Obstetrics and gynecology» includes 5 educational semesters (4,5,6 courses).

Organization of the educational process is realized by the credit-module system (ECTS) in accordance with the requirements of Bolonsky process.

The program of clinical discipline «Obstetrics and gynecology» is structured on 4 test credits, 13 topical credits, 49 topics, independent work of students in a volume 200 hours. The students' independent work includes: preparation for the practical lessons, study of the topics which are reviewed easier in aspect of self study, supervision of pregnant and gynecological patients with and protection of the educational case history or labor history, the research and study of the additional literature regarding the current problems of obstetrics and gynecology, writing abstracts, creation of algorithms, structurally-logical charts, annotations, reports for admission with messages on practical exercises, duties in the clinic beyond of the educational process that are provided the teachers of department.

Except on 4-5 courses professional clinical practice is done according to the requirements (EQC) and the individual educational-experimental tasks accordingly to the program.

Duration of winter vacations - 2 weeks, summer - 10 weeks.

C. Co-ordinator **БСТБ** from the department: associate professor of department, candidate of medical sciences, associate professor Malyar Vitaliy Vasulyovich w.t.n. (0312) 642213, it is possible to contact him personally during the work week.

D. Description of department

The department of obstetrics and gynecology was created in 1950 on the base of the Uzhhorod maternity hospital as a part of medical faculty of the Uzhgorod state university. From 2002 the department is a structural subdivision of medical faculty of State higher educational establishment "Uzhgorod national university".

An organizer and first manager of department of obstetrics and gynecology was a Member of the Academy of Medical Sciences of USSR M.S. Baksheyev (in 1950 - 1959).

From 1959 till 1964 the department was managed by professor I.M. Rembez.

From 1964 till 2000 the chief of the department professor M.M. Ganich.

From 2000 till now the department is managed by professor V.A. Malyar.

Staff of scientific - teaching workers :

- Korchinska Oksana Oleksandrivna - doctor of medical sciences, professor;
- Khashcha Ivan Ivanovich - doctor of medical sciences, associate professor;
- Gerazanich Svyatoslav Omelyanovich – doctor of medical sciences;
- Malyar Vitaliy Vasilyovich – candidate of medical sciences, associate professor;
- Tsmur Olga Vasilivna – candidate of medical sciences, associate professor;
- Malyar Volodimir Vasilyovich – candidate of medical sciences.
- Lemish Nataliya Yuriivna

Fourth level of accreditation.

E. Description of individual divisions of tutorial from discipline «Obstetrics and gynecology».

2.1. Authentication. The program from obstetrics and gynecology for higher medical establishments of Ukraine of III-IV levels of accreditation is made for «Medical speciality» 7.110101 the direction of preparation 1101 «Medicine» in accordance with educationally-qualifying characteristics (EQC) and educationally-professional programs (EPP) of preparation of specialists, ratified by an order of Ministry of Health Care (MHC) of Ukraine from 16.04.03 №239, experimental curriculum, worked out on the principles of the European credit-transfer system (ECTS) and a ratified order of MHC of Ukraine from 31.01.2005, №52. «About making changes to the curriculum of preparation of specialists of educationally-qualifying level “specialist” of qualification “doctor” in higher educational establishments of III-IV levels of accreditation of Ukraine», a ratified order of MHC of Ukraine from 31.01.05 № 52, by recommendations in relation to the development of the educational programs of educational disciplines, ratified by an order of MHC of Ukraine from 24.03.04 №152 «About ratifying the recommendations about the development of educational programs, educational disciplines» with changes and additions, ratified by an order of MHC of Ukraine from 12.10.04 № 492 « About changes and additions to recommendations in the development of educational programs, educational disciplines»; by the order of MHC of Ukraine from 31.01.03 № 3 148 « About the measures of realization of positions of Bolonsky declaration in the system of higher medical and pharmaceutical education »; by instruction about the system of evaluation of educational work of students on conditions of the credit-module system of organization of educational process (Medical education in the world and in Ukraine. Ratified by MHC of Ukraine as educational textbook for teachers, master's degrees, graduate students, students. Kyiv Book plus.2005). «About the ratification and introduction of a new curriculum of preparation of specialists of educationally-qualifying level “Specialist” of qualification “Doctor” in higher educational establishments of III-IV levels of accreditation of Ukraine of speciality “Medical Speciality””; by the order of MHC of Ukraine from 17.05.06. №281, and by the order of MHC of Ukraine from 21.06.2012 № 455 “About the ratification of curriculum of preparation of specialists of educationally-qualifying level «specialist» of qualification «doctor» after speciality «medical speciality», which preliminary got the educationally-qualifying level of junior specialist after speciality «medical speciality» and «nurse speciality», for study in higher educational establishments of IV of level of accreditation of MHC of Ukraine.

2.2. Description of structurizing the educational discipline.

In accordance with the requirements of «Recommendations about the programs of educational disciplines (by the order of MHC of Ukraine from 12.10.2004, №492) program for educational clinical

discipline “Obstetrics and gynecology” structured on the modules, content modules in accordance to the curriculum for discipline “Obstetrics and gynecology” for the students of medical faculties, which study after speciality 7.110101 “Medical speciality”, volume of hours / credits (ECTS) of is 450/15, including the number audience hours 250 and for independent preparation of students 200.

2.3. Structurizing the educational discipline in modules and thematiccc modules.

2.4.

Module 1. «**Physiological pregnancy, childbirth and the postpartum period**» is studied on the 4th course a semester of study). The plan includes 20 hours of lectures, 40 for practical lessons, 30 for independent work of students.

Thematic module 1. Physiological pregnancy, childbirth and postpartum period.

Thematic module 2. Perinatology. Risk factors of perinatal period.

Module 2. «**Pathological pregnancy, childbirth and postpartum period**» is studied on V course (IX semester of study). The plan includes 10 lecture hours, 30 on practical lessons, 20 for independent work of students.

Thematic module 3. Pathological pregnancy, childbirth and postpartum period.

Module 3. «**Diseases of female reproductive system. Family planning**» is studied on the V course (X semester of study).The plan includes 20 lecture hours, 40 for practical classes, 25 for independent work of students. The structure includes the 4th, 5th and 6th thematic modules.

Thematic module 4. Endocrine disruptions of the female reproductive system.

Thematic module 5. Bases of oncogynecology.

Thematic module 6. Inflammatory diseases of the female reproductive organs and gynecological diseases that require urgent gynecological help.

Thematic module 7. Infertility. Family planning.

Module 4. «**Obstetrics and gynecology**» are studied on VI course (XI XII semester of studies). The plan includes 100 hours for practical lessons, 1155 for independent work of students. The structure of the module includes 9th, 10th, 11th, 12th and 13th thematic modules.

Thematic module 8. Physiological obstetrics.

Thematic module 9. Pathology of pregnancy and postpartum period.

Thematic module 10. Perinatal pathology.

Thematic module 11. Physiology of the female reproductive system depending on the age, methods of gynecological investigation.

Thematic module 12. Gynecological diseases.

Thematic module 13. Infertility. Family planning.

2.5. Table of contents of the program.

Module 1. «Physiological pregnancy, childbirth and postpartum period»

Thematic module 1. Physiological pregnancy, childbirth and postpartum period.

Topic 1. Organization of obstetric care.

Subject of Obstetrics and Gynaecology Basic Development Stages of obstetrics and gynecology. The role of the family physician in the prevention of perinatal disease and mortality. Theme 2. Woman pelvis. Fruit, as an object of luing-ins.

Theme 2. Female pelvis. Fetus as an object of birth.

The structure of the female pelvis. Pelvis from the obstetric point of view. Perineum. Ultrasound pelviometry. The structure of the fetal head. The sizes of the fetal head and other measurements.

Theme 3. Physiology of pregnancy. Perinatal guarding of the fetus. Methods examination of pregnant women. Obstetric terminology.

The structure of germ cells. Fertilization and development of the fertilized egg. Capacitation – a cellular factor of fertilization. Placentation. Organogenesis. The development of membranes. Amniotic fluid. The placenta and its structure and function. Critical periods of development of the embryo and fetus. The effects of environmental hazards on the embryo and fetus. Physiological changes in women during pregnancy. Hygiene and diet food of the pregnant. Methods of investigation of the pregnant. Early diagnosis of pregnancy. External and internal midwifery research of the pregnant. Obstetric terminology. Determination of the life and death of the fetus. Determination of prenatal leave and the date of labour. Perinatology as a scientific field in obstetrics.

Topic 4: Physiology of childbirth. Pain Management of the delivery.

The reasons for the onset of labor. Regulation of labor. Precursors of childbirth, preliminary period. Biological readiness of body for childbirth. Maternity force changes in the uterus. Biomechanism of delivery at the front and rear types of occipital presentation. The clinical course of delivery. Labor management. Obstetric care and monitoring of the woman and fetus during labor. Pain Management of the delivery.

Topic 5. Physiology postpartum period. Physiology neonatal period.

Clinics of postpartum period. Changes in the body mothers, female genitalia, mammary glands. Health care of postpartum woman. Therapeutic exercises. Hygiene of postpartum woman. Prevention and treatment of hypogalactia.

Anatomical and physiological characteristics of the neonatal period. Care, feeding of the infants. Organization of departments of newborns.

Medical ethics and deontology of a doctor

Thematic module 2. Perinatology. Risk factors for perinatal period.

Topic 6. Pregnancy and childbirth in breech presentation.

Pregnancy and birth in case of pelvis abnormalities. Problems of macrosomia in obstetrics, pregnancy and childbirth in case of big fetus.

Classification breech presentation. Pregnancy and childbirth in the breech presentation. Diagnosis and the course of pregnancy in breech presentation. Biomechanism of labor in breech presentation. Management of labor in breech presentation. A narrow pelvis. Classification of the narrow pelvis. Diagnosis of the narrow pelvis. Peculiarities of pregnancy and childbirth with a narrow pelvis. Biomechanism of labor in various forms of the narrowing of the pelvis. Management of labor with a narrow pelvis.

The etiology. Methods of diagnosis. Peculiarities of labor in case of big fetus. The course of the neonatal period in case of macrosomia.

Topic 7. Abnormalities of a fertilized egg. Multiple pregnancy. Abnormalities position the fetus.

Abnormalities beyond rudimentary elements of a fertilized egg, the placenta, of membranes and umbilical cord. Trophoblastic disease. Polyhydramnios and oligohydramnios. Polyhydramnios: causes, clinical features, tactics of pregnancy, the consequences for the fetus and newborn.

The course of pregnancy in polyhydramnios. Peculiarities of labor and in multiple pregnancies.

Abnormalities of fetal position malposition and means of correction during pregnancy. Peculiarities of pregnancy and delivery, management of labor in malposition. Front and rear asynklityzm. Extensor cephalic presentation head. High straight and low transverse standing of the sagittal suture of the fetus. The course and of labor.

Theme 8. Methods of diagnosis of the state of fetus. Placental insufficiency. Fetal hypoxia (acute, chronic). Retardation, fetal malnutrition.

Methods of diagnosis of the state of fetus. Hereditary and congenital diseases of the fetus. Diagnosis, prevention. Chorionic villi sampling, cordocentesis ultrasound, ECG, FCG, amnioscopy, cytogenetic and biochemical methods of investigation of the fetus at different periods of pregnancy, CTG. Fetal biophysical profile and other methods of investigation of fetoplacental complex. The role of medical and genetic counseling.

The etiology and pathogenesis of placental insufficiency, retardation, malnutrition, fetal hypoxia and asphyxia newborn. Methods of diagnosis of placental insufficiency. Treatment of placental insufficiency. Fetal hypoxia (acute, chronic). Retardation, fetal malnutrition.

Theme 9. Isoantigen blood incompatibility of mother and fetus. Pathology neonatal period. Asphyxia of the newborn. Toxic and septic diseases of newborns. Methods of intensive care and neonatal intensive care unit.

Immunological incompatibility of blood between mother and fetus (Rh conflict, incompatibility of the ABO system, isoleukocitar etc.). Pathogenesis, modern diagnosis and treatment. Pathology neonatal period. Asphyxia of the newborn. Methods of intensive care and neonatal resuscitation, born in asphyxia. Toxic and septic diseases of newborns. Etiology, symptoms, diagnosis, prevention. Events during outbreaks of toxic and septic diseases in the hospital. Diagnosis of development. Supervision and treatment of the newborn, who suffered asphyxia, trauma imunokonflikt.

Theme 10. Pharmacotherapy in obstetrics. The issue of medical ethics and deontology. Pharmacokinetics and pharmacodynamics of drugs.

Pharmacotherapy in obstetrics. The issue of medical ethics and deontology. Pharmacokinetics and pharmacodynamics of drugs. Medical ethics and deontology doctor.

Theme 11. Implementation of individual self-study: curation pregnancy and childbirth, preparing educational history. Protecting the educational history of childbirth.

Self examination of pregnant women, women during labor and postpartum women under the supervision of a teacher.

Participation in the labor. Working with the medical records. Protecting the educational history of childbirth.

The final module control

Module 2. "Pathological course of pregnancy, childbirth and the postpartum period" Thematic module 3. Pathological the course of pregnancy, childbirth and the postpartum period

Topic 12. Early gestosis. Hypertensive disorders in pregnancy. Preeclampsia. Eclampsia.

Modern understanding of the etiology and pathogenesis of gestosis. Early preeclampsia. Hypersalivation. Vomiting. Symptoms, diagnosis and treatment of early gestosis. Classification of gestosis. Clinic and diagnosis of gestosis. Modern methods of treatment of gestosis. The role of maternity consulting centres in the prevention of preeclampsia. Rare forms of gestosis.

Topic 13. Miscarriage.

Causes of spontaneous abortion in different periods of pregnancy. Classification, clinical manifestations, diagnosis, treatment and prevention of spontaneous abortion. Premature birth. The course of preterm labor, peculiarities of management. Prevention of miscarriages.

Topic 14. Prolongation of pregnancy. Abnormalities of uterine contractile activity.

Prolongation of pregnancy. Abnormalities of uterine contractile activity. The etiology. Pathogenesis. Methods of diagnosis of prolongation of pregnancy. Prevention and treatment of complications associated with prolonged pregnancy. Integrated medical treatment of prolongation of pregnancy.

Classification, etiology pathogenesis of various types of anomalies of labor. Modern methods of diagnosis and treatment of disorders of labor. Prevention of labor abnormalities.

Topic 15. Pregnancy and childbirth in case of extragenital diseases.

Pregnancy and childbirth in case of extragenital diseases. Diseases of the cardiovascular system (heart defects, hypertension, arterial hypertension). Diseases of the blood. Endocrine diseases. Diseases of the urinary excretory system. Diseases of the respiratory system. Digestive diseases. Infections. Pregnancy in case of malformations of development of female reproductive eorgans. TORCH infection during pregnancy, clinical course, diagnosis, treatment and prevention.

Topic 16. Obstetric bleeding during the first trimester of pregnancy. Ectopic pregnancy. Obstetric hemorrhage during the second half of pregnancy, childbirth and the postpartum period. Intensive care and resuscitation in case of bleeding in obstetrics.

Obstetric hemorrhage. Ectopic pregnancy. Placenta previa. Etiology pathogenesis, classification, clinical features, diagnosis. Peculiarities of management of pregnancy and labor. Couvelaire uterus. Uterine bleeding in the period of placenta delivery and early postpartum period. Disruptions of the placenta detachment process. Hypotonic bleeding. Coagulopathic bleeding (embolism by the amniotic fluid and others). Shock, terminal states in obstetrics. The syndrome of disseminated intra - vascular coagulation. Intensive care and resuscitation in case of bleeding in obstetrics. Etiology, classification, diagnosis, clinical features, treatment of ectopic pregnancy. The role of endoscopic diagnosis and treatment of ectopic tubal pregnancy. Prevention. Postoperative rehabilitation. Pregnancy in rudimentary uterine horn. Cervical pregnancy.

Topic 17. Postoperative obstetrics. Maternity trauma.

General information about surgery in obsetrics. Indications. Conditions. Contraindications. Preparation. Anesthesia of the operations. Toolkit. Asepsis and antisepsis. Postoperative care.

Operations of abortion in early and later gestational terms. Operations to prepare birth canal (peryneo- and episiotomy, opening the cervix, amniotomy). Classic twist of fetal stem. Obstetric surgery in cases of breech presentation (extract fetal leg or legs). Obstetrical forceps. Vacuum extraction of the fetus. Cesarean section. Safety options of cesarean section. Surgeries in the period of placenta delivery and

postpartum period. Manual separation of the placenta, afterbirth. Manual and instrumental examination of the uterus after delivery. Supravaginal amputation, hysterectomy. Ligation of a. iliaca interna. Fetal destructive operations.

Traumatic injuries of the vulva, vagina, perineum. Cervix rupture. Uterine rupture. The etiology. Theory of uterine rupture. Mechanism. Classification. Features for uterine rupture by the postoperative scar. Evaluation of the uterus. The clinical picture of uterine rupture, threatening, beginning and that already happened. Diagnosis. Treatment and prevention. Inversion of the uterus. Sacroiliac joint dysfunction. Postpartum fistula. The etiology. Treatment and prevention. Fetal trauma.

Topic 18. Postpartum septic diseases.

Classification. Etiology and pathogenesis. Diagnosis. Modern principles of treatment and prevention. Lactational mastitis clinic, modern therapy. Methods of lactation suppression.

Students' individual work.

Final module control.

Module 3. «***Female reproductive organs diseases. Family planning***».

Thematic module 4. Endocrine disruptions of the female reproductive system.

Topic 19. Clinical anatomy and physiology of female reproductive organs. Methods of gynecological investigation.

External genitalia. Vagina. Uterus and its parts. Uterus function. Ovaries and their function. Suspensory ligaments of the uterus. Blood supply and the lymphatic system. Physiological changes in the female reproductive organs at different ages. Modern knowledge about the menstrual function. Neuroendocrinologic regulation of the female reproductive system function. Role of the hormones and biologically active substances.

General and special methods of gynecological investigation: bimanual, vaginal, rectal, speculum. Peculiarities of gynecological history taking. Methods of diagnosing the functional state of the ovaries. Biopsy. Punction of the posterior fornix. Endoscopic methods of investigation. Colposcopy, hysteroscopy, cystoscopy, laparoscopy. Laboratory diagnostics.

Topic 20. Disturbances of menstrual function. Neuroendocrine syndromes in gynecology.

Classification of the menstrual function disturbances. Amenorrhea. Ovulatory and non-ovulatory dysfunctional uterine bleedings. Algodysmenorrhea. Neuroendocrine syndromes in gynecology. Modern methods of treatment, the role of endoscopic methods in diagnosis and treatment.

Topic 21. Endometriosis. Gynecological diseases of children and teens. Abnormalities of female genitalia position and development.

Etiology and pathogenesis. Classification. Diagnosis. Symptoms. Modern methods of treatment. Medical rehabilitation of women with endomenriosis.

Gynecological diseases of children and teens. Peculiarities of symptomatic, diagnostics and treatment of the most widespread types of gynecological pathology of young girls and teens. Hyperanteflexion, retrodeviation of the uterus. Treatment, prophylaxes. Development defects of the reproductive organs. Infantilism, impaired sexual development, gonadal dysgenesis.

Thematic module 5. Basis of oncogynecology.

Topic 22. Benign diseases of female reproductive organs. Gynecological aspects of mammary glands diseases

Benign diseases of female reproductive organs. Benign diseases of the ovaries: epithelial, sex cord stromal tumors, germ cell and lipid cell tumors. The concept of cysts and cystomas.

Benign diseases of the uterus. Uterus fibroid. Symptoms, diagnosis and treatment.

Topic 23. Background and premalignant diseases of female reproductive organs. Malignant neoplasms. Trophoblastic disease.

Background and premalignant diseases of external female reproductive organs. Background and premalignant diseases of the cervix: erosion, polyps, ectropion, endocervicitis. Dysplastic disease of the cervix. Hyperplasia of the endometrium. Modern methods of diagnostics and treatment.

Malignant neoplasms of the external female reproductive organs. Cancer. Cervix cancer. Uterus cancer. Ovarian cancer. Cancer of the fallopian tubes. Sarcoma of the uterus. Classification, symptoms, diagnosis and treatment.

Trophoblastic disease. Diagnosis and treatment. Gynecological aspects of the mammary glands diseases.

Thematic module 6. Inflammatory diseases of female reproductive organs and gynecological diseases that require urgent medical help.

Topic 24. Inflammatory disorders of female reproductive organs

Etiology, pathogenesis, classification. Peculiarities in different age groups. Inflammatory diseases of unspecific etiology (vulvitis, vaginitis, endocervicitis, endometritis, adnexitis, pelvioperitonitis, parametritis), of specific etiology (tuberculosis). Sexually transmitted infections (trichomoniasis, gonorrhea, candidosis, viral lesions, ureaplasmosis, Chlamydia). Diagnosis, treatment and prevention of bacterial vaginosis. Management of patients with tuboovarian abscesses. Features of acute and chronic inflammation diseases of the female genitalia. Indications for surgical treatment of inflammatory processes. Rehabilitation of women who have had inflammation.

Topic 25. Acute abdomen in gynecology

Ectopic pregnancy, ovarian apoplexy, ovarian tumor capsule rupture, torsion of the tumor, tuboovarian abscess, malnutrition of the fibroid node. First aid.

Traumatic injuries of the reproductive organs. Differential diagnosis of gynecological emergency conditions with acute surgical pathology (appendicitis, intestinal obstruction, cholecystitis, renal colic, perforated ulcers of the stomach). Preoperative preparation and postoperative management of gynecological patients. Anesthesia during gynecological operations. Endoscopic treatment of pathology of the uterus, infertility, fibroids, endometriosis and other gynecological pathology.

Thematic module 7.

Topic 26. Infertility. Family planning.

Causes of male and female infertility. Examination of a couple with infertility in marriage. Modern principles and methods of treatment of female infertility. Hormonal treatment of infertility. Insemination by the donor sperm. In vitro fertilization and other advanced reproductive technologies. Surgical treatment.

Organization, structure and objectives of family planning services. Modern aspects of contraception. Classification. Mechanism of action and effectiveness of modern contraceptives.

Topic 27. Seeing a patient, history taking, exam on the educational history.

Total modular control III.

Module 4: "Obstetrics and Gynecology."

Thematic module 8. Physiological obstetrics.

Topic 28. Physiological course of pregnancy, childbirth, postpartum period. Perinatal health of the fetus. Pharmacotherapy in obstetrics. Questions of medical deontology and ethics.

Physiological course of pregnancy. Perinatal health of the fetus.

Modern diagnostic and therapeutic measures of perinatal care. Pharmacotherapy in obstetrics. Questions medical deontology and ethics. Pharmacokinetics and pharmacodynamics of drugs. Peculiarities of pharmacotherapy in different gestational terms of pregnancy and of the postpartum period. Medical ethics and deontology of the doctor.

Thematic module 9. Pathological course of pregnancy and childbirth.

Topic 29. Early gestosis. Hypertensive disorders in pregnancy. Preeclampsia. Eclampsia. Indications, contraindications, specifications and technical features of surgical operations in obstetrics.

Modern understanding of the etiology and pathogenesis of gestosis. Early preeclampsia. Hypersalivation. Vomiting. Symptoms, diagnosis and treatment of early gestosis. Hypertension in pregnancy. Edema during pregnancy. Proteinuria during pregnancy. Preeclampsia. Eclampsia. Symptoms, diagnosis, treatment, fetus state, prophylaxis. Correction of hypertension during delivery. The role of maternity consulting centres in the prevention of preeclampsia. Rare forms of gestosis. HELLP-syndrome.

The main stages of obstetric operations. Indications. Conditions. Contraindications. Surgical instruments. Anesthesia of the operations. Asepsis and antisepsis. Postoperative care.

Topic 30. Multiple pregnancy. Premature termination of pregnancy. Prolongation of pregnancy.

Multiple pregnancy. Premature termination of pregnancy.

Etiology and modern diagnostic possibilities in the diagnosis of multiple pregnancy. Clinical management of pregnancy and delivery in multiple pregnancy. Feto-fetal syndrome.

Etiology and pathogenesis of premature termination of pregnancy in different gestational terms. Classification, clinical manifestations, diagnosis, treatment and prevention of spontaneous abortion. Premature birth. Features of preterm birth. Prevention incomplete pregnancy.

Prolongation of pregnancy. Abnormal uterine contractile activity. The etiology. Pathogenesis. Pregnancy and childbirth in prolongation of pregnancy. Effect of prolongation of pregnancy on the fetus. Methods of diagnosis prolongation of pregnancy.

Prevention and treatment of complications associated with prolongation. Prolonged pregnancy. Comprehensive treatment of post-term pregnancy.

Topic 31. Obstructed labor. The problem of macrosomia in modern obstetrics. Malposition.

Obstructed labor. The problem of macrosomia in modern obstetrics. Malposition.

Pregnancy and childbirth in the breechpresentation. Abnormalities of the pelvis. Childbirth in case of big fetus. Peculiarities of labor with big fetus. The course the neonatal period in case of macrosomia. Management of labor in case of narrow pelvis. Malpositions. The etiology. Methods of diagnosis. Peculiarities of obstetric tactics concerning delivery.

Topic 32. Bleeding during pregnancy, childbirth and the postpartum period. Hemorrhagic shock. DIC - syndrome. Terminal states in obstetrics.

Bleeding during pregnancy, childbirth and postpartum period. Etiology and pathogenesis. Clinic. Diagnosis. Algorithm of management. Means of treatment. Hemorrhagic shock. DIC - syndrome. Terminal states in obstetrics. Modern approaches to infusion - transfusion therapy and resuscitation intensive care in case of bleeding in obstetrics.

Topic 33. Abnormalities of contractile activity of the uterus. Birth injuries of the mother and fetus. Current approaches to diagnosis and treatment of birth injuries of the mother and fetus.

Classification. The etiology and pathogenesis of different types of anomalies of contractile activity. Modern methods of diagnosis and treatment of disruptions of contractile activity. Prophylaxis.

Birth injuries of mother and fetus. Current approaches to diagnosis and treatment of birth injuries of mother and fetus.

Theme 34. Pregnancy and labour in case of extragenital diseases.

Pregnancy and childbirth at extragenital diseases. Cardio vascular system diseases (heart defects, hypertension, arterial hypertension), diseases of blood-forming organs of the pregnant, respiratory diseases, diseases of the digestive system, diseases of the liver and gall bladder, diseases of the endocrine system,

diseases of the urinary tract, diseases of the nervous system, acute and chronic infectious diseases, pregnancy and childbirth in case of gynecological diseases. Pregnancy in case of abnormalities of female genitalia development. TORCH - infection in pregnant women, clinical course, diagnosis, treatment and prevention. Principles of management of pregnancy, childbirth in case of increased risk of perinatal pathology (TORCH - infection). Pregnancy and CNS diseases, myasthenia gravis; myopia.

Topic 35. Postpartum septic diseases.

Postpartum septic disease. Classification, etiology, pathogenesis, diagnosis, treatment, prevention. Laser irradiation of blood, ozone, hemosorption, plasmapheresis, draining the uterus cavity, the indications for surgical treatment.

Thematic module 10. Perinatal pathology.

Topic 36. Placental dysfunction, growth retardation. Pathology of neonatal period. Methods of intensive care and neonatal intensive care unit.

Placental dysfunction, growth retardation.

Etiology, pathogenesis placental dysfunction, fetal distress, fetal growth retardation and neonatal asphyxia. Current prenatal diagnostic technologies. Current treatments for adverse fetal condition.

Pathology of neonatal period. Methods of therapy, intensive resuscitation of the newborn born in asphyxia. Toxic septic diseases of newborns. Etiology, clinical diagnostics, prevention. Measures during the episode of toxic septic diseases in the maternity hospital. Diagnosis of development. Observation and treatment of the newborn, who suffered from asphyxia, trauma.

Topic 37. Immunological incompatibility between the blood of mother and fetus. Abnormal development of a fertilized egg.

Immunological incompatibility of blood between mother and fetus (Rh conflict, incompatibility by the ABO system, isoleukocytar et al.). Pathogenesis, modern diagnosis and treatment. Prenatal care, the choice of the optimal period for delivery, management of labor and the postpartum period in case of immunological conflict. Hemolytic disease of the newborn. Diagnosis and treatment methods postnatal treatment.

Abnormal development of a fertilized egg.

Anomalies of beyond germinal elements of the fertilized egg (placenta, membranes and umbilical cord). Trophoblastic diseases. Polyhydramnios and oligohydramnios. Polyhydramnios: causes, clinical features, tactics of pregnancy, the consequences for the fetus and newborn.

Thematic module 11. Physiology of the female reproductive system depending on the age, methods of diagnostics of gynecological patients.

Topic 38. Clinical and physiological changes in the female genital organs at different age periods. Neuroendocrine regulation of the function of female reproductive system.

Clinical peculiarities of the anatomical structure of the female genitalia. Physiological changes in female genitalia at different age periods. Current knowledge about menstrual function.

Topic 39. Methods of examination of gynecological patients.

Modern methods of examination of gynecological patients. The issue of laboratory diagnostics.

Thematic module 12. Gynecological Diseases.

Topic 40. Female urogenital inflammatory diseases. Diagnosis, treatment and prevention.

Female urogenital inflammatory diseases. Current approaches to diagnosis and treatment.

Diagnosis, treatment and prevention of sexually transmitted diseases. Modern principles of treatment of acute and chronic inflammation diseases of the female genitalia.

Topic 41. Disturbances of menstrual function at different age periods, neuroendocrine syndromes in gynecology.

The problem of menstrual dysfunction in different age periods. Modern methods of diagnosis and treatment.

The issue of Gynecological Endocrinology, neuroendocrine syndromes in gynecology, modern methods of diagnosis and treatment.

Topic 42. Endometriosis. Methods of diagnosis, treatment and prevention of endometriosis. The correct position, traumatic injury and congenital abnormalities of the female reproductive organs.

The problem of endometriosis. Modern etiopathogenetical views, methods of diagnosis, treatment and prevention of endometriosis.

Incorrect position, traumatic injury of genitalia and congenital abnormalities of the female reproductive organs.

Topic 43. Pathological conditions of the reproductive system in childhood and teens.

The problem of pathological conditions of the reproductive system in childhood and teens.

Topic 44. Benign neoplasm of female genitalia. Diagnosis, treatment and prevention. Gynecological aspects of breast cancer.

Benign diseases of female genitalia. Gynecological aspects of breast cancer. Modern methods of diagnosis, treatment and prevention.

Topic 45 .Precancerous and background diseases of female genitalia. Malignant neoplasms and trophoblastic disease. Diagnosis, treatment and prevention.

Precancerous and background diseases of female genitalia. Malignant neoplasm of female genitalia. Trophoblastic disease. Modern methods of diagnosis, treatment and prevention.

Topic 46. "Acute abdomen" in gynecology. Diagnosis, differential diagnosis, treatment and prevention of emergency conditions in gynecology, basic principles and methods of surgery.

"Acute abdomen" in gynecology. Current approaches to diagnosis, differential diagnosis, treatment and prevention of emergency conditions in gynecology.

Problem of urgent gynecological help, basic methods and principles of surgery in gynecology.

Topic 47. Indications, contraindications, conditions and technical features of operations on female genitalia. Therapeutic and diagnostic endoscopic treatment in gynecology. Preparation and postoperative management of patients with gynecologic urgent and planned surgery. Principles and methods of anesthesiology and resuscitation during gynecological operations.

Indications, contraindications, conditions and technical features of the operations on the uterus (conservative myomectomy, uterine defundation, supravaginal amputation of the uterus, hysterectomy), cervix, uterus, prolapse and descending of the female genitalia. Diagnostical-therapeutic endoscopic methods of treatment in gynecology. Peculiarities of preparation and postoperative management of gynecological patients in case of urgent and planned surgery. Principles and methods of anesthesiology and resuscitation during gynecological operations.

Thematic module 13. Infertility. Family planning.

Topic 48. Medical and social significance of infertility problems in marriage. Etiopathogenetical factors of infertility. Survey of couple with infertility in marriage. Modern principles and methods of treatment of female infertility. Assisted reproductive technologies.

Topic 49. The organization, structure and objectives of family planning services. Modern aspects of contraception. Classification, mechanism of action and effectiveness of modern contraceptives.

A. Normative legal acts

- 1. An order of MHC of Ukraine № 620 from 29.12.2003r. "On the organization of inpatient obstetric gynecological and neonatal care in Ukraine. "*
- 2. An order of MHC of Ukraine № 503 from 28.12.2002r. "On Improving the outpatient obstetric gynecological care in Ukraine. "*
- 3. An order of MHC of Ukraine № 582 from 15.12.2003r. "On approval of clinical protocols concerning obstetrical and gynecological care" .*
- 4. Order of MHC of Ukraine № 676 from 31.12.2004. "On approval of clinical protocols of obstetrical and gynecological care" .*
- 5. Order of MHC of Ukraine № 782 from 29.12.2005r. "On approval of clinical protocols of obstetrical and gynecological care. "*
- 6. An order of MHC of Ukraine № 59 from 10.02.2003r. "On Improving the prevention measures of nosocomial infections in hospitals (obstetric care). "*
- 7. An order of MHC of Ukraine № 111 from 28.06.1994r. "On approval of instructions on the procedure of the abortion and the procedure of abortion by vacuum aspirational method. "*
- 8. An order of MOH Ukraine № 641/84 from 31.12.2003r. "On improvement of medical and genetic assistance in Ukraine ".*
- 9. An order of MHC of Ukraine № 194 from 6.05.2003r. "On Approval of the program of "Primary neonatal resuscitation for 2003-2006 "."*
- 10 An order of MHC of Ukraine № 539 from 4.08.2006r. "On the organization of family planning services and reproductive health in Ukraine."*
- 11. An order of MHC of Ukraine № 584 from 29.08.2006r. "On approval of the Protocol of a low birth weight newborn baby care."*
- 12. An order of MHC of Ukraine № 899 from 27.12.2006r. "On approval of the clinical protocol of obstetrical and gynecological help "Breech presentation of the fetus. "*
- 13. An order of MHC of Ukraine № 900 from 27.12.2006r. "Fetal distress during pregnancy and during labor."*

14. An order of MHC of Ukraine № 901 from 27.12.2006r. "On approval of the clinical protocol of obstetrical and gynecological help "Post-term delivery. "

15. An order of MHC of Ukraine № 906 from 27.12.2006r. "On approval of the clinical protocol of obstetrical and gynecological help " Perinatal infection. "

B. Bases literature

1. *Obstetrics: a textbook* / BM Ventskiivskyy, IB Ventskiivska, DO Dobranskiiv etc .: eds. prof. BM Ventskiivskoho Sci. GK Stepankiivskoyi Sci. ME Yarotskiiv. - K .: NE "Medicine", 2012. - 648 p.

2. *Obstetrics: a textbook* / GK Stepankiivska, OT Mihaylenko. - K: "Health", 2012. - 920 p.

3. *Obstetrics: textbook* / col. authors eds. Acad. NAS of Ukraine V. H.Hruschenka, professor M.O. Shcherbin. - K .: Medicine, 2009. - 409 p.

4. *Gynecology: Textbook* / NP Bodnarenko, OA Burka, IB Ventskiivska etc .: eds. prof. BM Ventskiivskoho Sci. GK Stepankiivskoyi, VP Lakatos - K .: "Medicine", 2012. - 352 p.

5. V.M. Zaporozhan, MR Tsihelskiiv gynecological pathology: Atlas: tutorial - Odessa; Odes. state. medical university, 2002 - 308 p.

6. V. M. Zaporozhan, Mishchenko VP *Obstetrics and Gynecology: gathering. test. tasks Clinic. rysun .: teach. guide.* - Odessa: Odessa. state. honey. University, 2008 - 176 p.

7. V.M. Zaporozhan, Mishchenko V.P. *Obstetrics pathology: Atlas: tutorial.* - Odessa: Odessa. state. medical university, 2005 - 293 p.

8. *Urgent states in gynecology: Textbook* / Under. GENERAL ed. A.N. Haystruka - Vinnitsa. 2009 - 576 p.

9. *Physiological Obstetrics (informative module 1)* / BM Ventskiivskyy, VV Kaminskiiv VV Grishchenko and others. K .: "The Seagull Universe" - 2008 - 112 p.

10. *Pathological pregnancy, childbirth and postpartum period (thematical credite - Module 2* / Compiled by V.V. Malyar, edited by Prof. V.A. Malyar. Uzhgorod "Goverla" - 2010 - 145 p.

11. *Diseases of the female reproductive system. Family planning* / Authors: V.V.Malyar, Vol. V.Malyar, edited by. prof. V.A. Malyar. Uzhgorod "Goverla" - 2011 - 192 p.

12. O.O. Korchynska, V.A. Malyar, S.O.Herzanych. *Benign neoplasm of female genital organs. Diagnosis, treatment and prevention. Gynecological aspects of mammary glands diseases* / ed. prof. V.A.Malyar. Uzhgorod, 2012. - "Goverla" - P. 18.

13. V.V. Malyar, S.O. Herzanych. *Early toxicosis. Hypertensive disorders in pregnancy. Preeclampsia. Eclampsia. Indications, contraindications, specifications and technical features of surgeries in obstetrics* / ed. prof. V.A.Malyar. Uzhgorod, 2012. - "Goverla" - P. 27.

14. *Organisation of medical care of the newborn babies in the maternity care hospital, children's hospital and the family style medical station.* Uzhgorod "Invazir" 2012 - S. 40 (et al. Assoc.professor Malyar V.V.).

15. V.A. Malyar. *Teaching materials on obstetrics and gynecology for the state practically - oriented final exam.* Uzhgorod "Goverla". 2012 - S. 50.

V. Additional references

1. *Obstetrics: Textbook / G.M. Savel'eva, VI Kulakov, A.N. Strizhakov and oth.: under. ed. G.M. Savelevoy. - M.: Medicine, 2000. - 816 p.*
2. *Obstetrics: national guidance / under. ed. E.K. Ailamazyan, V.I. Kulakov, V.E. Radzinsky, G.M. Savelevoy. - M.: HЭOTAP - Media. 2011.- 1200 s.*
3. *Y. V.Bohman Guide to oncogynecology. - M.: Medicine, 1989. - 464s.*
4. *Zazerskaya I.V., Karpov O.I., A.I. Tanakov and co-author. Directory of an obstetrician - gynecologist. - SPb., 1998.*
5. *Zaporozhan V.M. Tsehelskyi M.R. Obstetrics and gynecology: a manual for interns in higher medical institutions of III – Ivth levels of accreditation. - K.: Health, 1996. - 240p.*
6. *Zilber A.P., E.M. Shifman Obstetrics from the anesthesiological poin of view. - Petrozavodsk: Izd Petrozavod. University Press. - 362s.*
7. *Kyryuschenkov A.P. Influence of hazardous factors on the fetus. - M., 1978.*
8. *Kravchenko O.V. et al. Pregnancy miscarriage / Educational –methodological tutorial. - Chernivtsi, 1998.*
9. *Mihaylenko O.T., Byublick- DornyakG.M. Situational tasks in obstetrics. - K.: High School, 1987.*
10. *Gynecology ed. V.I. Gryshchenko -Harkiv, 1996. Osnova-728s.*
11. *Urgent states in obstetrics and gynecology/ Galina Konstantynovna Stspankovskaya (ed.). - K.: Zdorovya, 2000. - 672s.*
12. *Zaporozhan V.M. Tsshslskyy M.R., N.M. Rozhkovska Obstetrics and Gynecology. Tutorial: 2 vols. T. 1. - Odesa.Odes.derzh.med.un-ty, 2005-472s.*
13. *Zaporozhan V.M. Tsshslskyy M.R., N.M. Rozhkovska Obstetrics and Gynecology. Tutorial: 2 vols. V.1. - Odesa.Odes.derzh.med.un-ty, 2005-420s.*
14. *Grishchenko V.I. and co-author. Pregnancy and childbirth The course of pregnancy and delivery in case of extragenital diseases.- Kharkov, 1992, -190s.*
15. *Grishchenko V.I., Scherbyna I.A., H'uz S.V. Perinatal hypoxia - Kharkov, 1993.- 123s.*
16. *Rembez H.H. Operational gynecology.- K.: Zdorovya, 1985.256 p.*
17. *Mihaylenko O.T., Byublickl - Dornyak G.M. Physiological obsetrics. - K. High School. Chief. Publishing House, 1982. - 368p.*
18. *Moir D.D. Pain management of labour: trans.f. eng. - M., 1985.*
19. *Y.S. Parashchuk Infertility in marriage. - K.: Zdorovya, 1994. - 202s.*
20. *Persianinov L.S. Obstetric seminar. - In 2 v. - Tashkent, 1973.*
21. *V.N. Serov, Strizhakov A.N., Markin S.A. Practical obstetrics. - M., 1989.*
22. *Stepankivska G.K. ,Mihaylenko O.T. Obstetrics. - K.: Zdorovya, 1999. - 600 s.*
23. *Khmil S.V. Gynecology: Textbook for students of medical universities Vladimirovicha Khmilya. - Ternopil: Ukrmedknyha - 2003.*
24. *E.A. Chernukha Delivery unit. - M.: "Triada-X", 1999. - 533s.*

III. The level section of the program of study is determined through reference on:

A. The previous conditions: competence on the basis of the acquired knowledge, abilities, practical skills on acquired knowledge from biology, normal anatomy and physiology of the female reproductive system allow to correctly interpret the anatomy and physiology of the female genitalia from the obstetrical point of view as a fetus is an object of labour.

B. Aims and tasks: from each section there are specific training programs and a list of practical skills which are divided into the following modules:

Module I. Physiological pregnancy, childbirth and the postpartum period

a. Specific objectives:

1. Interpret clinical anatomy and physiology of the female genital organs, female pelvis;
2. Plan the tactics of pregnancy, physiological birth, postpartum period and neonatal period;
3. Perform a survey of pregnant women, women during labour and postpartum period, primary investigation and newborn hygiene;
4. Put a previous diagnosis of complications of pregnancy, childbirth and the postpartum period;
5. Plan tactics in case of complications of pregnancy, childbirth, postpartum period and neonatal period;
6. Interpret clinical anatomy and physiology of the female genital organs;
7. Plan and provide obstetric care in complicated pregnancy delivery and postpartum period.
8. Perform the necessary medical procedures.

b. The list of questions to prepare students for current and final testing.

1. Organization of obstetrical - gynecological care in the city and in the countryside. Health Insurance. The issue of maternal and child health in the current legislation of Ukraine.
2. The structure and principles of the hospital. Main indicators of work of obstetric hospital.
3. The roles of women consulting polyclinics in prevention of complications in pregnancy and childbirth, perinatal health of the fetus.
4. Women's consulting polyclinics and its role in the prevention, diagnosis and treatment of gynecological diseases.
5. Protection of women's work in the industry. The impact of hazards on menstrual and reproductive functions.
6. Consultation "Marriage and family." Medico - genetic counseling and its functions. The issue of family planning.

7. Psychoprophylactical preparation for childbirth.
8. Pharmacotherapy in obstetrics, the effects of drugs on the fetus
9. Medical deontology in obstetrics and gynecology. Doctor's ethics.
10. Transmission of AIDS, TORCH - infection and methods of prevention.
11. External and internal female genitalia.
12. Blood supply and lymphatic system of female genital organs.
13. Physiological changes in the female reproductive system at different ages.
14. The current understanding of the neuroendocrine regulation of menstrual function.
15. The structure of the female pelvis. Pelvis from the obstetric perspective. Perineum. Ultrasound pelviometry.
16. Fetus as an object of labor (the size of the fetal head, sutures, fontanelle).
17. The structure of the gamete germ cells. Fertilization and development of a fertilized egg. Capacitation. Implantation.
18. Placentation. Organogenesis. Development of membranes.
19. Methods of investigation of pregnant women. External and internal obstetric investigation of pregnant women. Fetal attitude, position, presentation, lie.
20. To define the early and late terms of pregnancy
21. To define the later terms of pregnancy.
22. The concept of viability, on-time birth and maturity of the fetus.
23. Determination of prenatal leave and date of the childbirth.
24. The reasons for the onset of labor. Regulation of labor. Registration methods of delivery. Monitoring during delivery.
25. Determination of maturity of the cervix.
26. Stages of childbirth. The duration in nuliparous and multiparous women.
27. Biomechanism of delivery at the front and rear types of occipital presentation.
28. The stage of cervical dilatation during labor. Symptoms, management.
29. Psychoprophylactic pain management. Pharmacological pain relief during labor
30. Non-pharmalogical methods of anesthesia during labor (Electro, needle reflexotherapy, etc.).

31. The stage of fetal expulsion of the fetus. Symptoms, management. Obstetric care in childbirth, measures to protect the perineum.
32. The stage of placenta delivery. Signs of placental separation. Symptoms, management of the stage of placental delivery.
33. Physiological detachment of the placenta and its birth.
34. Conservative means of management the placenta expulsion.
35. Determination of completeness of the placenta. The concept of physiological and pathological blood loss.
36. Symptoms and management of the postpartum period.
37. Changes in the body, genitalia and mammary glands of women after delivery.
38. Care of women after delivery. Therapeutic exercises. Nutrition of women after delivery.
39. Asepsis and antisepsis in obstetrics.
40. Reasons for multiple pregnancy. Diagnosis of multiple pregnancy Twins collision.
41. Peculiarities of labor in a multiple pregnancy. Prevention of complications.
42. Classification breechpresentation. Causes, Diagnosis.
43. Biomechanism of labor in case of breech presentation.
44. Mnagement of labor in case of breech presentation. Manual help in case of breech presentation (classical by Tsovyanov).
45. The concept of anatomic and clinical narrow pelvis. Diagnosis.
46. Classification of anatomically narrow pelvis in form and degree.
47. Peculiarities of pregnancy and childbirth with a narrow pelvis.
48. Peculiarities of labor biomechanism in case of various forms of pelvis narrowing.
49. Childbirth in case of big fetus. The etiology. Methods of diagnosis, complications during delivery.
50. The course of the neonatal period in case of macrosomia.
51. Fetoplacental blood supply as a part of functional hemodynamic system of the mother - fetus.
52. The functions of the placenta. The biological role of amniotic fluid.
53. Methods for determining the functional state of fetoplacental system in different periods of pregnancy, during labor. Chorionic villi sampling. Amniocentesis. Cordocentesis.
54. Embryonic and fetal periods of development. Blast-, embryo- and fetopathies. Diagnosis fetal development defects in different periods of pregnancy.

55. Anomalies of beyond the embryonic elements of a fertilized egg (placenta, membranes and cord).
56. Polyhydramnios and oligohydramnios. Peculiarities of pregnancy and childbirth.
57. Hereditary and congenital diseases of the fetus. The role of medico - genetic counseling in their diagnosis.
58. Perinatal pharmacology. The influence of alcohol and drugs and nicotine on the fetus.
59. Immunological blood incompatibility between mother and fetus (Rh - conflict incompatibility of the ABO system, isoleukocytar incompatibility, etc.).
60. Pathogenesis of immune conflict, the current system of diagnosis and treatment.
61. Prenatal care and determine the optimal time of childbirth in case of rhesus immunisation.
62. Keeping the postpartum period when immunological conflict.
63. Hemolytic disease of the newborn. Diagnosis and treatment.
64. Placental insufficiency. Classification. Diagnosis and therapy of placental failure.
65. Modern methods of diagnosis of the fetus state (MRI, ultrasound, cardiomonitor assessment of the fetus). Biophysical profile. Amnioscopy.
66. The retardation of the fetus. Etiology, diagnosis and treatment. Tactics of the management of labor.
67. Methods of treatment of fetal hypoxia.
68. Evaluation of the newborns by the Apgar and Silverman scale. Intensive care of the newborns in asphyxia.
69. Peculiarities of adaptation of premature and full-term newborns. Hormonal crisis of the newborn.
70. Intrauterine infection. TORH - infection.
71. Infectious - toxic disease of the newborn. Peculiarities nowadays.
72. Impaired function of lactation. Methods of correction.

a. List of practical skills for the current and final control skills

1. External obstetric examination of pregnant women, Leopold method, size of the pelvis, the definition of real conjugates.
2. To determine the term of pregnancy (according to the history and objective research).
3. Determination of gestational age of the fetus and its mass. Predictable time of delivery.
4. Management of physiological delivery.
5. Providing obstetrical help during labor and in the postpartum period.
6. Defining the state of the newborn using Apgar scale. The primary hygiene of the newborn.
7. Registration of medical records, on admission to the hospital of a pregnant woman, during labor and on the discharge from the hospital.

Module 2. "Pathological course of the pregnancy, childbirth and postpartum period."

Specific objectives:

1. To put a primary diagnosis and differential diagnosis of the various types of obstetric pathology;
2. Plan tactics of management of the pathological of pregnancy, childbirth and postpartum period;
3. Plan preventive and rehabilitative measures in case of different types of obstetric pathology;
4. To plan and provide first aid in emergency conditions in obstetrics.
5. Perform the necessary medical procedures.

6. The list of questions to prepare students for current and final testing.

1. Prevention of postpartum diseases. Postnatal leave.
2. Maintain delivery by Tsovyanov in case of footling breech presentation.
3. Modern principles of labor in case of breech presentation.
4. Early gestosis. Prializm, vomiting. Pathogenesis. Symptoms, diagnosis and treatment of early gestosis.
5. Rare forms of early gestosis.
6. Late gestosis. Modern classification of late gestosis. Symptoms of mono and polysymptomatic gestosis.
7. Preeclampsia. Eclampsia. Symptoms, doctor's tactics. Eclamptic status.
8. HELP - syndrome. Diagnosis and treatment.
9. Modern methods of treatment of late gestosis depending on the severity of preeclampsia and gestational age. Clinical management of pregnancy and childbirth. The role of women consulting policlinics in prevention of preeclampsia in pregnant women.
10. Clinical management of pregnancy and childbirth in case of diseases of the cardiovascular system (heart defects, hypertension, hypotension).
11. Management of pregnancy and childbirth in case of diseases of the hematopoietic system in pregnant women.

12. Clinical management of pregnancy and childbirth in case of endocrine diseases. Diabetes and pregnancy.
13. Clinical management of pregnancy and childbirth in case of diseases of the urinary system in pregnant women.
14. Clinical management of pregnancy and childbirth in case of respiratory diseases.
15. Clinical management of pregnancy and childbirth in case of diseases of the digestive system.
16. Acute and chronic infections in pregnant women, their effects on the embryo and fetus.
17. Pregnancy and birth in case of abnormalities of development of female genitalia.
18. Induced abortion in the early period. "Miniabortion." Contraindications. Complications.
19. Methods of abortion in different periods (early, late). Indications for abortion in later periods.
20. Causes of spontaneous abortion. Classification, clinical manifestations, diagnosis, treatment.
21. The causes of premature birth. Peculiarities of management. Methods of treatment.
22. Isthmic - cervical insufficiency (etiology, symptoms, diagnosis, therapy).
23. Etiology and pathogenesis of prolongation of pregnancy. Diagnosis.
24. The course of pregnancy and childbirth in case of prolongation of pregnancy.
25. Abnormalities of delivery. Classification.
26. Weakness labor. Etiology, symptoms, diagnosis and treatment of primary and secondary weakness of labor.
27. Discoordinated uterine contractile activity.
28. Excessive uterine contractile activity.
29. Modern methods of diagnosis and treatment of disorders of uterine contractile activity.
30. Extended cephalic presentation. Etiology, classification, diagnosis, prognosis.
31. Biomechanism of labor in case of different types of extended cephalic presentations.
32. Anomalies insert head. Causes and diagnosis.
33. High straight and low transverse sagittal suture. Etiology, diagnosis. The course and management of labor.
34. Neredlezhannya and loss of small parts of the fruit. Diagnosis and tactics doctor.
35. Fetus malpositions and their diagnostics.
36. Peculiarities of pregnancy and childbirth in case of fetus malpositions.
37. Traumatic injuries of the vulva, vagina and perineum.
38. Cervical ruptures during labor.
39. Uterine rupture during pregnancy and childbirth. Theories of origin. Classification. Clinic.
40. Peculiarities of uterine rupture by the scar. Investigation and evaluation of the uterine scar state.
41. The inversion of the uterus. Causes. Doctor's tactics.
42. The difference between the pelvic joints and gaps in delivery.
43. Maternity fetal injuries.
44. Etiology, classification of ectopic pregnancy.

45. Symptoms, diagnosis and treatment of ectopic pregnancy. Postoperative rehabilitation.
46. The role of endoscopic methods in diagnosis and treatment of ectopic pregnancy.
47. Pregnancy in the rudimentary uterine horn.
48. Cervical pregnancy.
49. Placenta Previa. Etiology, pathogenesis, classification, clinical features and diagnosis.
50. Peculiarities of pregnancy and childbirth in case of placenta previa. Obstetric tactics.
51. Premature detachment of the placenta (placental adruption) . Etiology, symptoms, diagnosis. Obstetric tactics.
52. Uterine bleeding during the stage of placenta delivery and in the early postpartum period (etiology, obstetric tactics).
53. Violation of separation processes of the placenta.
54. Hipo- and atonic uterine bleeding.
55. Coagulopathic bleeding.
56. Amniotic fluid embolism.
57. Haemorrhagic shock and terminal conditions in obstetrics.
58. Trombohaemorrhagic syndrome (stages, diagnosis, therapy).
59. Determination of amount of the blood loss. Current approaches to infusion-transfusion therapy depending on the degree of blood loss.
60. Intensive care and resuscitation in urgent situations in obstetrics.
61. Classification, etiology and pathogenesis. The main clinical forms of septic diseases. Diagnosis.
62. Symptoms, diagnosis and treatment of progressive thrombophlebitis and peritonitis.
63. Current views on the pathogenesis of sepsis. Classification. Symptoms, diagnosis and treatment.
64. Modern principles of treatment of purulent - septic diseases (antimicrobial therapy, anti-inflammatory, infusion, laser irradiation of blood UFOK, plasmaphoresis, drainage of the uterus cavity). Indications for surgical treatment.
65. Methods of prevention of septic obstetric complications.
66. General information about obstetric surgery. Indications, conditions, contraindications. Preparation. Examination. Instruments.
67. Operations that prepare the birth canal (peryneo- and episiotomy, dissection of the cervix, amniotomy).
68. Obstetric twist.
69. A classic twist fetal stem.
70. Obstetrical forceps. Indications, conditions, contraindications. Rules and techniques for the surgery. Vacuum extraction of the fetus.
71. Cesarean section in modern obstetrics. Indications and contraindications for Cesarean section. Options of cesarean section.
72. Surgeries in the stage of placenta delivery and early postpartum period.
73. Surgical methods of stopping the uterine bleeding in obstetrics. Hysterectomy. Ligation of the internal iliac arteries.
74. Fetal destruction operations.

75. Postoperative care after obstetric operations.

a. List of practical skills for the current and final control skills

1. Evaluate the condition of the cervix at full-term, post-term pregnancy and premature childbirth.
2. To determine the diagnostic criteria of narrow pelvis (to conduct pelviometry, measuring additional dimensions of the pelvis, the diagnosis of clinically narrow pelvis).
3. To make the algorithms of pharmacological therapy of delivery abnormalities.
4. To estimate the results of amnioscopy, amniocentesis, the interpretation of CT, ultrasound.
5. Develop an algorithms to provide urgent help with obstetric hemorrhage.
6. Provide urgent help in case of severe forms of preeclampsia and eclampsia.
7. Develop algorithms to provide urgent help in case of hypoxic complications of fetus and asphyxia of a newborn.

Module 3. "Diseases of the female reproductive system. Family planning. "

Criteria goals:

1. Interpret clinical anatomy and physiology of the female genital organs.
2. To determine the etiology and pathogenetic factors of gynecological diseases associated with endocrine disorders.
3. Put a previous diagnosis of gynecological diseases associated with endocrine disorders, plan examination and patient management.
4. To conduct necessary medical procedures.
5. Plan and provide urgent help in urgent situations in gynecology.
6. Identify the major etiological and pathogenetic factors of menstrual dysfunction of women.
7. To classify and analyze a typical clinical picture of violations of menstrual cycle of women.
8. Develop a plan of examination and analyze data from laboratory and instrumental examinations in case of disruptions of the menstrual function of women and their complications.
9. Identify tactics (principles of surgery and conservative treatment, rehabilitation) in the female menstrual dysfunction and their complications.
10. To carry out primary prevention of menstrual function disruptions of women.
11. Conduct differential diagnosis and form a preliminary diagnosis of menstrual function disruptions of women.
12. To be able to conduct necessary medical procedures.
13. Identify the major etiological and pathogenetic factors of benign, precancerous, and malignant diseases of the female reproductive system.
14. Classify and analyze the clinical picture of benign, premalignant and malignant diseases of the female reproductive system.
- 15 To form a plan of investigation and analyze data of lab and instrumental investigations in case of benign, precancerous and malignant diseases of the female reproductive system.
- 16 To perform differential diagnosis and formulate the previous diagnosis.
17. Identify tactics (principles of surgery and conservative treatment, rehabilitation) in precancerous, benign and malignant diseases of the female reproductive system.
18. Demonstrate the ability to perform the necessary medical procedures.
19. Identify the major etiological and pathogenetic factors of infertility.
20. Classify and analyze the clinical picture.
21. To form a plan of investigation and analyze data from laboratory and instrumental investigations in case of infertility.

22. Conduct a differential diagnosis, justify and formulate primary diagnosis of menstrual function disruptions of women.
23. Identify tactics (principles of surgery and conservative treatment, rehabilitation) in infertility and in disruptions of the menstrual cycle.
24. Demonstrate the ability to perform the necessary medical procedures.

b. The list of questions to prepare students for current and final module control.

1. General and special methods of examination of gynecologic patients.
2. Bimanual, vaginal examination through the rectum. Speculum examination.
3. Methods of functional diagnosis of the ovaries state.
4. Etiology, pathogenesis, classification of inflammatory diseases of the female genital organs. Peculiarities in different age periods.
5. Inflammation of the external genitalia and vagina.
6. Inflammation of the internal genitalia and vagina.
7. Sexually transmitted diseases (trichomoniasis, gonorrhea, ureaplasmosis, chlamydiosis).
8. Genital candidiasis. Symptoms, diagnosis and treatment.
9. Genital herpes infection. Symptoms, diagnosis and treatment
10. Bacterial vaginosis. Etiology, symptoms, diagnostic and treatment.
11. Tuberculosis of female reproductive organs.
12. Management of patients with tuboovarian abscess.
13. Classification of the menstrual function disorders.
14. Amenorrhea.
15. Dysfunctional uterine bleeding. Classification. Methods of diagnostic and treatment.
16. Juvenile uterine bleeding. Etiology, symptomatic diagnosis and treatment.
17. Postmenopausal uterine bleeding. Etiology, symptomatic, diagnosis and treatment.
18. Algomenorrhea. Symptomatic, diagnosis and treatment.
19. Neuroendocrine syndromes in gynecology.
20. Modern approaches to hormonal treatment in gynecology.
21. Causes of male and female infertility. Types of female infertility.
22. Plan of investigation of infertile couple.
23. Modern principles and methods of treatment of female infertility.
24. Contraceptives. Classification, mechanism of action and effectiveness of modern contraceptives.
25. Endometriosis. Etiology, pathogenesis, classification, clinical picture, diagnosis and modern treatment methods.
26. Abnormalities of genitalia position. Treatment and prevention.
27. Shortcomings in the development of female genitals. Reconstructive surgery.

28. Background and precancerous diseases of the cervix.
29. The concept of cysts and cystoma. Classification of the ovary tumors. Symptomatic, diagnosis and treatment.
30. Uterus fibroid. Classification, symptoms and diagnosis.
31. Conservative and surgical methods of fibroid treatment. Indications for surgical treatment.
32. Cancer of vulva. Classification, clinical picture, diagnosis and treatment
33. Cancer of vagina. Classification, clinical picture, diagnosis and treatment.
34. Cervical cancer. Classification, clinical picture, diagnosis and treatment.
35. Endometrial carcinoma. Classification, clinical picture, diagnosis and treatment.
36. Uterine sarcoma. Classification, clinical picture, diagnosis and treatment.
37. Ovarian cancer. Classification, clinical picture and treatment.
38. Tubal cancer. Classification, clinical picture and treatment.
39. Trophoblastic disease. Diagnosis and treatment.
40. Ovarian apoplexy. Differential diagnosis with surgical pathology.
41. Torsion of ovarian cysts. Differential diagnosis with surgical pathology.
42. Rupture of ovarian cysts.
43. Ischemia and necrosis of fibroid nodes. Differential diagnosis with surgical pathology.
44. Tuboovarial abscess. Differential diagnosis with surgical pathology.

B. List of practical skills for current and final control

1. Gynecological investigation (speculum, bimanual, rectum, rectovaginal)
2. History taking, estimation of the laboratory investigations (general and biochemical blood tests, urine blood coagulation, etc.)
3. Taking material from the vagina, urethra and cervical canal.
4. Evaluate the results of colposcycological study.
5. Evaluate the results of colposcopy.
6. Evaluate the diagnostic tests of the ovaries function.
7. Evaluate the results of the cytological, histological and bacteriological investigation.
8. Evaluate results of X-ray of female genitalia.
9. Estimate results of pelvic sonography.

Module 4: "Obsetrics and gynecology."

Specific objectives:

1. Interpret clinical anatomy and physiology of the female genital organs, female pelvis.
2. Evaluate the condition of pregnant women, women, women after delivery, fetuses and newborn
3. Plan the tactics of pregnancy, physiological delivery, postpartum period; evaluate the course of the neonatal period.
4. Put a previous diagnosis of complications of pregnancy, delivery and postpartum period.

5. Perform the necessary medical procedures.
6. To provide obstetric care for pregnant women, women during delivery and in the postpartum period.
7. To determine the peculiarities of examination and treatment of pregnant women and women during the delivery in case of pathology of pregnancy and childbirth.
8. To put a primary diagnosis, to conduct differential diagnosis and plan the tactics in case of major pathological conditions during pregnancy, childbirth and the postpartum period.
9. Develop a plan for prevention and rehabilitation measures in the case of different types of obstetric pathology.
- 10 Perform the necessary medical procedures.
11. Plan and provide first aid in emergency conditions in obstetrics.
12. Put the primary diagnosis and plan the tactics of pregnancy, childbirth in case of perinatal complications (placental dysfunction, fetal distress syndrome and fetal growth retardation).
13. Evaluate the results of the state investigation for the fetus in pregnant women prior to delivery, formulate the primary diagnosis, to carry out a differential diagnosis of various types of pathological conditions of the fetus.
14. To master the basic practical skills to provide first aid at the hypoxic conditions of the fetus and newborn asphyxia.
15. To prescribe treatment, make a plan of prophylaxis and rehabilitation measures in the case of different types of fetal pathology.
16. Interpret clinical anatomy and physiology of the female genital organs.
17. Plan and evaluate the results of clinical and laboratory investigation of gynecological patients.
18. Put a previous diagnosis of basic gynecological diseases from a survey.
19. Perform the necessary medical procedures.
20. To determine the etiologic and pathogenetic factors of major diseases of the female reproductive system.
21. Put a previous diagnosis and conduct the differential diagnosis of major gynecological diseases, plan examination and patient management.
22. Perform the necessary medical procedures.
23. To plan and provide first aid in emergency conditions in gynecology.
24. To determine the etiology and pathogenetic factors of major diseases of the female reproductive system, leading to infertility.
25. Identify primary clinical diagnosis based on the interpretation of the special examination of an infertile couple.
26. Appoint efficient modern health care measures for infertility.
27. Identify the principles, methods and structure of family planning services in Ukraine.
28. Identify the factors that influence the family planning, develop measures to efficient family planning.
29. Perform the necessary medical procedures.

**b. The list of questions to prepare students for current and final
module controle**

1. Physiology of pregnancy. Perinatal health of the fetus. Pharmacotherapy in obstetrics. The issue of medical statistics and ethics.
2. Physiology of childbirth. Pain management. Physiology of childbirth, postpartum period. Physiology of neonatal period. Medical documentation of the delivery and the postpartum period.
3. Inconsistency fetal head and pelvis of the mother. Problem of macrosomia in modern obstetrics. Malpositions of the fetus.
4. Early gestosis. Hypertensive disorders in pregnancy. Preeclampsia.
5. Pregnancy and childbirth in case of extragenital diseases
6. Multiple pregnancy. Premature termination of pregnancy.
7. Prolongation of pregnancy. Abnormal uterine contractile activity.
8. Birth injuries of mother and fetus. Current approaches to diagnosis and treatment of birth injuries the mother and fetus.
9. Isoantigen blood incompatibility of mother and fetus. Abnormal development of a fertilized egg.
10. Bleeding during pregnancy, delivery and the postpartum period. Hemorrhagic shock. DIC - syndrome. Terminal states in obstetrics.
11. Operative obstetrics.
12. Postpartum septic diseases
13. Placental dysfunction, growth retardation.
14. Pathology of the neonatal period. Methods of intensive care and resuscitation of the newborns.
15. Clinical peculiarities of anatomical construction of female genitalia. Physiological changes in female genitalia in different age periods. Current knowledge about menstrual function. Neuroendocrine regulation function of the reproductive system.
16. Modern methods of examination of gynecologic patients. Laboratory diagnostics. Principles and methods of treatment of gynecological diseases.
17. The problem of female urogenital inflammatory diseases. Current approaches to diagnosis and treatment.
18. Diagnosis, treatment and prevention of sexually transmitted diseases. Modern principles of treatment of acute and chronic inflammation diseases of the female genital organs.
19. The problem of menstrual function disturbances at different ages.
20. The issue of Gynecological Endocrinology, neuroendocrine syndromes in gynecology. Modern methods of diagnosis and treatment.
21. The problem of endometriosis. Modern etiopathogenetical views, methods of diagnosis, treatment, and prevention of endometriosis.
22. The problem of pathological conditions of the reproductive system in childhood and teens.
23. Abnormalities of position, traumatic injury and anomalies of gynecological oncology. Benign and precancerous diseases of female genital organs. Gynecological aspects of breast cancer. Modern methods of diagnosis, treatment and prevention.
24. The problem of gynecological oncology. Malignant tumors of the reproductive organs of women. Trophoblastic diseases. Modern methods of diagnosis, treatment and prevention.
25. The problem of emergency gynecological care, basic principles and techniques of surgery in gynecology.
26. "Acute abdomen" in gynecology. Current approaches to diagnosis, differential diagnosis, treatment and prevention of emergency gynecological conditions.

27. Indications, contraindications, conditions and technical peculiarities of the "small" gynecological operations.
28. Surgeries in case of uterine prolapse, descending vagina walls. Indications, contraindications, conditions and technical peculiarities.
29. Operations on the cervix, uterine appendages. Indications, contraindications, conditions and technical peculiarities.
30. Operations on the uterus: conservative myomectomy, uterine defundation, supravaginal amputation of the uterus, hysterectomy. Indications, contraindications, conditions and technical peculiarities.
31. Peculiarities of preparation and postoperative management of patients with gynecologic urgent and planned surgery. Principles and methods of anesthesiology and resuscitation during gynecological operations.
32. Modern treatment and diagnostic endoscopic methods in gynecology.
33. Medical - social meaning of infertility problems in marriage. Etiopathogenetic factors of infertility. Survey of a couple with infertility in marriage. Modern principles and methods of treatment of female infertility. Assisted reproductive technologies.
34. The organization, structure and objectives of family planning services. Modern aspects of contraception. Classification, mechanism of action and effectiveness of modern contraceptives.

a. List of practical skills for the current and final control skills

1. External obstetric examination of pregnant women, Leopold maneuver, measuring the size of the pelvis, the definition of real conjugates.
2. To determine the term of the pregnancy, gestational age of the fetus and the expected date of delivery (according to history and objective research).
3. Providing obstetrical help during labor and in the postpartum period.
4. Defining the state of the newborn according to the Apgar scale. Primary care for newborns.
5. Medical documentation on admittance of the pregnant woman to the hospital, during labor and during the dismissal from the hospital.
6. Diagnostic criteria of narrow pelvis, measuring the external dimensions of the pelvis.
7. Schemes of medical correction of anomalies of uterine contractile activity.
8. Conduct and interpret the results of the fetoplacental complex state research
9. Algorithms of urgent help in case of obstetrical hemorrhage.
10. Algorithms of urgent help in case of severe forms of preeclampsia.
11. Algorithms of urgent help in case of adverse and critical states of the newborn.
12. Gynecological examination (speculum, bimanual, rectal, rectovaginal).
13. To be able to collect special gynecological history, assess the results of laboratory studies (the blood count and the biochemical analysis of blood, urine, blood coagulation system, etc.).
14. To be able to take material from the vagina, urethra and cervical canal.
15. Evaluate the results colpot cytological investigation.
16. Evaluate the results colposcopic investigation.
17. Evaluate diagnostic tests of the functional state of the ovaries.
18. Evaluate the results of cytological, histological, bacteriological investigations.

19. Evaluate the results X-ray investigation of the genitalia.
20. Evaluate the results of the ultrasound.
21. Make a plan of examination of patients with different types of gynecological pathology.
22. To plan the treatment and prophylaxis regimen in case of different gynecological pathology.
23. Sounding of the uterus (phantom).
24. Puncture the abdominal cavity through the rear fornix (culdocentesis) (phantom).
25. Preoperative preparation and postoperative management of the gynecological patients.
26. Determination of blood groups and Rh factor. Conducting transfusion.

C. Bibliography:

C. Obligatory training program sections:

Module 1 .: "The physiological course of pregnancy, childbirth and the postpartum period."

Thematic plan of lectures

№№ п/п	Topic	Amount hours
1	The organization of obstetric care. Subject of Obstetrics and Gynaecology Basic Development Stages of obstetrics and gynecology. The role of the family physician in the prevention of perinatal diseases and mortality.	2
2	Physiology of pregnancy. Perinatal health of the fetus.	2
3	Physiology of labor. Pain management of delivery.	2
4	Multiple pregnancy.	1
5	Placenta insufficiency. Hypoxia of the fetus (acute and chronic). Fetus retardation, hypotrophy.	2
6	Farmacotherapy in obstetrics. The issue of medical deontology. Pharmacocinetics and pharmacodynamics of the medical drugs.	1
	Total	10

Thematic plan of practical lessons.

№№ п/п	Topic	Amount hours
1	Women pelvis. Fetus as an object of labor.	4
2	Physiology of pregnancy. Perinatal health of the fetus. Methods of investigation of the pregnant. Obstetrical terms.	4
3	Physiology of labor. Pain management of labor.	4
4	Physiology of postpartum stage. Physiology of the newborn period.	4
5	Pregnancy and labor in case of breech presentation. Pregnancy and delivery in case of abnormalities of the pelvis structure. The issue of macrosomy in obstetrics, pregnancy and delivery in case of a big fetust.	4
6	Anomalies of fertilized egg development. Multiple pregnancy. Anomalies of position of the fetus.	4
7	Methods of diagnostics of the state of the fetus prior to delivery. Placental insufficiency. Hypoxia of the fetusa (acute and chronic). Fetus retardation and hypotrophy.	4
8	Isoantigen incompatibility of mother's and fetus blood. Pathology of the neonatal period. Asphyxia of the newborn. Toxic septic diseases of the newborns. Methods of intensive care and resuscitation of the newborn.	4
9	An exam on educational history of labor.	4
	Final module control to the test module	4
	Total	40

Thematic plan of students' independent work (SIW)

№№ п/п	Types of SIW	No of hours	Types of control
1	Preparation for the practical classes and lectures, curation of the pregnant and women after delivery and the history taking of an educational history of labor	31	Current control on practical classes
2	Working on the topics, which are not included in the plan of audience classes:		Final module control
3	Individual SIW	2	Final module control
4	Preparation to the final module control	7	Final module control
	Total number of hours	40	

Module 2.: «Pathological course of pregnancy, labor and postpartum period».

Thematic plan of lectures

№№ п/п	Topic	Amount of hours
1	Early gestosis. Hypertensive disorders at pregnancy. Preeclampsia. Eclampsia.	2
2	Pregnancy miscarriage.	2
3	Obstetric bleedings during the first trimester of pregnancy. Ectopic pregnancy. Obstetric bleeding during the second trimester of pregnancy, during labor and postpartum period. Intensive care and resuscitation in case of bleedings in obstetrics.	2
4	Operative obstetrics. Birth trauma.	2

5	Postpartum septic diseases.	2
	Total	10

Thematic plan of practical lessons.

№№ п/п	Topic	Amount of hours
1	Early gestosis. Hypertensive disorders during pregnancy. Preeclampsia. Eclampsia.	4
2	Pregnancy miscarriage.	4
3	Prolongation of pregnancy. Anomalies of uterine contractile activity.	4
4	Pregnancy and labor in case of extragenital diseases.	4
5	Obstetric bleeding during the first trimester of pregnancy. Ectopic pregnancy. Obstetric bleedings during the second trimester of pregnancy, labor and postpartum period. Intensive care and resuscitation in case of obstetrical bleedings.	4
6	Operative obstetrics. Birth trauma.	4
7	Postpartum septic diseases.	4
8	Final module control for the test module 2	2
	Total	30

Thematic plan of students' independent work

№№ п/п	Types of SIW	Amount of hours	Types of control
1	Preparation for the practical classes	12	Current control on practical lessons
2	Individual SIW	3	Final module control
3	Preparation for the final module control	5	Final module control
	Total hours	20	

Module 3. «Diseases of the female reproductive system. Family planning».

Thematic plan of lectures

№№ п/п	Topic	Amount hours
1	Disturbances of the menstrual function. Neuroendocrine syndromes in gynaecology.	2
2	Benign diseases of the female genitalia.	2
3	Background and premalignant diseases of the female genitalia. Malignant neoplasms.	2
4	Inflammatory diseases of the female genitalia.	2
5	Infertility. Family planning.	2
	Total	10

Thematic plan of practical classes.

№№ п/п	Topic	Amount hours
1	Clinical anatomy and physiology of female genitalia. Methods of investigation of gynecological patients.	4
2	Disturbances of the menstrual cycle. Neuroendocrine syndromes in gynecology.	4
3	Endometriosis. Gynaecological diseases of children and teenagers. Abnormalities of female genitalia position and development.	4
4	Benign diseases of the female genitalia. Gynecological aspects of the mammary gland diseases.	4
5	Background and premalignant diseases of the female genitalia. Malignant neoplasms.	4
6	Inflammatory diseases of the female genitalia	4
7	“Acute abdomen” in gynecology.	4
8	Infertility. Family planning.	4
9	Exam of the educational history of a gynecological patient	4
10	Final module control of the module test	4
	Total	40

Thematic plan of istudents' individual work

№№ п/п	Types of SIW	Amount of hours	Types of control
1	Preparation for the practical classes	15	Current control on the practical classes
2	Working of topics, that are not included into the audience classes		Final module control
3	Individual SIW	5	Final module control
4	Preparation for the final module control	5	Final module control
	Total hours	25	

The module 4: «Obstetrics and gynecology».

Thematic plan of practical classes.

№№ п/п	Topic	Amount of hours
1	Physiology of pregnancy, labor and postpartum period. Prenatal fetus health. Pharmacotherapy in obstetrics. The issue of medical ethics and deontology.	5,5
2	Early gestosis. Hypertensive disorders at pregnancy. Preeclampsia. Eclampsia. Indications, contraindications, conditions and technical peculiarities of the surgeries in obstetrics.	5,5
3	Multiple pregnancy. Premature termination of pregnancy. Prolonged pregnancy.	5,5
4	Bleeding during pregnancy, labor під час pregnancy, in пологах та in a puerperium. Hemorrhagic shock. DIC is a syndrome. The terminal states are in obstetrics.	5,5
5	Abnormalities of uterine contractile activity. Birth trauma of mother and fetus. Modern principles of diagnosis and treatment of the birth trauma of mother and fetus.	5,5
6	Pregnancy and labour in case of extragenital diseases	5,5
7	Placenta dysfunction, fetus growth retardation. Pathology of the neonatal period. Methods of intensive care and resuscitation of the newborn.	5,5

	new-bornness. Methods of intensive therapy and reanimation new-born.	
8	Final module control to the test module	5,5
9	Clinical and physiologicall changesin female reproductive organs in different age periods. Neuroendocrine regulation of the reproductive system.	5,5
10	Female urogenital inflammatory diseases. Diagnosis and treatment.	5,5
11	Disturbances of the menstrual function at different age periods. Neuroendocrine syndromes in gynecology.	5,5
12	Endometriosis. Methods of diagnostics, treatment and prophylaxis of endometriosis. Abnormalities of position, traumatic damages and abnormality of development of female genitalia.	5,5
13	Pathological states of the perroductive system in childhood and teenagers.	5,5
14	Benign diseases of the female genitalia. Diagnosis, treatment and prophylaxis. Gynecological aspects of the mammary glands diseases.	5,5
15	Bachground and premalignant diseases of the female genitalia. Malignant neoplasms and trophoblastic diseases. Diagnosis, treatment and prophylaxis.	5,5
16	“Acute abdomen” in gynecology. Diagnostics, differential diagnostics, treatment and prophylaxis of the urgent states in gynecology, basic principles and methods of surgical treatment.	5,5
17	Indications, contraindications , conditions and technical peculiarities of the sugeries on the uterus (conservative myomectomy, uterus defundation, supravaginal amputation of the uterus, hysterectomy), on the cervix, uterine appendages, in case of descending of vaginal walls and uterine prolapsed. Diagnostic-treatment endoscopic methods of treatment in gynecology. Peculiarities of preparation and postoperative care of the gynecological patients in case of urgent and planned sugeries. Principles and methods of anesthesia and resuscitation during gynecological sugeries.	5,5
18	A Medical-social value of problem of infertility in marriage. Ethio-pathogenetic causes of infertility. The investigation of a married couple in case of infertile marriage. Modern principles and methods of treatment of female infertility. Assisted reproductive technologies.	5,5
19	Organization, structure and of service of planning of family. Modern aspects of contraception. Classification, mechanism дїтга efficiency of modern anticoncipienss.	5,5
	Final module control test to the module	11

Selective section of the study program

Module of the choice course «Endoscopic technologies in obstetrics and gynaecology», educational hours - 30, lecture hours - 10, practical hours – 20 students' individual work - 30.

IV. Teaching staff.

a) Teachers who teach the section of the program : Module 1, Module 2 and Module 3:

- Malyar Vasil Andriyovich, doctor of medical sciences, profesor;
- Gerazanich Svyatoslav Omelyanovich – doctor of medical sciences;
- Malyar Vitaliy Vasilyovich – candidate of medical sciences, associate professor;
- Tsmur Olga Vasilivna – candidate of medical sciences, associate professor;
- Malyar Volodimir Vasilyovich – candidate of medical sciences.
- Lemish Nataliya Yuriivna

б) Teachers who teach the section of the program : Module of 4:

- Malyar Vasil Andriyovich, doctor of medical sciences, profesor;
- Korchinska Oksana Oleksandrivna - doctor of medical sciences, professor;
- Khashcha Ivan Ivanovich - doctor of medical sciences, associate professor;
- Gerazanich Svyatoslav Omelyanovich – doctor of medical sciences;
- Tsmur Olga Vasilivna – candidate of medical sciences, associate professor;

V. Duration.

For completion of certain division of the program of studies and time which is officially required for completion of certain division of the program у таблиці is pointed 1.

Table 1.

Description of curriculum in hours from the certain divisions of discipline

"Obstetrics and gynaecology" after speciality 7.110101 "Medical business"

Structure of the educational discipline	Amount of hours, from them				Year of study	Kind to control
	Total	Audience		SIW		
		Lectures	Practical lessons			
Hours/credits of ECTS	450/15	30	220	200	4-6	
Module of 1:	90 hours/3,0	10	40	40	4	Current and

thematic modules 2	credits of ECTS					final module control
Total for the 4 th year of study	90 hours/3,0 credits of ECTS	10	40	40	4	
Module 2: Thematic modules 1	60 hours/2,0 credits of ECTS	10	30	20	5	Current and final module control
Module 3: Thematic modules 4	75 hours/2,5 credits of ECTS	10	40	25	5	Current and final module control
Total for the 5 th year of study	135 hours/4,5 credits of ECTS	20	70	45	5	
Module 4: Thematic modules 3	225 hours/7,5 credits of ECTS		110	115	6	Current and final module control
Total for the 6 th year of study	225 hours/7,5 credits of ECTS		110	115	6	

VI. The forms and methods of teaching.

The educational process in specialty 7.110101 "Medical speciality" of course "Obstetrics and gynecology" in accordance with the requirements of the Bologna system is done by credit system, using the following forms of study:

- Lectures;
- Practical training;
- Independent student work;
- Individual tasks.

The training process has a clear methodical approach concerning the choice of methods to ensure an appropriate level of assimilation that meet the objectives of lesson:

1) teaching methods that ensure I level of assimilation:

- Lecture method;
- Independent work with sources of information on a study level (textbooks, manuals, clinical protocols, computer tutorials, visual material).

2) teaching methods that provide the II level of assimilation:

- Lecture method;
- Independent work with sources of information on reproductive level (visibility materials, clinical protocols, computer training program).

3) teaching methods that provide level III assimilation:

- Method of forming practical skills - practical training and system of repeating certain professional activities for a given algorithm in order to achieve the stage of automatism;
- Method of forming practical skills : active professional training (solving atypical situational problems, development of methods of care, assistance in delivery and in urgent situations, etc.).

4) teaching methods that provide a creative level:

- Method of forming practical skills, practical training and system of repeating certain actions by unknown algorithm aimed to achieve professional clinical thinking;
- Method of forming skills: active professional training aimed to students' individual search, yet unknown data or mode of action - a problematic situation created in clinical and experimental problems (wide or localized character) and laboratory tests;
- Method for solving complex theoretical issues at different levels of problematic:

I - level - the problem is formed and solved by the teacher himself;

II - level - the problem is formed by the teacher and solved by the students with the help of the teacher;

III - level - the problem is formed by the teacher and solved by the students individually;

IV - level – the problem is formed and solved by the students themselves

For each section assimilation the training program is assigned a certain number of hours (see. Table). Practical classes for credit-modular system of educational process are held in rotation mode of clinical modules. The duration of practical classes - 4 academic hours. The lectures are read according to the thematic plan. The duration of a lecture - 2 academic hours.

VII. Evaluation

Forms of control and the system of evaluation is pursuant to the requirements of the discipline and instruction of the system of evaluation of learning activities of students in credit-modular system of educational process, approved by the Ministry of Health Care of Ukraine (2005), with appropriate modifications from 21.01.2008 p. № 08.01-22 / 65.

Current control is carried out in each class according to specific goals of each topic. In assessing of the educational activity students must give priority to standardized methods of control, testing, structured written work, a structured procedure for the control of practical skills in conditions that are close to reality.

At mastering each topic module for current educational activity student are estimated by 4 marks scale, which is converted into points, depending on the number of topics in the module.

The system of conversion of the traditional system of marks into points:

Traditional mark "5" corresponds to the maximum number of points a student can get during learning a topic on the practical lesson. Marks "4" and "3" are in points, respectively 80% and 60% of the maximum score in points.

The maximum number of points that can be collected by the student during the module learning is 120. It is a result of multiplying the number of points on the number of topics that correspond the mark "5", addition of points for students' individual work, if any are foreseen by the program.

The minimum number of points that the student can get in a module study is calculated by multiplying the number of points that corresponds the mark "3" on the number of topics in the module.

Evaluation of individual work is described in the relevant modules. Scores for individual work are added to the amount of points gained by a student for current educational activity.

In the study of modules 1 and 3 program provides curation, writing and learning of the history of the disease. Curation of a pregnant or gynecological patient and the writing of a history is made in the time led out for self-learning at the department. An exam on the history of the disease is held during the practical

classes. In estimation of the history of the disease traditional marks are converted according to ones foreseen by the study of this module.

Evaluation of students' independent work for preparation for classroom practical lessons is performed during the current control on the corresponding auditorium class.

The mastering of the topics that are only on the students' independent study and are not included in the auditorium practical lessons is controlled and estimated during the final modular control.

The final module control is carried out on completion of all topics at the last lesson of the module.

For the final modular control the students that attended all, foreseen by the program, auditorium lessons, and who had scored the amount of points not less than minimum are allowed.

The form of the final module control is standardized and includes the control of the theoretical and practical training.

The maximum number of points for the final module control is 80.

The final module control is passed if the student scored at least 50 points.

7.2 Evaluation of the results of the module study and the discipline in a whole.

Evaluation of students' progress in the discipline is rating and is based on the lots –of-points based scale with taking into account the marks for the assimilation of the separate modules, according to the results of the knowledge control based of the grades and criteria of the evaluation, that are written in the table 1.

Table 1 Correspondence of the results of the knowledge control of the different grades and evaluation criteria

Sum of points by the 200 – point system	An estimation in ECTS	The meaning of the mark	Evaluation criteria	Level of competence	An estimation is the national scale	
					exam	credit
180-200	A	Excellent	A student exposes the special creative capabilities, is able to obtain knowledge independently, finds and works over necessary information without the assistance of a teacher, able to use the acquired knowledge and skills for the decision in non-standard situations, convincingly argues answers, independently exposes own talent and inclinations	High (creative)	Excellent	
164-179	B	Very good	A student freely possesses the studied amount of material, applies him in practice, freely decides exercises and tasks in standard situations, independently corrects suffered errors the amount of which is insignificant		Good	
148-163	C	Good	A student is able to compare, to summarize, to systematize the information under the direction of teacher; in a whole independently applies them in practice; corrects the errors among which are substantial, gathers additional arguments for confirmation of ideas	Sufficient (structurally variant)		

128-143		Satisfactory	Student reproduces a significant part of theoretical material identifies knowledge and understanding of the basic provisions; through teacher training material can analyze and correct errors that include a significant amount of essential errors			
127-120	E	Sufficient	A student owns educational material at level, higher than initial, the recreates the a significant part of in the reproductive level	Middle (reproductive)	Satisfactory	reckoned
70-119	PX	Unsatisfactorily with the possibility of re-assembly of the semester control	A student owns material at the level of separate fragments which present non significant part of the educational material			
0-69	P	Unsatisfactory with obligatory repeated study of the test credit	A student owns material at the level of elementary recognition and recreation of separate facts, elements, objects	Low (reproductive)	Unsatisfactory	Not reckoned

Note: an evaluation scale is made on the basis of «Order» of dean's office of medical faculty of UzNU № 11/08 - 04 from October, 16 in 2012

Assessment for the module is defined as the sum of the scores of current educational activity (in points) and assessment of the final module control (in points), which is proposed in the assessment of theoretical knowledge and practical skills in accordance with lists defined by the program in the discipline.

The maximum number of scores that students can score during the learning of the module (test credit) - 200, including for current educational activity - 120 points (60%), the results of the final module control - 80 points (40%).

The mark for Obstetrics and Gynecology is put only to the students who have completed all modules of discipline.

The mark for the discipline is set as the average score of all modules that are structured in discipline "Obstetrics and Gynecology".

The distribution of scores on the individual modules are shown below.

Module 1 (Content of the estimation activity)	Maximal amount of points.
Thematic modules.	
Topic 2. Women pelvis. Fetus as an object of labour.	12
Topic 3. Physiology of pregnancy. Perinatal health of the fetus. Methods of investigation of the pregnant. Obsetric terms.	12
Topic 4. Physiology of labour. Pain management.	12
Topic 5. Physiology of postpartum stage. Physiology of the neonatal period.	12
Thematic module.	
Topic 6. Pregnancy and labor in case of breech presentation. Pregnancy and labour in case of female pelvis abnormalities. The problem of macrosomy in obstetrics, pregnancy labour in case of a big fetus.	12
Topic 7. Abnormalities of the fertilized egg development. Multiple pregnancy. Abnormalities of fetus position.	12
Topic 8. Methods of diagnostics of pre-delivery state of the fetus. Placenta insufficiency. Fetus hypoxia (acute and chronic). Fetus retardation, hypotrophy.	12
Topic 9. Isoagnigen of mother's and fetus blood. Pathology of the neonatal period. Asphyxia of the new-born. Toxic septic diseases of the newborns. Methods of intensive care, resuscitation of the newborn.	12
Topic 11. Exam of the educational labour history.	12
Students' individual work.	12
Total current educational activity.	120
Final module control.	80
Total of points is for the module	200

At mastering topics from traditional system marks "5" - 12 points "4" - 10 "3" - 8 points, "2" - 0 points. SIW - 12 points. The maximum number of points for current students' educational activity - 120.

A student is allowed to take final module control in case of implementation of the curriculum requirements and in case he scored not less than 72 points for the current educational activity during practical classes (9x8).

The final module control is credited if student scored at least 50 points out of 80.

7.2.2. The distribution of points for assessing students' learning activity of Module 2.

Module is 2 (content of the estimation activity)	Maximal amount of points.
Thematic module 2.	
Topic 12. Early gestosis. Hypertensive disorders during pregnancy. Preeclampsia. Eclampsia.	16
Topic 13. Pregnancy miscarriage.	16
Topic 14. Prolongation of pregnancy. Anomalies of uterine contractile activity.	16
Topic 15. Pregnancy and labor in case of extragenital diseases.	16
Topic 16. Obstetric bleeding during the first trimester of pregnancy. Ectopic pregnancy. Obstetric bleedings during the second trimester of pregnancy, labor and postpartum period. Intensive care and resuscitation in case of obstetrical bleedings.	16
Topic 17. Operative obstetrics. Birth trauma.	16
Topic 18. Postpartum septic diseases.	16
Students' individual work.	8
Total current educational activity.	120
Final module control.	80
Total of points for the module.	200

At mastering topics from traditional system marks "5" - 16 points "4" - 13 "3" - 10 points, "2" - 0 points. SIW – maximum 8 points.

The maximum number of points for current students' educational activity - 120.

A student is allowed to take final module control in case of implementation of the curriculum requirements and in case he scored not less than 70 points¹ for the current educational activity during practical classes (7x10).

The final module control is credited if student scored at least 50 points out of 80.

7.2.3. The distribution of points for assessing students' learning activity of Module 3.

The module is 3 (content of the estimation activity)	Maximal amount of points.
Thematic module 4.	
Topic 19. Clinical anatomy and physiology of female genitalia. Methods of investigation of gynecological patients.	13
Topic 20. Disturbances of the menstrual cycle. Neuroendocrine syndromes in gynecology.	13
Topic 21. Endometriosis. Gynaecological diseases of children and teenagers. Abnormalities of female genitalia position and development.	13
Thematic module 5.	
Topic 22. Benign diseases of the female genitalia. Gynecological aspects of the mammary gland diseases.	
Topic 23. Background and premalignant diseases of the female genitalia. Malignant neoplasms.	13
Thematic module 6.	
Topic 24. Inflammatory diseases of the female genitalia	13
Topic 25. "Acute abdomen" in gynecology.	13
Thematic module 7.	
Topic 26. Infertility. Family planning.	13
Topic 27. Exam of the educational history of a gynecological patient	13
Students' individual work	3
Total current educational activity	80
Final module control.	200

At mastering topics from traditional system marks "5" - 13 points "4" - 10 "3" - 8 points, "2" - 0 points. SIW – maximum 3 points.

The maximum number of points for current students' educational activity - 120.

7.2.1 Розподіл балів для оцінки навчальної діяльності студента з модулю 1.

A student is allowed to take final module control in case of implementation of the curriculum requirements and in case he scored not less than 72 points for the current educational activity during practical classes (9x8).

The final module control is credited if student scored at least 50 points out of 80.

7.2.4. The distribution of points for assessing students' learning activity of Module 4.

Module 4.1. (content of the estimation activity) .	Maximal amount of points.
Thematic module 8.	
Topic 28. Physiology of pregnancy, labor and postpartum period. Prenatal fetus health. Pharmacotherapy in obstetrics. The issue of medical ethics and deontology	6
Thematic module 9.	
Topic 29. Early gestosis. Hypertensive disorders at pregnancy. Preeclampsia. Eclampsia. Indications, contraindications, conditions and technical peculiarities of the surgeries in obstetrics.	6
Topic 30. Multiple pregnancy. Premature termination of pregnancy. Prolonged pregnancy.	6
Topic 31. Bleeding during pregnancy, labor під час pregnancy, in пологахта in a puerperium. Hemorrhagic shock. DIC is a syndrome. The terminal states are in obstetrics.	6
Topic 32. Abnormalities of uterine contractile activity. Birth trauma of mother and fetus. Modern principles of diagnosis and treatment of the birth trauma of mother and fetus.	6
Topic 33. Pregnancy and labour in case of extragenital diseases	6
Thematic module 10.	

Topic 36. Placenta disfunction, fetus growth retardation. Pathology of the neonatal period. Methods of intensive care and resuscitation of the newborn	6
Students' individual work.	12
Total control of the current educational activity.	120
Final module control.	80
A sum of points is for the module. Module 4.2. (content of the estimation activity) Thematic module 11.	200
Topic 38. Clinical and physiological changes in the female genitalia at different age periods. Neuroendocrine regulation of the reproductive system function. Thematic module 12.	6
Topic 40. Female urogenital inflammatory diseases. Diagnosis and treatment.	6
Topic 41. Disturbances of the menstrual function at different age periods. Neuroendocrine syndromes in gynecology.	6
Topic 42. Endometriosis. Methods of diagnostics, treatment and prophylaxis of endometriosis. Abnormalities of position, traumatic damages and abnormality of development of female genitalia.	6
Topic 43. Pathological states of the perrodutive system in childhood and teenagers.	6
Topic 44. Benign diseases of the female genitalia. Diagnosis, treatment and prophylaxis. Gynecological aspects of the mammary glands diseases.	6
Topic 45. Background and premalignant diseases of the female genitalia. Malignant neoplasms and trophoblastic diseases. Diagnosis, treatment and prophylaxis.	6
Topic 46. "Acute abdomen" in gynecology. Diagnostics, differential diagnostics, treatment and prophylaxis of the urgent states in gynecology, basic principles and methods of surgical treatment.	6
Topic 47. Indications, contraindications , conditions and technical peculiarities of the sugeries on the uterus (conservative myomectomy, uterus defundation, supravaginal amputation of the uterus, hysterectomy), on the cervix, uterine appendages, in case of descending of vaginal walls and uterine prolapsed. Diagnostic-treatment endoscopic methods of treatment in gynecology. Peculiarities of preparation and postoperative care of the gynecological patients	6

7.2.1 Розподіл балів для оцінки навчальної діяльності студента з модулю 1.

interferences. Principles and methods of анестезіології and reanimation are підчас гynaecological operations.	
Thematic module 13.	
Topic 48. .A Medical-social value of problem of infertility in marriage. Etiopathogenetic causes of infertility. The investigation of a married couple in case of infertile marriage. Modern principles and methods of treatment of female infertility. Assisted reproductive technologies.	6
Topic 49. Organization, structure and of service of planning of family. Modern aspects of contraception. Classification, mechanism діїта efficiency of modern anticoncipienss.	6
Students' individual work	12
Total of current educational activity.	120
Final module control.	80
Total of points is for the module.	200

At mastering the topics from module 4.1 by traditional system marks "5" - 16 points "4" - 13 "3" - 10 points, "2" - 0 points.

The maximum number of points for current students' educational activity - 120.

A student is allowed to take final module control in case of implementation of the curriculum requirements and in cse he scored not less than 70 points for the current educational activity during practical classes (10x7).

The final module control is credited if student scored at least 50 points out of 80.

At mastering the topics from module 4.2 by traditional system marks "5" - 10 points "4" - 8 "3" - 6 points, "2" - 0 points.

The maximum number of points for current students' educational activity - 120.

A student is allowed to take final module control in case of implementation of the curriculum requirements and in cse he scored not less than 66 points for the current educational activity during practical classes (6x11).

The final module control is credited if student scored at least 50 points out of 80.

7.2.1 Розподіл балів для оцінки навчальної діяльності студента з модулю 1.

Encouraging points by the decision of the Academic Council may be added to the number of points of discipline for students who have a scientific publication or won prizes for participating in the competitions of the discipline among universities of Ukraine, etc.

Objectivity of evaluation of the educational activity of students must be tested by statistical methods (correlation coefficient between the current progress and results of the final module control).

Conversion of points of discipline in the scales of assessment ESTB and 4-point scale (traditional) is as follows:

Students who are studied by specialty "Obstetrics and Gynecology" taking into account the number of points gained from courses ranked by ESTB as follows:

Estimation of ECTB	Statistical index
A	The best 10 % students
B	Next 25 % students
C	Next 30 % students
й	Next 25 % students
E	Other 10 % students

Ranking of assigning marks "A", "B", "C", "and", "E" is held for students of this course, studying one specialty, and successfully completed the study subjects. Students who have received evaluation "P" and "PX" ("2") are not enlisted in the list of students who ranked even after re-taking the module. These students after re-taking receive the mark "E".

Marks "P,PX" are put to students who were not reckoned at least one module after the course completion.

Mark "PX" is assigned to students who scored a minimum number of points for current educational activity but who didn't score enough points for final module control. This category of students have the possibility to re-take the final modular control in accordance with the approved schedule during the holidays for two weeks after the end of the school year. Re-assembling the final control is permitted for a maximum of two times.

Grade "P" is assigned to students who attended all classes of module, but not yet have the minimum number of points for current educational activity and were not admitted to the final testing. This category of students has the right to re-study the module.

Points of discipline for students who have successfully completed the program in the discipline, converted into traditional 4-point scale for absolute criteria as described in the table below.

Points of the discipline	Estimation by the 4-grade scale
From 180 to 200 points	5

From 164 to 179 points	4
The from 143 to 120 minimum of points, that a student has to collect	3
Less than minimum amount of points, that a student has to achieve from 110-119 points	2

Note: an evaluation scale is made on the basis of «Order» of dean's office of the medical faculty of UzNU № 11/08 - 04 from October, 16 in 2012

Estimation of ECİB into the traditional scale is not converted, as ECİB and 4-grade scale are independent.

VI. Language.

All divisions of the program are taught in the official language.

VII. Dictionary.

ECTS - credit transfer system