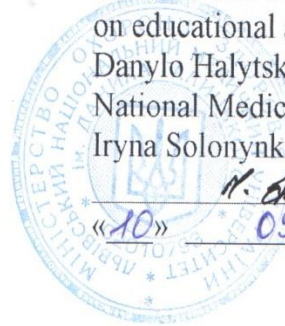


DANYLO HALYTSKY LVIV NATIONAL MEDICAL UNIVERSITY

Department of Obstetrics and Gynecology

«APPROVED»

The first vice-rector
on educational and pedagogical affairs at
Danylo Halytsky Lviv
National Medical University
Iryna Solonyenko



«10» 05 2023

EDUCATIONAL PROGRAM

selective course BB 1.67

Endoscopic technologies in obstetrics and gynecology

Educational level: second (master's)
Branch of knowledge: 22 – Healthcare
Speciality: 222 Medicine

Faculty, course: Medical faculty, 5 year

Considered and approved
at the meeting of the Department
of Obstetrics and Gynecology
meeting report № 6/97
“31” March 2023

Chair of the Department
cor.-memb. NAMS of Ukraine

Leonid Markin

Approved

at the meeting of the Surgical
Methodological Commission of Danylo
Halytsky Lviv National Medical University
meeting report № 20
“27” April 2023

Head

of the Surgical Methodological Commission

Victor Andrushchenko

2023

DANYLO HALYTSKY LVIV NATIONAL MEDICAL UNIVERSITY

Department of Obstetrics and Gynecology

«APPROVED»

The first vice-rector
on educational and pedagogical affairs at
Danylo Halytsky Lviv
National Medical University
Iryna Solonyenko

_____ 2023
«___» _____

EDUCATIONAL PROGRAM

selective course BB 1.67

Endoscopic technologies in obstetrics and gynecology

Educational level: second (master's)
Branch of knowledge: 22 – Healthcare
Speciality: 222 Medicine

Faculty, course: Medical faculty, 5 year

Considered and approved
at the meeting of the Department
of Obstetrics and Gynecology
meeting report № 6/97
“ 31” March 2023

Chair of the Department
cor.-memb. NAMS of Ukraine

Leonid Markin

Approved
at the meeting of the Surgical
Methodological Commission of Danylo
Halytsky Lviv National Medical University
meeting report № 20
“27” April 2023
Head
of the Surgical Methodological Commission

Victor Andrushchenko

2023

The program of the elective course "Endoscopy technologies in obstetrics and gynecology" for students of the 5th year of the medical faculty , who will start for the specialty 222 "Medicine" is folded by the Head of the department of medical sciences , member-kor. NAMS of Ukraine Prof. L.B. Markin:

Assoc . Prof. L.M. Yashchenko:

In addition to the following regulatory documents:

Law of Ukraine "On Vision of Osvita" dated 01.07.2014 No. 1556-VII;
information and professional programs (OPP) of production of functions;

For the sake of Lviv national medical university Danylo Halytsky (Protocol No. 1 of the Verkhovna Rada) on 23.02.2022 and The Initiative on the Organization of the Educational Process at the Lviv National Medical Medical University Danilo Halytsky, praised by the Verkhovna Rada and confirmed by the order of the rector of the university No. 2020-z vid 23.06.2021.

Changes and additions to the curriculum for the 2023-2024 academic year

№	Contents of changes (additions)	Date and Protocol № of the department meeting	Notes
1.	The list of recommended literature has been updated by modern sources in Ukrainian and English	Protocol No. 6/97 from "31" March 2023	

Head of Department
MD, Corresponding Member NAMS of Ukraine,
prof. L.B. Markin

EXPLANATORY NOTE

The program of the course "Endoscopy technologies in obstetrics and gynecology" for the higher medical educational institution of Ukraine III-IV level of accreditation for special studies 222 "Medicine" : magistr.

Name of disciplini	Loan capacity (annual)	Lectures	Practical	CPC	Type of control
Elective course "Endoscopy technologies in obstetrics and gynecology"	2 credits/60 years	-	26	34	Credit

The educational programs have been submitted for a significant period of theoretical information on the basis of endoscopy in obstetrics and gynecology. While studying students increase their level of training for the preparation of the necessary practical cases. At practical classes, the theoretical material and the practical work of practical programs are introduced.

The individual work is one of the forms of the teaching, which is to be regulated by a timid plan and to look at the self-esteem of the position of the auditors to occupy. It is possible to see the self-concept of self-employed individual work :preparation to the practical occupation, topics, to look at the lichen in the topic of self-style individual work, curatsion of gynecological patients ,study of additional laterature, writing abstracts, preparing additional materials for the study of practical activities. Individualne task-form of the organization of the training to deepen knowledge which students receive while studying, application of this knowledge in practice that is , individual research.

Control of the situation is carried out on the basis of control and control of practical tasks.

For the first time in the future, we need to plan for the development of professional tasks and medical assistance in obstetrics and gynecology. A number of demographic situations in Ukraine have been working on the implementation of the project.

Relevance of the problem

For the remaining 20 years, the using of the endocrine technology in obstetrics and gynecology has led to a revolution in the problem of diagnosis and low health care. The development of endoscopy technologies is allowed to go through the work of simple visual examination of the abdominal cavity organs of the small pelvis to the use of complex sugical interventions on the uterus, uterine appendages; in the rest of the country there is a wide development of fetal surgery. Therefore the study of possibilities in use of the endoscopy methods in obstetrics and gynecology is necessary for the voluntary training of students in the most medical universities III – IV level of accreditation.

The purpose of studying the course

The elective course "Endoscopy technology in Obstetrics and gynecology " is based on the

basics of educational centers, which are recognized in the educational and professional programs (OPP). Stinky means this rank:

1. Put up a preliminary diagnosis at the basic diseases of the reproductive system, so as to require endoscopy for diagnosis, treatment, plan a patient`s examination and tactics of patient management.
2. Know preoperative preparation and postoperative management of the patient..
3. Identify the main types of interventions need for medical research in obstetrics and gynecology.
4. Provide emergency endoscopic care for complications in gynecology..

1.3 Competences and learning outcomes

It lays the foundations for the formation of students' skills, which are determined by the ultimate goals of studying obstetrics and gynecology as an independent discipline and can be used by students to logically justify the diagnosis of the disease, conduct differential diagnosis, therapy, prevention and rehabilitation of patients, the ability to provide medical care in emergency conditions in the work of a general practice.

According to the requirements of the Standard of Higher Education, discipline ensures that students acquire such **competencies**.

General (GK):

GK 1.	Ability to abstract thinking, analysis and synthesis.
GK 2.	Ability to learn and master modern knowledge.
GK 3.	Ability to apply knowledge in practical situations.
GK 4.	Knowledge and understanding of the subject area and understanding of professional activity.
GK 5.	Ability to adapt and act in a new situation.
GK 6.	Ability to make informed decisions.
GK 7.	Ability to work in a team.
GK 8.	Ability to interpersonal interaction.
GK 9.	Ability to communicate in a foreign language.
GK 10.	Ability to use information and communication technologies.
GK 11.	Ability to search, process and analyze information from various sources.
GK 12.	Definiteness and perseverance in terms of tasks and responsibilities.
GK 13.	Awareness of equal opportunities and gender issues.
GK 14.	The ability to exercise own rights and responsibilities as a member of society, to realize the values of civil (free democratic) society and the need for its sustainable development, the rule of law, human rights and freedoms and the citizen of Ukraine.
GK 15.	Ability to preserve and increase moral, cultural, scientific values and achievements of society based on understanding the history and patterns of development of the subject area, its place in the general system of knowledge about nature and society and in the development of society, techniques and technologies. active recreation and leading a

	healthy lifestyle.
--	--------------------

- *Special (professional, subject) (PC):*

PC 1.	Ability to collect medical information about the patient and analyze clinical data.
PC 2.	Ability to determine the required list of laboratory and instrumental studies and evaluate their results.
PC 3.	Ability to establish a preliminary and clinical diagnosis of the disease.
PC 4.	Ability to determine the required mode of work and rest in the treatment of diseases.
PC 5.	Ability to determine the nature of nutrition in the treatment and prevention of diseases.
PC 6.	Ability to determine the principles and nature of treatment and prevention of diseases.
PC 7.	Ability to diagnose emergencies.
PC 8.	Ability to determine the tactics of emergency medical care.
PC 9.	Ability to carry out medical and evacuation measures.
PC 10.	Ability to perform medical manipulations.
PC 11.	Ability to solve medical problems in new or unfamiliar environments with incomplete or limited information, taking into account aspects of social and ethical responsibility.
PC 12.	Ability to determine the tactics of physiological pregnancy, physiological childbirth and the postpartum period. Family planning and contraceptive counseling skills.
PC 13.	Ability to carry out sanitary and hygienic and preventive measures.
PC 14.	Ability to conduct a performance examination.
PC 15.	Ability to keep medical records, including electronic forms.
PC 16.	Ability to assess the impact of the environment, socio-economic and biological determinants on the health of the individual, family, population.
PC 17.	Ability to analyze the activities of a doctor, department, health care facility, ensure the quality of medical care and improve the efficiency of medical resources.
PC 18.	To communicate one's knowledge, conclusions and arguments on health issues and related issues to specialists and non-specialists. In particular to persons as they study.
PC 19.	Ability to develop and implement scientific and applied projects in the field of health care.
PC 20.	Adherence to ethical principles when working with patients, laboratory animals.
PC 21.	Adherence to professional and academic integrity, be responsible for the accuracy of scientific results.

Competence matrix

№	Competence	Knowledge	Skills	Communication	Autonomy and responsibility
1	2	3	4	5	6
Integral competence					
Ability to solve complex problems, including research and innovation in medicine. The ability to continue learning with a high degree of autonomy.					
General competencies					

1	Ability to abstract thinking, analysis and synthesis.	Know ways analysis, synthesis and further modern teaching	Be able to analyze information, take informed solution, be able to acquire modern knowledge	Set appropriate connections to achieve goals	Carry responsibility for timely acquiring modern knowledge
2	Ability to learn and master modern knowledge.	Know modern industry development trends and analyze them	Be able to analyze professional information, accept reasonable solutions, to acquire modern knowledge	Set appropriate connections to achieve goals	Carry responsibility for the timely acquisition of modern knowledge
3	Ability apply knowledge in practical situations	Have specializing in conceptual knowledge, acquired in the learning process	Be able to solve complex tasks and problems that arise in the activity	Understandable and unambiguous reporting of their own conclusions, knowledge and explanations that justify them to specialists and non-specialists	Be responsible for decision-making in difficult conditions
4	Knowledge and understanding of the subject area and understanding of professional activity	Know the principles of planning, know the requirements for the timing of a particular action	Be able to consistently perform your actions in accordance with the requirements for the deadlines of their implementation	Set appropriate links to achieve result	Be responsible for the appropriate procedure and timing of actions
5	Ability to adapt and act in a new situation.	Have knowledge of structure of adapt and act in a new situation.	Be able to carry out adapt and act in a new situation.and integrating knowledge	Ability effectively form communication strategy in professional activity	Bear responsibility for professional development, ability to further professional training with a high level of autonomy
6	Ability to make informed decisions	Have knowledge in in the field of information and communications, technologies that applied in professional activity	Be able to use information and communication technologies in the professional field that needs updating and integrating knowledge	Use information and communication technologies in professional activity	Be responsible for the development of professional knowledge and skills.
7	Ability to work in a team.	Have knowledge in in the field of information and communications, technologies that applied in professional activity	Be able to use information and communication technologies in the professional field that needs updating and integrating knowledge	Use information and communication technologies in professional activity	Be responsible for the development of professional knowledge and skills

8	Ability to interpersonal interaction.	Know of tactics is a strategist communication, laws and methods communicative behavior	Be able to make a reasonable decision, choose ways and strategies of communication for ensuring effective teamwork	Use strategies communication and skills interpersonal interaction	Be responsible for choice and tactics method of communication that ensures decision making
9	Ability to communicate in a foreign language.	Know the tactics and strategies of communication in a foreign language	Be able to choose ways that strategist communication for ensuring effective teamwork	Use communication strategies	Be responsible for choice and tactics of method of communication
10	Ability to use information and communication technologies.	Know to use information and communication technologies.	Be able to choose ways to use information and communication technologies.	Use skills of interpersonal interaction	Be responsible for choice and tactics method of communication
11	Ability to search, process and analyze information from various sources	Know the responsibilities and ways to set the tasks	Be able to determine the purpose and objectives, be persistent and conscientious in the performance of their duties	Establish interpersonal relationships to effectively perform task and responsibilities	Be responsible for the quality of the tasks
12	Definiteness and perseverance in terms of tasks and responsibilities	Know the problems of environmental protection	Be able to form opportunities for themselves and others to preserve the environment	Make proposals to the relevant authorities on conservation measures the environment	Be responsible for the implementation of conservation the environment measures within its competence
13	Awareness of equal opportunities and gender issues	Know the basic ethics and deontology	Be able to apply ethical and deontological norms and principles at the professional activity	Ability to convey to patients, family members, colleagues their professional position	Be responsible for ethical and deontological norms and principles at the professional activity
14	The ability to exercise own rights and responsibilities as a member of society, to realize the values of civil (free democratic) society and the need for its sustainable development, the rule of law, human rights and freedoms and the citizen of Ukraine.	Know the rules of writing and use the Ukrainian language to communicate with patients	Be able to communicate in Ukrainian with patients and colleagues	Use the Ukrainian language for documentation	Be responsible for non-compliance with the law on the state language

15	Ability to preserve and increase moral, cultural, scientific values and achievements of society based on understanding the history and patterns of development of the subject area, its place in the general system of knowledge about nature and society and in the development of society, techniques and technologies. active recreation and leading a healthy lifestyle.	Know to use information and communication technologies.	Be able to choose ways to use information and communication technologies.	Use foreign languages when communicating with patients from other countries	Be responsible for the development of professional knowledge and skills
----	--	---	---	---	---

Special (professional, subject) competences

1	Ability to collect medical information about the patient and analyze clinical data.	Know the possible complaints and the sequence of collecting information about the course of pregnancy, delivery, postpartum period	Be able to consistently collect information from the patient's words	The ability to establish interpersonal connection	Be responsible for the implementation of ethical and deontological norms
2	Ability to determine the required list of laboratory and instrumental studies and evaluate their results.	Know the physical examination of pregnant, parturients, women in labor	Be able to perform all regulated methods of examination in the appropriate sequence and evaluate the results obtained	Ability to establish connection to patient under objective examination time	Carry responsibility for correctness holding and interpretation received results on objective examination patients
3	Ability to establish a preliminary and clinical diagnosis of the disease.	Have knowledge of the clinical course of pregnancy, childbirth, postpartum period	Be able to choose and to apply appropriate scale for the clinical course of pregnancy	Use information and communication technology on professional activities	Carry responsibility for interpretation of the results obtained when evaluating the clinical course of the disease
4	Ability to determine the required mode of work and rest in the treatment of diseases.	Have specialized knowledge about to determine the required mode of work and rest in the treatment of diseases.	Be able to analyze the results of determine the required mode of work and rest in the treatment of diseases.	The ability to convey to the patient and specialist conclusions on list and results research	Carry responsibility for timeliness carrying out relevant research and interpretations received results

5	Ability to determine the nature of nutrition in the treatment and prevention of diseases	Have knowledge of the clinical manifestations of the pathological course of pregnancy	Be able to make determine the nature of nutrition in the treatment and prevention of diseases	It is reasonable to form conclusions of results .	Be responsibility for timely determine the nature of nutrition in the treatment and prevention of diseases
6	Ability to determine the principles and nature of treatment and prevention of diseases.	Have knowledge of clinical manifestations and stages of development of conditions in obstetrics	Be able to detect and diagnose in obstetrics	Use communication strategies and interpersonal skills	Be responsible for the timely identification and assessment of the emergencies of the patient
7	Ability to diagnose emergencies	Have specialized knowledge of algorithms for the treatment of emergencies conditions in obstetrics	Be able to choose the necessary set of therapeutic measures in accordance with the disease	It is reasonable to bring to the patient and specialist conclusions about the complexity of treatment. Be able to record prescriptions in medical records.	Be responsible for the timely identification and assessment of the emergencies of the patient.
8	Ability to determine the tactics of emergency medical care.	Have knowledge of the tactics of emergency medical care.	Be able to examine the patient for the determine the tactics of emergency medical care.	It is reasonable to bring to the patient recommendations on the choice of emergency medical care.	Be responsible for the results of examinations .
9.	Ability to carry out medical and evacuation measures.	Have knowledge of the tactics to carry out medical and evacuation measures.	Be able to examine the patient for the determine the tactics.	Use communication strategies and interpersonal skills.	Be responsible for the results of examinations.
10	Performing medical manipulations (conduct examination of the mammary glands, speculum examination, bimanual examination, the bacteriological and bacterioscopic examination, cytological examination ,	Have knowledge of the systems of the human body; knowledge of execution algorithms medical manipulations	Be able to perform medical procedures and manipulations according to algorithm	Reasoned formulate and bring to patients conclusions regarding necessity carrying out this or that medical	Carry responsibility for the quality of medical procedures and manipulations

	conducting pelviometry, performing internal obstetric examination, auscultation of fetal heart beats, active management of the third period of delivery)				
11.	Ability to solve medical problems in new or unfamiliar environments with incomplete or limited information, taking into account aspects of social and ethical responsibility.	Have knowledge of clinical manifestations and stages of development of conditions in obstetrics	Be able to examine the patient for the determine the tactics	Use information and communication technology on professional activities	Carry responsibility for the quality of medical procedures and manipulations
12	Ability to determine the tactics of physiological pregnancy, physiological childbirth and the postpartum period. Family planning and contraceptive counseling skills.	Have specialized knowledge of about the course of pregnancy, delivery, postpartum period. Family planning and contraceptive counseling skills	Be able to organize the appropriate tactics of physiological pregnancy, physiological childbirth and the postpartum period in department of the maternity hospital	Be able to fill in appropriate medical documentation reporting on implementation of sanitary measures epidemiological regime in department of the maternity hospital	Carry responsibility for the accuracy of laboratory and instrumental research
13	Ability to carry out sanitary and hygienic and preventive measures.	Have specialized knowledge of carry out sanitary and hygienic and preventive measures.	Be able to organize the appropriate to carry out sanitary and hygienic and preventive measures in department of the maternity hospital	Be able to fill in appropriate medical documentation reporting on implementation of sanitary measures epidemiological regime in department of the maternity hospital	Carry responsibility for sanitary and hygienic and preventive measures.
14.	Ability to conduct a performance examination.	Know how to make the correct diagnosis	Be able to make a diagnosis based on medical history, laboratory and instrumental studies	It is reasonable to inform patients and specialists about conclusions on diagnosis	Carry responsibility for the preliminary and clinical diagnosis
15	Ability to keep medical records, including electronic forms.	Know how to complete medical records	Be able to fill in medical records correctly	Be able fill in appropriate medical documentation	Carry responsibility for the prescribed mode of work and rest in the treatment of the disease

16.	Ability to assess the impact of the environment, socio-economic and biological determinants on the health of the individual, family, population.	Know how to complete medical records	Be able to fill in medical records correctly	Be able fill in appropriate medical documentation	
17	Ability to analyze the activities of a doctor, department, health care facility, ensure the quality of medical care and improve the efficiency Of medical resources..	Know how to determine the tactics of management of patients who are the subject to dispensary supervision	Be able to choose the tactics of management of patients who are the subject to dispensary supervision.	Reasonably formulate and bring to patients, relatives and specialists the need for treatment of patients who are the subject to dispensary supervision.	Carry responsibility for timely prescribing of treatment to persons who are the subject to dispensary supervision
18	To communicate one's knowledge, conclusions and arguments on health issues and related issues to specialists and non-specialists. In particular to persons as they study.	Know how to complete medical records	Be able to fill in medical records correctly	Be able fill in appropriate medical documentation	Be responsible for timely and truthful information
19	Ability to develop and implement scientific and applied projects in the field of health care.	Know how to determine the tactics of management of patients who are the subject to dispensary supervision	Be able to choose the tactics of management of patients who are the subject to dispensary supervision.	Reasonably formulate and bring to patients, relatives and specialists the need for treatment of patients who are the subject to dispensary supervision.	Carry responsibility for timely prescribing of treatment to persons who are the subject to dispensary supervision
20	Adherence to ethical principles when working with patients, laboratory animals.	Know how to conduct epidemiological and medical-statistical studies of public health; processing of state, social, economic and medical information	Be able to choose the tactics of epidemiological and medical-statistical studies of public health; processing of state, social, economic and medical information	Be able to conduct epidemiological and medical-statistical studies of public health; processing of state, social, economic and medical information	Be responsible for conducting epidemiological and medical-statistical studies of public health; processing of state, social, economic and medical information
21	Adherence to professional and academic integrity, be responsible for the accuracy of scientific results.	Know how to conduct activities for the organization and integration of medical care and marketing of medical services	Be able to choose the tactics of measures for the organization and integration of medical care and marketing of medical services	Be able to take measures to organize and integrate the provision of medical care to the population and marketing of medical services	Be responsible for the organization and integration of medical care and marketing of medical services

Learning Outcomes:

PLO 1.	Have a thorough knowledge of the structure of professional activity. Be able to carry out professional activities that require updating and integration of knowledge. Be responsible for professional development, the ability to further professional training with a high level of autonomy.
PLO 2.	Understanding and knowledge of basic and clinical biomedical sciences, at a level sufficient to solve professional problems in the field of health care.
PLO 3.	Specialized conceptual knowledge, which includes scientific achievements in the field of health care and is the basis for research, critical understanding of problems in the field of medicine and related interdisciplinary problems.
PLO 4.	Identify and identify the leading clinical symptoms or syndromes (according to list 1), according to standard methods, using preliminary history of the patient, examination data, knowledge about the person, his organs and systems. Establish a preliminary clinical diagnosis of the disease (according to list 2).
PLO 5.	Collect complaints, anamnesis of life and disease, assess the psychomotor and physical development of the patient, the condition of organs in body systems, based on the results of laboratory and instrumental studies to assess information about the diagnosis (list 4). Taking into account the patient's age.
PLO 6.	Evaluate information about the diagnosis using a standard procedure based on the results of laboratory and instrumental studies.
PLO 7.	Establish a final clinical diagnosis by making an informed decision and analysis of the obtained subjective and objective data of clinical, additional examination, differential diagnosis, adhering to the relevant ethical and legal norms, under the supervision of a physician-manager in a health care facility (list 2).
PLO 8.	Prescribe and analyze additional (mandatory and optional) methods of examination (laboratory, functional and/or instrumental) (according to list 4) of patients with diseases of organs and systems of the body for differential diagnosis of diseases (according to list 2). Carry out differential diagnosis of diseases. Establish a preliminary and clinical diagnosis.
PLO 9.	Determine the main clinical syndrome or the severity of the victim's condition (according to list 3) by making an informed decision and assessing the person's condition under any circumstances (in a health care facility, outside it), including in conditions of emergency and hostilities, in the field, in conditions of lack of information and limited time.
PLO 10.	Determine the nature and principles of treatment of patients (conservative, operative) with diseases (according to list 2), taking into account the age of the patient, in a health care facility, outside it and at the stages of medical evacuation, including in the field, on the basis of a preliminary clinical diagnosis, adhering to the relevant ethical and legal norms, by making an informed decision on existing algorithms and standard schemes, if necessary to expand the standard scheme to be able to justify personalized recommendations under the supervision of a physician.
PLO 11.	Determine the necessary mode of work, rest and nutrition on the basis of the final clinical diagnosis, adhering to the relevant ethical and legal norms, by making an informed decision according to existing algorithms and standard schemes.
PLO 12.	Determine the approach, plan and tactics of physiological pregnancy, physiological childbirth and the postpartum period by making an informed decision according to existing algorithms and standard schemes.
PLO 13.	Assess the general condition of the newborn child by making an informed decision

	according to existing algorithms and standard schemes, adhering to the relevant ethical and legal norms.
PLO 14.	Assess and monitor the child's development, provide recommendations for breastfeeding and nutrition depending on age, organize preventive vaccinations on the calendar.
PLO 15.	Identify tactics and provide emergency medical care in emergencies (according to list 3) for a limited time in accordance with existing clinical protocols and treatment standards.
PLO 16.	Organize the provision of medical care and medical and evacuation measures to the population and servicemen in emergencies and hostilities, including in the field.
PLO 17.	To form rational medical routes of patients; to organize interaction with colleagues in the and other establishments, the organizations and establishments; to apply tools for the promotion of medical services on the market, based on the analysis of the needs of the population, in the conditions of functioning of the health care institution, its subdivision, in a competitive environment.
PLO 18.	Perform medical manipulations (according to list 5) in a medical institution, at home or at work on the basis of a previous clinical diagnosis and / or indicators of the patient's condition by making an informed decision, adhering to the relevant ethical and legal norms.
PLO 19.	Determine the state of functioning and limitations of a person's life and duration of incapacity for work with the relevant documents, in a health care facility on the basis of data on the disease and its course, features of professional activity, etc. Maintain medical records of the patient and the population on the basis of regulations.
PLO 20.	Analyze the epidemiological situation and carry out measures of mass and individual, general and local prevention of infectious diseases.
PLO 21.	Search for the necessary information in the professional literature and databases of other sources, analyze, evaluate and apply this information.
PLO 22.	Apply modern digital technologies, specialized software, statistical methods of data analysis to solve complex health problems.
PLO 23.	Assess the impact of the environment on human health to assess the incidence of the population.
PLO 24.	Organize the necessary level of individual safety (own and those cared for) in case of typical dangerous situations in the individual field of activity.
PLO 25.	Clearly and unambiguously communicate their knowledge, conclusions and arguments on health issues and related issues to professionals and non-specialists.
PLO 26.	Communicate fluently in the state and English languages, both orally and in writing, to discuss professional activities, research and projects.
PLO 27.	in, organize and conduct activities for the specific prevention of infectious diseases, including in accordance with the National Calendar of preventive vaccinations, both mandatory and recommended. Manage vaccine residues, organize additional vaccination campaigns, including immunoprophylaxis measures.

Reference to the competency matrix code	The content of the learning outcome
<i>Symbol of the Program Outcome (PR) code in the</i>	<i>Learning outcomes determine that the student must know, understand and be able to perform, after completing the discipline.</i>

<i>Higher Education Standard</i>	<i>Learning outcomes follow from the set learning goals. To enroll in the discipline, it is necessary to confirm the achievement of each learning outcome.</i>
<i>PR-1</i>	Collect complaints about the patient, medical history, life history, conduct and evaluate the results of physical examination.
<i>PR-2</i>	Evaluate information about the diagnosis using a standard procedure based on the results of laboratory and instrumental studies.
<i>PR-3</i>	Highlight the leading clinical symptom or syndrome. Establish the most probable or syndromic diagnosis of the disease. Assign laboratory and / or instrumental examination of the patient. Carry out differential diagnosis of diseases. Establish a preliminary and clinical diagnosis.
<i>PR-4</i>	Determine the necessary mode of work and rest in the treatment of the disease.
<i>PR-5</i>	Determine the necessary therapeutic nutrition in the treatment of the disease.
<i>PR-6</i>	Determine the principles and nature of treatment (conservative, operative) disease.
<i>PR-7</i>	Determine the tactics of emergency medical care based on the diagnosis of emergency.
<i>PR-8</i>	Provide emergency medical care based on an emergency diagnosis.
<i>PR-10</i>	Determine the tactics of physiological pregnancy, physiological childbirth and the postpartum period. Advise on family planning and contraceptive selection.
<i>PR-11</i>	Perform medical manipulations.
<i>PR -12</i>	Prepare an annual report on personal production activities; keep medical records of the patient and the population.
<i>PR-16</i>	Form goals and determine the structure of personal activities.
<i>PR-17</i>	Adhere to a healthy lifestyle, use the techniques of self-regulation and self-control.
<i>PR-18</i>	To be aware of and guided in their activities by civil rights, freedoms and responsibilities, to raise the general educational and cultural level.
<i>PR-19</i>	Adhere to the requirements of ethics, bioethics and deontology in their professional activities.
<i>PR-20</i>	Organize the necessary level of individual safety (one's own and those cared for) in the event of typical dangerous situations in the individual field of activity.
<i>PR-21</i>	To form dispensary groups of patients among the fixed contingent of the population; groups of healthy people subject to dispensary supervision. Implement a system of anti-epidemic and preventive measures within the framework of primary health care. Implement a system of primary prevention measures within the primary health care. Organize secondary and tertiary prevention measures among the assigned contingent of the population
<i>PR-22</i>	Plan measures to prevent the spread of infectious diseases. Carry out detection and early diagnosis of infectious diseases; primary anti-epidemic measures in the center of an infectious disease. Identify risk groups, risk areas, time of risk, risk factors and carry out epidemiological analysis of infectious diseases in the population.
<i>PR-23</i>	To determine the tactics of examination and secondary prevention of patients subject to dispensary supervision; tactics of examination and primary prevention of healthy persons subject to dispensary supervision; calculate and prescribe the necessary food for children in the first year of life.

<i>PR-24</i>	Determine the presence and degree of restrictions on life, type, degree and duration of disability with the execution of relevant documents.
<i>PR-25</i>	Organize the necessary level of individual safety (own and persons cared for) in case of typical dangerous situations in the individual field of activity.

Information volume of the discipline.

To study the discipline "Endoscopy technologies in obstetrics and gynecology" on 5 courses assigned 2 credits ECTS (60 hours).

PROGRAM CONTENT

Topic 1. History of laparoscopy. Fundamental principles of laparoscopic intervention, tools.

History of laparoscopy .Stages of development of endoscopy. Basic principles of laparoscopic intervention. Knowledge about instruments for laparoscopic surgery, technical implementation of trocars and safety .

Topic 2. Laparoscopic anatomy of the small pelvis. Diagnostic laparoscopy.

Knows about laparoscopic anatomy of the organs of the small pelvis. Basic indications for intervention for diagnostic laparoscopy.

Topic 3. Preoperative preparation. Laparoscopy technique, complications and methods of their elimination. Postoperative management of patients.

Indications and contraindications to diagnostic and operational laparoscopy. Requirements for medical equipment .Principles of using of chemical energy.

Technical aspects of laparoscopy. Basics of laparoscopic surgery, possible complications.

Postoperative management of patients.

Types of complications . Pneumoperitoneum and complications when entering the needle Veresha and trocars.

Prevention of injury to the vessels at the entrance of the trocar. Tactics in case of internal bleeding.

Topic 4. Laparoscopy in the case of ectopic pregnancy.

Laparoscopy in case of ectopic pregnancy. Diagnostic, operative laparoscopy.

Advantages of the procedures, technique of execution.

Topic 5. Laparoscopy on the uterine appendages. Treatment of cysts . Laparoscopic sterilization.

Indications for laparoscopic operations on ovaries: tumors , polycystic ovary syndrome, apoplexy of the ovaries, torsion of ovarian tumor crus .

Features of laparoscopy in pregnant women with tumors..

Laparoscopic operations in the case of inflammatory diseases of the uterine appendages .

Laparoscopic sterilization.

Indications for laparoscopic sterilization. Preparation, production and methods of laparoscopic sterilization.

Topic 6. Laparoscopic myomectomy, hysterectomy.

Laparoscopic myomectomy. Indications for myomectomy , the protection of the reproductive

function of life. Laparoscopic hysterectomy. Indications for laparoscopic hysterectomy. Basic stages of total laparoscopic hysterectomy.

Topic 7. The role of laparoscopy in treatment of infertility and endometriosis.

The structure of the infertility , that needs endosurgical correction. Indications, contraindications before the reconstruction operations on the fallopian tubes. The principles of reconstructive surgery.

The frequency of endometriosis , the main theory of endometriosis. Form of endometriosis, which should be done to the genital endometriosis. Diagnostics, tactics.

Topic 8. Technical aspects of hysteroscopy.

Indications for hysteroscopy, complications of hysteroscopy and it`s treatment.

Topic 9. Office hysteroscopy.

Office hysteroscopy, especially conducted.

Cause diagnostic mistakes.

Topic 10. Hysteroresectoscopy.

Hysteroresectoscopy is a special way to carry out, indications, prevention.

Topic 11. Endoscopy in diagnostics and chronic pelvic pain syndrome.

Syndrome of chronic pelvic pain. Laparoscopy in diagnostics and treatment SHPP. Adhesion procession of pelvic organs.

Topic 12. Endoscopic interventions during pregnancy.

Fetoscopy. Use of endoscopic technologies in feto-fetal transfusion syndrome, isoserological incompatibility, IUGR, fetal maldevelopment .Chorionic villus sampling, amniocentesis, placentocentesis, cordocentesis and fetal skin biopsy. Tumors of the ovaries and pregnancy. Indications and special technologies for conducting operative laparoscopy during pregnancy.

Topic 13. Colposcopy, this role in the pathology of the cervix.

Features of carrying out the colposcopy of the pathology of the cervix.

Structure of academic discipline

Subject	Lectures	Practical class	SIW
Topic 1. History of Laparoscopy. Fundamental principles of laparoscopic intervention, tools.	-	2	3
Topic 2. Laparoscopic anatomy of the small pelvis. Diagnostic laparoscopy.	-	2	3
Topic 3. Preoperative preparation. Laparoscopy technique, complications and methods of their elimination. Postoperative management of patients.	-	2	3
Topic 4. Laparoscopy in the case of ectopic pregnancy.	-	2	2

Topic 5. Laparoscopy on the uterine appendages. Treatment of cysts . Laparoscopic sterilization.	-	2	3
Topic 6. Laparoscopic myomectomy, hysterectomy.	-	2	3
Topic 7. The role of laparoscopy in treatment of infertility and endometriosis.	-	2	3
Topic 8. Technical aspects of hysteroscopy.	-	2	2
Topic 9. Office hysteroscopy.	-	2	2
Topic 10. Hysteroresectoscopy.	-	2	2
Topic 11. Endoscopy in diagnostics and chronic pelvic pain syndrome.	-	2	2
Topic 12. Endoscopic interventions during pregnancy.	-	2	3
Topic 13. Colposcopy, this role in the pathology of the cervix.	-	2	3
Total: 60 huors,2 credits	-	26	34

THEMATIC PLAN OF PRACTICAL CLASSES

N o	Theme	Hours
1.	History of Laparoscopy. Fundamental principles of laparoscopic intervention, tools.	2
2.	Laparoscopic anatomy of the small pelvis.Diagnostic laparoscopy.	2
3.	Preoperative preparation.Laparoscopy technique,complications and methods of their elimination. Postoperative management of patients.	2
4.	Laparoscopy in the case of ectopic pregnancy.	2
5.	Laparoscopy on the uterine appendages.Treatment of cysts . Laparoscopic sterilization.	2
6.	Laparoscopic miomectomy, hysterectomy.	2
7.	The role of laparoscopy in treatment of infertility and endometriosis.	2
8.	Technical aspects of hysteroscopy.	2

9.	Office hysteroscopy.	2
10.	Hysteroresectoscopy.	2
11.	Endoscopy in diagnostics and chronic pelvic pain syndrome.	2
12.	Endoscopic interventions during pregnancy	2
13.	Colposcopy, this role in the pathology of the cervix.	2
	Total	26

THEMATIC PLAN OF STUDENTS INDIVIDUAL WORK

No	SIW Topic	Hours
1.	History of Laparoscopy. Fundamental principles of laparoscopic intervention, tools.	3
2.	Laparoscopic anatomy of the small pelvis. Diagnostic laparoscopy.	3
3.	Preoperative preparation.Laparoscopy technique,complications and methods of their elimination. Postoperative management of patients.	3
4.	Laparoscopy in the case of ectopic pregnancy.	2
5.	Laparoscopy on the uterine appendages.Treatment of cysts . Laparoscopic sterilization.	3
6.	Laparoscopic miomectomy, hysterectomy.	3
7.	The role of laparoscopy in treatment of infertility and endometriosis.	3
8.	Technical aspects of hysteroscopy.	2
9.	Offise hysteroscopy.	2
10.	Hysteroresectoscopy.	2
11.	Endoscopy in diagnostics and chronic pelvic pain syndrome.	2
12.	Endoscopic interventions during pregnancy	3
13.	Colposcopy, this role in the pathology of the cervix.	3
	Total	34

Types of independent work and control.

It is the responsibility of the independent work to be able to take advantage of the practical ones to take care of the singing and the preparation to the practical ones to take up for the additional recommended literature and methodical recommendations of the IW.

LIST OF PRACTICAL SKILLS FOR FINAL CONTROL

"Endoscopy technologies in obstetrics and gynecology"

1. Algorithm emergency care in ectopic pregnancy .
2. Assistance algorithm in tubal infertility depending on the condition of the fallopian tubes..
3. Algorithm for the introduction of women with leiomyom.
4. Algorithm for examination and treatment of infertility.
5. Evaluation of results of diagnostics laparoscopy.
6. Evaluation of the results of diagnostic hysteroscopy.
7. Evaluation results of diagnostic colposcopy.
8. Endoscopy diagnosis.

12. Control methods.

Types of control - current and final.

Form of final control in accordance with the curriculum: scoring.

Current control is carried out at each practical lesson in accordance with specific goals on each topic.

Evaluation of current academic **activity:** During the assessment of the assimilation of each topic for the current activity students are assessed on a 4-point (traditional) scale, taking into account the approved evaluation criteria for the relevant discipline.

Criteria for assessing the current educational activities of the student

Students' knowledge is evaluated both in theoretical and practical training according to the following criteria:

Excellent ("5") – The student correctly answered 90-100% of A-format tests. Correctly, clearly logically and fully answers all standardized questions of the current topic, including the issues of lecture course and independent work.

Good ("4") - The student correctly answered 70-89% of tests format A. Correctly and essentially answers standardized questions of the current topic, lecture course and independent work.

Satisfactory ("3") – The student correctly answered 50-69% of tests format A. Incompletely, with the help of additional questions, answers standardized questions of current activity, lecture course and independent work.

Unsatisfactory ("2") - The student correctly answered less than 50% of the tests format A. Does not know the material of the current topic, can not build a logical answer, does not answer additional questions, does not understand the content of the material.

The form of the final control of the success of training - exam.

Scheme of points accrual and distribution of points that students receives:

For disciplines, the form of final control of which is the scoring:

The maximum number of points a student can score for current academic activity during the semester is 120 points.

The minimum number of points a student must score for current academic activity during the semester is 72 points.

The calculation of the number of points is based on the student's score on a 4-point (national) scale during the study of the discipline, by calculating the arithmetic mean (MA), rounded to two decimal places. The obtained value is converted into points on a multi-point scale as follows: $x = MA \times 120/5$. For convenience, a table of recalculation on a 200-point scale:

Recalculation of the average score for current activities into a multi-point scale (final control-scoring)

4- Score scale	200- Score scale	4- Score scale	200- Score scale	4- Score scale	200- Score scale	4- Score scale	200- Score scale
5	120	4,45	107	3,91	94	3,37	81
4	119	4,41	106	3,87	93	3,33	80
4	118	4,37	105	3,83	92	3,29	79
4	117	4,33	104	3,79	91	3,25	78
4	116	4,29	103	3,75	90	3,2	77
4	115	4,25	102	3,7	89	3,16	76
4	114	4,2	101	3,66	88	3,12	75
4	113	4,16	100	3,62	87	3,08	74
4	112	4,12	99	3,58	86	3,04	73
4	111	4,08	98	3,54	85	3,99	72
4	110	4,04	97	3,49	84	Less 3	Not enough
4	109	3,99	96	3,45	83		
4	108	3,95	95	3,41	82		

Students' independent work is assessed during the constant control of the topic in the relevant lesson. Assimilation of topics that are submitted only for independent work is controlled by the final control.

13. Forms of final control of learning success

Final control is carried out in order to assess learning outcomes at a certain educational and qualification level and at some of its completed stages on a national scale and ECTS scale. Final control includes semester control and student certification.

The exam is a form of final control of the student's assimilation of theoretical and practical material from a separate discipline for the semester, which is held as a control event. A student is considered to be admitted to the semester exam in the discipline if he attended all classes provided by the curriculum in the discipline, performed all types of work provided by the work program of this discipline and during its study during the semester scored at least the minimum (72 points).

The exam is passed (in writing form) during the examination session, according to the schedule. The form of the examination should be standardized and include control of theoretical and practical training.

Criteria for assessing the exam in the discipline "Obstetrics and Gynecology"

The exam in the discipline of Obstetrics and Gynecology includes 80 test tasks, covering materials of the discipline of Obstetrics and Gynecology for 4th and 5th year. Each test task is evaluated in 1 point.

The maximum number of points that a student can score when taking the exam is 80.
The minimum number of points in the exam - not less than 50.

14. Scheme of accrual and distribution of points received by students

The grade for the discipline that ends with the exam is defined as the sum of points for the current educational activity (not less than 72) and points for the exam (not less than 50). The scores of students studying in one specialty, taking into account the number of points scored in the discipline are ranked on the ECTS scale as follows:

ECTS score Statistical indicator	Statistical indicator
A	The best 10 % of students
B	The next 25% of students
C	The next 30% of students
D	The next 25% of students
E	The last 10% of students

Ranking with the assignment of grades "A", "B", "C", "D", "E" is carried out by the dean's office or other structural unit by decision of the Academic Council educational department for students of this course who study in one specialty and successfully completed the discipline . According to the decision of the Academic Council, it is recommended to rank students - citizens of foreign countries in the same array with students - citizens of Ukraine who study in the same specialty. With the permission of the rector, the student can increase the grade in the discipline by rearranging the final control (not more than three times during the entire period of study). Discipline scores for students who have successfully completed the program are converted into a traditional 4-point scale according to the absolute criteria, which are given in the table below:

Points	Оцінка за 4-ри бальною шкалою
170 - 200 points	5
140 - 169 points	4
From 139 points to the minimum number of points that a student must score	3
Below the minimum number of points that a student must score	2

The ECTS score is NOT converted to the traditional four-point scale, as the ECTS scale and the four-point scale are independent.

Multi-point and four-point scales characterize the actual success of each student in mastering the discipline. The ECTS scale is relative, comparative, rating, which establishes the student's belonging to the group of the best or worst among the reference group of classmates (faculty, specialty). Therefore, the grade "A" on the scale can not be equal to the grade "excellent", and the grade "B" - the grade "good" and so on. As a rule, when converting from a multi-point scale, the limits of grades "A", "B", "C", "D", "E" on the ECTS scale do not coincide with the limits of grades "5", "4", "3" on the traditional scale.

The objectivity of the assessment of students' learning activities is checked by statistical methods (correlation coefficient between ECTS assessment and assessment on a national scale).

15. Methodical support

Educational content:

- synopsis or extended lecture plan
- plans for practical classes
- tasks for independent work
- guidelines / recommendations for students and teachers
- algorithms for treatment and emergency care (according to the standards of evidence-based medicine)
- algorithms for performing skills practices, medical manipulations, videos
- results of laboratory and instrumental research methods
- dummies, phantoms, etc.
- simulators, electronic reference books, computers with appropriate information support
- questions, tasks, cases for current and final control.

16. Recommended references

Basic

1. Акушерство та гінекологія: У 4 т.: національний підручник / Кол. авторів; за ред. акад. НАМН України, проф. В.М. Запорожана. Т.1: Акушерство / В.М. Запорожан, В.К. Чайка, Л.Б. Маркін та ін.; за ред. акад. НАМН України, проф. В.М. Запорожана. К.:ВСВ " Медицина ", 2013. 1032с.
2. Акушерство і гінекологія: у 2 книгах. Книга 1. Акушерство: підручник / В.І. Грищенко, М.О. Щербина, Б.М. Венцківський та ін. — 4-е видання. К.: Медицина, 2020. 424 с.
3. Клінічне акушерство та гінекологія: 4-е видання / Браян А. Магован, Філіп Оуен, Ендрю Томпсон. – 2021. – ВСВ «Медицина». – 512 с.
4. Markin L.V., Shatylovych K.L. Intercurrent diseases during pregnancy and delivery: textbook. Lviv: LA Pyramid, 2023, 388 p.
5. Маркін Л.Б., Шахова О.В. та співавт. Мала студентська енциклопедія з акушерства та гінекології. – 2014. – Львів, Посвіт

Additional

1. Невідкладні стани в акушерстві: навчальний посібник (Венцківський Б.М., Камінський В.В., Грищенко В.І. та ін.).- К.:Золотые ворота, 2010.-246 с.
2. Emergencies in obstetrics and gynecology / L.Markin, O.Medvyedyeva, O.Matviyenko. – Lviv: ЗУКЦ, 2018. – 160 p.
3. Доброякісні пухлини матки та яєчників у вагітних. Маркін Л.Б., Бойчук А.В., Шатилович К.Л., – Львів, 2016. – 84 с.
4. Pragmatic obstetrics and gynecology: підручник англійською мовою Markin L.V., Zimenkovsky A.V., Podolskyi Vol.V. and other, LNMU name after Danylo Halysky, 2021.-236 p.
5. Маркін Л.Б., Маляр В.В. Ідіопатичне маловоддя та багатоводдя: Монографія / Л.Б.Маркін, В.В.Маляр. – Ужгород: Поліграфцентр «Ліра», 2019. – 218 с.
6. Modern aspects of obstetrics and gynecology / L.Markin, O.Matviyenko, S.Markin, V.Flud. – Lviv: Літературна агенція «ППРАМІДА», 2022. – 212 p.
7. Діючі «Клінічні протоколи» затверджені наказом МОЗ України з акушерства і гінекології
8. Williams Obstetrics by F.Gary Cunningham.25th edition: 2018-McGraw-Hill Education.-1344p.

17.Information resources

1. <http://misa.meduniv.lviv.ua/course/index.php?categoryid=18>
2. <https://moz.gov.ua/nakazi-moz>
3. <https://www.facebook.com/search/top?q=progress>

