

**Syllabus of the elective course
"Endoscopic technologies in obstetrics and gynecology"**

1. General information	
Name of the faculty	Medical Faculty №1, №2
Educational program (branch, specialty, level of higher education, form of education)	22 Healthcare, 222 Medicine, second (master's) level of higher education, full-time
Academic year	2021-2022
Name of the discipline, code (e-mail address on the website of Danylo Haltskyi LNMU)	Endoscopic technologies in obstetrics and gynecology WB 2.42. new.meduniv.lviv.ua / kafedry / kafedra-akusherstva-i-ginekologiyi /
Department (name, address, phone, e-mail)	Department of Obstetrics and Gynecology 79008 Lviv, Rapoport Street, 8 E-mail: Kaf_obstetrics@meduniv.lviv.ua
Head of the department (contact e-mail)	Professor, Corresponding Member of the National Academy of Medical Sciences of Ukraine Markin L.B. Kaf_obstetrics@meduniv.lviv.ua
Year of study (year in which the study of the discipline)	5
Semester (semester in which the study of the discipline is implemented)	IX, X
Type of discipline / module (compulsory / optional)	Selective
Teachers (names, surnames, scientific degrees and titles of teachers who teach the discipline, contact e-mail)	Associate Professor Matviyenko O.O.
Erasmus yes / no (availability of the discipline for students within the Erasmus + program)	-
Person responsible for the syllabus (person to be commented on the syllabus, contact e-mail)	Matviyenko O.O.
Number of ECTS credits	1
Number of hours (lectures / practical classes / independent work of students)	20 (practical classes - 10, independent work of students - 10)
Language of instruction	Ukrainian, English
Address, telephone and rules of operation of the clinical base, office... (if necessary)	KNP "Maternity Clinical House №1 m. Lviv", Mechnikova st., 8 (round the clock); tel. + 380 (32) 75- 93 - 13
2. Short annotation to the course	
The subject of study of the elective course "Endoscopic technologies in obstetrics and gynecology" for higher medical educational institutions of Ukr	

aine III-I V levelsof accreditationinthe specialties "Medical business" 7.12.010001, "Pediatrics" 7.12.010002, " Medical and preventive affairs" 7.12010003 directionof training 1201 " Medicine" istheacquisitionofknowledgeandskillstosolveprofessionalproblemsandprovideemergency carein extreme conditionsinobstetricsandgynecology. Thecurrentstateofthedemographicsituationin Ukrainerequires a moderndoctortostudyendoscopiesinobstetricsandgynecology, inordertopreserve women's reproductive health andsuccessful family planning .

3. The purpose and objectives of the course

1. The purpose of teaching the elective course

"Endoscopic technologies in obstetrics and gynecology" is: to acquire knowledge about the development of endoscopic techniques, which allowed to go from a simple visual examination of the abdomen and pelvis to perform complex surgeries on the uterus, uterine appendages, and in recent years on the fetus; ability to analyze the obstetrics situation and surgical risks of a gynecological patient. The program of the elective course is developed taking into account the principles of evidence-based medicine and on the basis of standards of medical care in obstetrics and gynecology. The ultimate goal of the elective course "Endoscopic technologies in obstetrics and gynecology" are based on the educational goal defined in the educational-professional program (OPP).

2. Learning objectives: to teach the student to interpret the clinical anatomy of women genital and physiology of the reproductive system; make a preliminary diagnosis of major diseases of the female reproductive system that require endoscopic intervention for diagnosis, treatment, examination planning and management of the patient, know the preoperative preparation and management of patients in the postoperative period during endoscopic operations; identify the main types and stages of endoscopic interventions in obstetrics and gynecology; teach the student to anticipate and provide emergency endoscopic care for complications in obstetrics and gynecology.

2. Competencies:

- integrated :

the ability to solve complex problems and practical problems in the field of professional activities 22 "Health", which involves the application of certain theoretical knowledge, practical skills and methods of endoscopic interventions ;

-general :

1. Ability to abstract thinking, analysis and synthesis.
2. Ability to learn and master modern knowledge of endoscopic technologies
3. Ability to apply knowledge in practical situations
4. Knowledge and understanding of the subject area and understanding of professional activity.
5. Ability to adapt and act in a new situation
6. Ability to make informed decisions
7. Ability to work in a team
8. Interpersonal skills.
9. Ability to communicate in the state language both orally and in writing;
10. Ability to communicate in a foreign language.
11. Skills in the use of endoscopic technologies.
12. Definiteness and persistence in relation to the set tasks and responsibilities
13. The ability to act socially responsibly and consciously
14. Ability to act on the basis of ethical considerations (motives).

-special (professional, subject):

1. Skills of interviewing and clinical examination of the patient.
2. Ability to determine the required list of laboratory and endoscopic examinations and assessments
3. their results.

4. Ability to establish a preliminary and clinical diagnosis of the disease
5. Determine the required mode of work and rest
6. Ability to endoscopically diagnose emergencies in obstetrics and gynecology.
7. Treatment of diseases.
8. Ability to provide emergency endoscopic medical care.
9. Skills of providing emergency endoscopic medical care
10. Skills to perform medical endoscopic manipulations.
11. Quality of medical records.

Expected learning outcomes:

1. Demonstrate the continuous development of one's own intellectual, professional and cultural level of self-realization as a future doctor.
2. The student must assess clinical manifestations, know modern methods of laboratory and endoscopic
3. diagnostics of emergencies in obstetrics and gynecology and to appoint reasonably
4. treatment of these conditions (ectopic pregnancy, ovarian apoplexy and others).
5. The student must explain the pathogenesis of abnormal bleeding, justify the results
6. modern endoscopic methods of diagnosis and dynamic monitoring of patients, treatment of these conditions (ectopic pregnancy, ovarian apoplexy and others).
7. Have the skills of endoscopic diagnosis, differential diagnosis and treatment of non-specific inflammatory diseases of the external and internal genital organs and sexually transmitted diseases, based on current data.
8. Able to classify septic conditions in obstetrics and gynecology, to substantiate the most informative endoscopic methods of diagnosis and treatment, to evaluate their results.
9. Have the skill to diagnose background and precancerous diseases, "acute abdomen", using modern endoscopic methods, prescribe and evaluate their treatment, using the latest evidence-based medicine.

Course prerequisites

Elective course "Endoscopic technologies in obstetrics and gynecology" is based on the knowledge gained by students in the study of medical biology, normal and pathological anatomy of topographic anatomy, normal and pathological physiology of the reproductive system, histology and embryology, infectious diseases, microbiology, pharmacology, surgical diseases, hygiene, social medicine and integrates with these disciplines

5. Program learning outcomes

1. Be able to collect data on the patient's complaints, medical history, life history, conduct and evaluate the results of endoscopic examination.
2. Evaluate information about the diagnosis using a standard procedure based on the results of laboratory and endoscopic examinations.
3. Highlight the leading clinical symptoms syndrome. Establish the most probable or syndromic diagnosis of the disease. Assign laboratory and / or endoscopic examination of the patient. Carry out differential diagnosis of diseases and establish preliminary and clinical diagnosis.
4. Determine the necessary mode of work and rest in the treatment of the disease
5. To determine the principles and nature of treatment (endoscopic, operative) of the disease
6. To determine the tactics of providing emergency endoscopic medical care
7. Provide emergency endoscopic medical care on the basis of an emergency diagnosis.
8. Perform medical endoscopic manipulations
9. To be aware of and guided in their activities by civil rights, freedoms and responsibilities,

<p>toraise the general educational and cultural level.</p> <p>10. Adhere to the requirements of ethics, bioethics and deontology in their professional activities.</p> <p>11. Organize the necessary level of individual security (own and persons about whom</p> <p>12. cares) in case of typical dangerous situations in the individual field of activity.</p>		
List of learning outcomes		
Learning outcome code	The content of the learning outcome	Reference to the competency matrix code
<i>The code is created when filling in the syllabus (category: Zn-knowledge, Um-ability, K-competence, AB-autonomy and responsibility)</i>	<i>Learning outcomes determine that the student must know, understand and be able to perform, after completing the discipline. Learning outcomes follow from these learning goals. To enroll in the discipline, it is necessary to confirm the achievement of each learning outcome.</i>	Symbol of the Program Learning Outcome Code in the Higher Education Standard
<i>Zn -1</i>	Have knowledge of preoperative preparation and management of patients in the postoperative period after laparoscopic surgery.	<i>PR-1</i>
<i>UM-1</i>	Be able to prepare the patient for laparoscopic surgery (planned)	<i>PR-1</i>
<i>K-1</i>	Ability to establish contact with the patient in preparation for surgery	<i>PR-1</i>
<i>Mind-2</i>	Be able to diagnose tubal-peritoneal infertility, to make a differential diagnosis.	<i>PR-2</i>
<i>K-2</i>	Effectively form a communication strategy when communicating with the patient, to enter information about a woman's health	<i>PR-2</i>
<i>AB -2</i>	Be responsible for the quality collection of information received and timely assessment of the woman's condition	<i>PR-2</i>
<i>ZN-3</i>	Know the causes of cystic formations in pregnant women, methods of treatment	<i>PR-3</i>
<i>Mind-3</i>	Be able to diagnose cystic formations in pregnant women	<i>PR-3</i>
<i>K-3</i>	To determine the basic principles of laparoscopic treatment of patients according to the diagnosis	<i>PR-3</i>
<i>AB-3</i>	To bear personal responsibility for correctness of performance of stages of inspection, carrying out differential diagnosis at women with cystic educations	<i>PR-3</i>
<i>ZN-4</i>	Know the complications in gynecology and laparoscopy : intra- and postoperative	<i>PR-4</i>
<i>Mind-4</i>	Be able to determine the severity of complications and recognize their clinical manifestations.	<i>PR-4</i>
<i>K-4</i>	Ability to abstract thinking and analysis	<i>PR-4</i>
<i>AB-4</i>	Be responsible for the timely diagnosis of complications, first aid, their treatment	<i>PR-4</i>
<i>ZN-5</i>	Know about the safety of laparoscopic surgery	<i>PR-5</i>
<i>Mind-5</i>	Be able to assess the risks of laparoscopic surgery	<i>PR-5</i>
<i>K-5</i>	Ability to act on the basis of ethical considerations, to work in a team with colleagues and patients	<i>PR-5</i>
<i>AB-5</i>	Take personal responsibility for the correct and time	<i>PR-5</i>

	ly appointment of laparoscopic treatment			
6. Format and scope of the course				
Course format (<i>specify full-time or part-time</i>)	Eye			
Kind of occupations	Number of hours		Number of groups	
lectures	-			
practical	10			
seminars				
independent	10		2	
7. Topics and content of the course				
Codetype to borrow	Topic	Content of training	Learning outcome code	Teacher
P-1 (<i>practical lesson 1</i>)	Preoperative preparation and management of patients in the postoperative period	<ol style="list-style-type: none"> 1. Checking the assimilation of material (tests). 2. Solving situational problems. 3. Development of practical skills in conditions that are close to real. 4. Clarification of problematic issues summarizing the lesson 	ZN-1 U-1 K-1 AB-1	Docent Matviyenko O.O.
P-2	Laparoscopic operations on the appendage in tubal-peritoneal infertility	<ol style="list-style-type: none"> 1. Checking the assimilation of material (tests). 2. Solving situational problems. 3. Development of practical skills in conditions that are close to real. 4. Clarification of problematic issues summarizing the lesson 	ZN-2 U-2 K-2 AB-2	Docent Matviyenko O.O.
P-3	Laparoscopic operations on the ovaries, treatment of cystic formations in pregnant women	<ol style="list-style-type: none"> 1. Checking the assimilation of material (tests). 2. Solving situational problems. 3. Development of practical skills in conditions that are close to real. 4. 	ZN-3 U-3 K-3 AB-3	Docent Matviyenko O.O.

		Clarification of problem at ic issues summarizing the esson		
P-4	Complication singynecolog yand laparos copyare intra - andpostope rative	1. Checking the assimilation of material (tests). 2. Solving situational proble ms. 3. Development of practical kills in conditions that are cl ose to real. 4. Clarification of problem at ic issues summarizing the esson	ZN-4 U-4 K-4 AB-4	Docent Matviyenko O.O.
P-5	Improving the safety of lap aroscopic op erations	1. Checking the assimilation of material (tests). 2. Solving situational proble ms. 3. Development of practical kills in conditions that are cl ose to real. 4. Clarification of problem at ic issues summarizing the esson	ZN-5 U-5 K-5 AB-5	Docent Matviyenko O.O.
CPC-1 (independent work of stud ents)	Preoperative preparation a nd managem ent of patients in the postope rative period	Preparation for practical cl asses and study of topics co nsidered only in terms of in dependent student work, search and study of additio nal literature, creation of algorithms, structural and logical sche mes, writing essays, annotations, reports for reports on duty i n the clinic outside of practi cal classes, outside study time.	ZN-1 U-1 K-1 AB-1	Docent Matviyenko O.O.
CPC-2	Laparoscopic operations on the uterine app endages in tu bal- peritoneal inf ertility	Preparation for practical cl asses and study of topics co nsidered only in terms of in dependent student work, search and study of additio nal literature, creation of algorithms, structural and logical sche mes, writing essays,	ZN-2 U-2 K-2 AB- 2	Docent Matviyenko O.O.

		annotations, reportsforreportsondutyi ntheclinicoutsideofpracti calclasses, outsidestudytime		
CPC-3	Laparoscopic operationsont heovaries, treatmentof c ystic formati onsinpregnan twomen	Preparationforpracticalcl assesandstudyoftopic sco nsideredonlyinterms ofin dependentstudentwork, searchandstudyofadditio nalliterature, creationofalgorithms, structuralandlogicalsche mes, writingessays, annotations, reportsforreportsondutyi ntheclinicoutsideofpracti calclasses, outsidestudytime	ZN-3 U-3 K-3 AB- 3	Docent Matviyenko O.O.
CPC-4	Complication singynecolog yand laparos copy : intra- andpostopera tive	Preparationforpracticalcl assesandstudyoftopic sco nsideredonlyinterms ofin dependentstudentwork, searchandstudyofadditio nalliterature, creationofalgorithms, structuralandlogicalsche mes, writingessays, annotations, reportsforreportsondutyi ntheclinicoutsideofpracti calclasses, outsidestudytime	ZN-4 U-4 K-4 AB- 4	Docent Matviyenko O.O.
CPC-5	Improvingthesafet yof laparoscopic o perations	Preparationforpracti calclassesand study oftopic consideredo nlyinterms ofindepe ndentstudentwork, searchandstudyofad ditionalliterature, creationofalgorith s, structuralandlogical schemes, writingessays, annotations, reportsforreportson dutyintheclinicouts ideofpracticalclasses , outsidestudytime	ZN-5 U-5 K-5 AB- 5	Docent Matviyenko O.O.
Finalcontrol				
Typeoffinalcontrol		Methodsoffinalcontrol		Enrollmentcriteria
Test		Alltopicssubmittedforcurr entcontrolmustbeincluded.		<i>The maximum number of points is 200</i> <i>The minimum number of points is 122</i>

	<p>Grades are converted into points on a multi-point (200-point) scale in accordance with the procedure "Criteria and rules and procedures for evaluating the results of student learning activities"</p>		
Verification of learning outcomes			
<p>Current control Current control is carried out at each practical lesson in accordance with the specific objectives of each topic. When evaluating students' learning activities, it is necessary to give preference to standardized methods of control: testing, structured written work, structured according to the procedure of control of practical skills in conditions close to real ones. When mastering each topic for the current educational activities of the student grades are set on a 4-point traditional scale. When mastering the topic according to the traditional system, points are assigned according to the traditional system: 5 points, 4 points, 3 points, 2 points. Forms of assessment of current educational activities are standardized and include control of theoretical and practical training. During the assessment of mastering each topic for the current educational activity of the student grades are given on a 4-point (national). This takes into account all types of work provided for in the discipline program. The student must receive a grade from each topic for further conversion of grades into points on a multi-point (200-point) scale. Independent work is evaluated during the current control of the topic in the relevant lesson. Assimilation of topics that are submitted only for independent work is controlled during the final control.</p>			
Learning outcome code	Code type to borrow	Method of verification of learning outcomes	Enrollment criteria
<p>ZN-1 - ZN-5 Um-1 - UM-5 K-1 - K-5 AB-1 -AB-5</p>	<p>P-1 - P-5 CPC-1 - CPC-5</p>	<p>Oral and written questioning, solving test tasks (to control the initial and final level of knowledge), solving typical situational problems, under the control of the teacher in relevant practical skills and professional skills.</p>	<p>-5 "excellent" - the student has perfectly mastered the theoretical material of the topic of the lesson, independently performed one or another practical skill, thinks logically, uses the acquired knowledge in the analysis of the clinical situation; -4 "good" - the student has mastered the theoretical material, independently performed a particular practical skill, thinks logically, uses the acquired knowledge in the analysis of the clinical situation; -3 "satisfactory" student mainly has theoretical material, but does not answer convincingly, confuses concepts, additional questions cause uncertainty, makes gross mistakes in per</p>

			forming practical skills; -2 "unsatisfactory" - the student does not have the oretical material on the topic, does not know the definitions, no thinking, practical skills.
<p>The calculation of the number of points is based on the grades obtained by the student on a 4-point (national) scale during the study of the discipline, by calculating the arithmetic mean (CA), rounded to two decimal places. The resulting value is converted into points on a multi-points scale as follows: $x = \frac{CA \times 120}{5}$</p>			
9. Course policy			
<p>Elective course "Endoscopic technologies in obstetrics and gynecology" is based on the principles of science, self-development, humanism, continuity, personal and collective responsibility, collegiality and publicity of discussion of issues within its competence.</p>			
<p>Academic integrity of students in studying the course is ensured by: independent performance of current control tasks, independent work without the use of external sources of information, except for those recommended for use, in particular during the evaluation of learning outcomes; personal presence at all practical classes, except in cases caused by good reasons. Academic integrity is ensured to pedagogical staff by providing quality educational services with the use of innovative approaches in the field of education in practical professional activities; independence of professional activity from political parties, public, religious organizations; raising the professional level through self-development and self-improvement, passing course training; compliance with the rules of internal regulations, labor discipline, corporate ethics; objective and impartial evaluation of students' learning outcomes; exercising control over the observance of academic integrity by students, informing students about typical violations of academic integrity and types of liability for its violations.</p>			
10. Literature			
Basic			
<ol style="list-style-type: none"> 1. Atlas of operative gynecology . Clifford R. Willis - Moscow, Medical Literature , 2007. - 532 p. 2. Obstetrics : textbook in English (edit by IB Ventskivska) . - K .: Medicine , 2008.-334 p. 3. Gynecology : textbook in English (edit by IB Ventskivska) . - K .: Medicine , 2010.- 160 p. 			
Optional			
<ol style="list-style-type: none"> 1. Berek and Novak's Gynecology 15th Edition . Lippincott Williams and Wilkins , 2012, 1560 pp 2 2. 2DC Dutta's Textbook of Obstetrics . Hiralal Konar 708pp 2017 3 2014, 686 pp 4 3. 3DC Dutta's Textbook of Gynecology : Including Contraception Hiralal Konar 4. 4.F. Gary Cunningham , Kenneth J. Leveno , Steven L. Bloom , Catherine Y. Spong , Jodi S. Dashe , Barbara L. Hoffman , Brian M. Casey . Williams Obstetrics , 25th Edition . 2017 5. Essential Antenatal , Perinatal and Postpartum Care . WHO EURO, Copenhagen , 2003 6. Pregnancy , Childbirth , Postpartum and Newborn Care : A guide for essential practice . WHO, Geneva , 2006 			

Compiled Syllabus

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Head of Department

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