

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

<b>1. General information</b>	
<b>Name of the faculty</b>	Medical Faculty №1, №2
<b>Educational program</b> (branch, specialty, level of higher education, form of education)	22 Healthcare, 222 Medicine, second (master's) level of higher education, full-time
Academic year	2020-2021
<b>Name of the discipline, code</b> (e-mail address on the website of Danylo Halytskyi 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: <a href="mailto:Kaf_obstetrics@meduniv.lviv.ua">Kaf_obstetrics@meduniv.lviv.ua</a>
Head of the department (contact e-mail)	Professor, Corresponding Member of the National Academy of Medical Sciences of Ukraine Markin L.B. <a href="mailto:Kaf_obstetrics@meduniv.lviv.ua">Kaf_obstetrics@meduniv.lviv.ua</a>
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
<b>2. Short annotation to the course</b>	
The subject of study of the elective course "Endoscopic technologies in obstetrics and gynecology" for higher medical educational institutions of Ukraine III-I V levels of accreditation in the	

specialties "Medical business" 7.12.010001, "Pediatrics" 7.12.010002, " Medical and preventive affairs" 7.12.010003 direction of training 1201 " Medicine" is the acquisition of knowledge and skills to solve professional problems and provide emergency care in extreme conditions in obstetrics and gynecology. The current state of the demographics situation in Ukraine requires a modern doctor to study endoscopies in obstetrics and gynecology, in order to preserve women's reproductive health and successful 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 obstetric 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. Skill 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. diagnostic 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 skill 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, to raise the general educational and cultural level.

10. Adheretotherequirements ofethics, bioethicsanddeontologyintheirprofessionalactivities.  
 11. Organizethenecessarylevelofindividualsecurity (ownandpersonsaboutwhom  
 12. cares) incaseoftypicaldangeroussituationsintheindividualfieldofactivity.

**Listoflearningoutcomes**

Learningoutcomecode	Thecontentofthelearningoutcome	Referenceto the competency matrixcode
<i>Thecodeiscreatedwhenfillinginthesyllabus (category: Zn-knowledge , Um-ability, K-competence, AB -autonomyandresponsibility)</i>	<i>Learningoutcomesdeterminethatthestudentmustknow, understandandbeabletoperform, aftercompletingthediscipline. Learningoutcomesfollowfromthesetlearninggoals. Toenrollinthediscipline, itisnecessarytoconfirmtheachievementofeachlearningoutcome.</i>	SymboloftheProgram LearningOutcomeCodeintheHigherEducation Standard
<i>Zn -1</i>	Haveknowledgeof preoperative preparationand managementofpatientsinthepostoperativeperiod after laparoscopic surgery.	<i>PR-1</i>
<i>UM-1</i>	Beabletopreparethepatientfor laparoscopic surgery (planned)	<i>PR-1</i>
<i>K-1</i>	Abilitytoestablishcontactwiththepatientinpreparationforsurgery	<i>PR-1</i>
<i>Mind-2</i>	Beabletodiagnose tubal-peritoneal infertility, tomake a differentialdiagnosis.	<i>PR-2</i>
<i>K-2</i>	Effectivelyform a communicationstrategywhencommunicatingwiththepatient, toenterinformationabout a woman'shealth	<i>PR-2</i>
<i>AB -2</i>	Beresponsibleforthequalitycollectionofinformationreceivedandtimelyassessmentofthewoman'scondition	<i>PR-2</i>
<i>ZN-3</i>	Knowthecausesof cystic formationsinpregnantwomen, methodsoftreatment	<i>PR-3</i>
<i>Mind-3</i>	Beabletodiagnose cystic formationsinpregnantwomen	<i>PR-3</i>
<i>K-3</i>	Todeterminethebasicprinciplesof laparoscopic treatmentofpatientsaccordingtothediagnosis	<i>PR-3</i>
<i>AB-3</i>	Tobearpersonalresponsibilityforcorrectnessofperformanceofstagesofinspection, carryingoutdifferentialdiagnosisatwomenwith cystic educations	<i>PR-3</i>
<i>ZN-4</i>	KnowthecomPLICATIONSINGYNECOLOGYand laparoscopy : intra- andpostoperative	<i>PR-4</i>
<i>Mind-4</i>	Beabletodeterminetheseverityofcomplicationsandrecognizetheirclinicalmanifestations.	<i>PR-4</i>
<i>K-4</i>	Abilitytoabstractthinkingandanalysis	<i>PR-4</i>
<i>AB-4</i>	Beresponsibleforthetimeddiagnosisofcomplications, firstaid, theirtreatment	<i>PR-4</i>
<i>ZN-5</i>	Knowaboutthesafetyof laparoscopic surgery	<i>PR-5</i>
<i>Mind-5</i>	Beabletoassesstherisks of laparoscopic surgery	<i>PR-5</i>
<i>K-5</i>	Abilitytoactonthebasisofethicalconsiderations, toworkin a teamwithcolleaguesandpatients	<i>PR-5</i>
<i>AB-5</i>	Takepersonalresponsibilityforthe correctandtimely appointmentof laparoscopic treatment	<i>PR-5</i>

<b>6. Format and scope of the course</b>				
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	
<b>7. Topics and content of the course</b>				
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"> <li>1. Checking the assimilation of material (tests).</li> <li>2. Solving situational problems.</li> <li>3. Development of practical skills in conditions that are close to real.</li> <li>4. Clarification of problem at issue summarizing the lesson</li> </ol>	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"> <li>1. Checking the assimilation of material (tests).</li> <li>2. Solving situational problems.</li> <li>3. Development of practical skills in conditions that are close to real.</li> <li>4. Clarification of problem at issue summarizing the lesson</li> </ol>	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"> <li>1. Checking the assimilation of material (tests).</li> <li>2. Solving situational problems.</li> <li>3. Development of practical skills in conditions that are close to real.</li> <li>4. Clarification of problem at</li> </ol>	ZN-3 U-3 K-3 AB-3	Docent Matviyenko O.O.

		icissuessummarizingthel esson		
P-4	Complication singynecolog yand laparos copyare intra - andpostope rative	1. Checkingtheassimilation ofmaterial (tests). 2. Solvingsituationalproble ms. 3. Developmentofpracticals killsinconditionsthatarecl osetoreal. 4. Clarificationofproblemat icissuessummarizingthel esson	ZN-4 U-4 K-4 AB-4	Docent Matviyenko O.O.
P-5	Improvingth esafetyof lap aroscopic op erations	1. Checkingtheassimilation ofmaterial (tests). 2. Solvingsituationalproble ms. 3. Developmentofpracticals killsinconditionsthatarecl osetoreal. 4. Clarificationofproblemat icissuessummarizingthel esson	ZN-5 U-5 K-5 AB-5	Docent Matviyenko O.O.
CPC-1 (independentworkofstud ents)	Preoperative preparationa ndmanagem entofpatients inthepostope rativeperiod	Preparationforpracticalcl assesandstudyoftopic sco nsideredonlyintermsofin dependentstudentwork, searchandstudyofadditio nalliterature, creationofalgorithms, structuralandlogicalsche mes, writingessays, annotations, reportsforreportsondutyi ntheclinicoutsideofpracti calclasses, outsidestudytime.	ZN-1 U-1 K-1 AB-1	Docent Matviyenko O.O.
CPC-2	Laparoscopic operationsont he uterineapp endagesin tu bal- peritoneal inf ertility	Preparationforpracticalcl assesand studyoftopic sco nsideredonlyintermsofin dependentstudentwork, searchandstudyofadditio nalliterature, creationofalgorithms, structuralandlogicalsche mes, writingessays, annotations,	ZN-2 U-2 K-2 AB-2	Docent Matviyenko O.O.

		reports for reports on duty in the clinic outside of practical classes, outside study time		
CPC-3	Laparoscopic operations on the ovaries, treatment of cystic formations in pregnant women	Preparation for practical classes and study of topics considered only in terms of independent student work, search and study of additional literature, creation of algorithms, structural and logical schemes, writing essays, annotations, reports for reports on duty in the clinic outside of practical classes, outside study time	ZN-3 U-3 K-3 AB-3	Docent Matviyenko O.O.
CPC-4	Complications in gynecology and laparoscopy: intra- and postoperative	Preparation for practical classes and study of topics considered only in terms of independent student work, search and study of additional literature, creation of algorithms, structural and logical schemes, writing essays, annotations, reports for reports on duty in the clinic outside of practical classes, outside study time	ZN-4 U-4 K-4 AB-4	Docent Matviyenko O.O.
CPC-5	Improving the safety of laparoscopic operations	Preparation for practical classes and study of topics considered only in terms of independent student work, search and study of additional literature, creation of algorithms, structural and logical schemes, writing essays, annotations, reports for reports on duty in the clinic outside of practical classes, outside study time	ZN-5 U-5 K-5 AB-5	Docent Matviyenko O.O.
<b>Final control</b>				
Type of final control		Methods of final control	Enrollment criteria	
Test		All topics submitted for current control must be included. Grades are converted into points	<i>The maximum number of points is 200 The minimum number of points is 122</i>	

	<p>ntson a multi-point (200-point) scale in accordance with the provision "Criteria and rules and procedures for evaluating the results of student learning activities"</p>	
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**Verification of learning outcomes**

**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.

Learning outcome code	Code type to borrow	Method of verification of learning outcomes	Enrollment criteria
ZN-1 - ZN-5 Um-1 - UM-5 K-1 - K-5 AB-1 - AB-5	P-1 - P-5 CPC-1 - CPC-5	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 training relevant practical skills and professional skills.	-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 performing practical skills;



			-2 "unsatisfactory" - the student does not have the theoretical material on the topic, does not know the definitions, no thinking, practical skills.
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**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-point scale as follows:

$$x = \frac{CA \times 120}{5}$$

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### 9. Course policy

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.

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.

### 10. Literature

#### Basic

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

1. Berek and Novak's Gynecology 15th Edition . Lippincott Williams and Wilkins , 2012, 1560 pp 2
2. DC Dutta's Textbook of Obstetrics . Hiralal Konar 708pp 2017 3 2014, 686 pp 4
3. DC Dutta's Textbook of Gynecology : Including Contraception Hiralal Konar
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

Matviyenko O.O.  
PhD, Associate Professor  
obstetrics and gynecology  
LNMU named after Danylo  
Halytsky (Signature)

Head of Department

Markin Leonid Borisovich

Dr. Med. Sci., Professor  
Head of the Department of Obstetrics (Signature)  
and gynecology of LNMU  
Danylo Halytsky