

**Odessa National Medical University**  
**Medical Faculty № 1**  
**Department of Obstetrics and Gynecology**

Syllabus course  
Obstetrics and gynecology

Amount	10.5 ECTS credits, 315 hours
Semester, year of study	VII - XII semesters, 4, 5, 6 course
Days, time, place	On schedule
Teacher (s)	Teachers of the Department of Obstetrics and Gynecology
Contact phone	(048) 723-29-01
E-mail	obgyn1@onmedu.edu.ua
Workplace	Auditoriums of the Department of Obstetrics and Gynecology Odessa, street Pasteur, 9
Consultations	Thursday 14.30-16.00 Saturday 9.00-13.00

## COMMUNICATION

Communication is possible during full-time consultations (offline / Face to face), or remotely (online) with the help of Teams (by prior arrangement). Communication can also be done using E-mail. You must indicate your last name, first name, course, faculty and the name of the course. The solution of "working issues" is possible by the specified phone number.

## COURSE ANNOTATION

**The subject of the discipline** "Obstetrics and Gynecology" are methods of diagnosis, treatment and rehabilitation of gynecological patients, pregnant women, women in labor, postpartum woman and breastfeeding women, as well as methods of assistance in childbirth.

**Prerequisite of the course:** the discipline is compulsory and is based on the study by students of such fundamental disciplines as human anatomy, physiology, microbiology, virology and immunology, general surgery (with operative surgery and topographic anatomy) and integrates with surgery, oncology, emergency and urgent medical care, anesthesiology and intensive care.

**Postrequisite of the course:** lays the foundations for the study of family medicine and emergency medicine by students, provides for the integration of teaching with

these disciplines and the formation of skills to apply knowledge of obstetrics and gynecology in the process of further study and professional activities.

**The aim of the course "Obstetrics and Gynecology"** is to master higher education methods of diagnosis, treatment and rehabilitation of gynecological.

**Task:**

- master the skills of communication and clinical examination of gynecological patients, pregnant women, women in labor and postpartum woman.
- determine the list of necessary clinical, laboratory and instrumental studies and evaluate their results.
- establish a preliminary and clinical diagnosis of the disease
- determine the principles of treatment of diseases, the required mode of work and rest and the nature of nutrition.
- diagnose emergencies
- determine tactics and provide emergency medical care
- perform medical manipulations
- provide consultations on family planning, determine the tactics of physiological pregnancy, physiological childbirth and the postpartum period.
- keep medical records.

**Expected results.**

*As a result of the study, students should know:*

- basic principles of organization of obstetric and gynecological care for the population of Ukraine;
  - on the structure of a woman's body, its organs and systems; periods of physiological childbirth; methods of examination of the mother in childbirth; assessment of the condition of the fetus in childbirth; clinical course and management of physiological childbirth; stages of the postpartum period and features of its management.
  - about methods of contraception for certain categories of the population; WHO medical criteria for eligibility for contraception.

*Students must be able to:*

- Conduct consultations on family planning, determine the tactics of physiological pregnancy, physiological childbirth and the postpartum period
- Be able to determine the condition of the mother; to carry out diagnostic and tactical measures in each period of childbirth; to examine a woman in labor; assess the condition of the fetus during childbirth; to conduct the postpartum period.

- Be able to assess the patient and the necessary examination before using the contraceptive; demonstrate family planning counseling skills.
- It is reasonable to formulate and bring to the mother, relatives and specialists recommendations for the most effective delivery; provide the necessary information about changes in a woman's body in the postpartum period.
- It is reasonable to formulate and communicate to the patient, relatives and specialist's recommendations on the choice of method of contraception; provide the necessary information about changes in a woman's body while using a contraceptive.

## **COURSE DESCRIPTION**

### Forms and methods of teaching

The course will be presented in the form of lectures (20 hours) and practical classes (150 hours), organization of independent work of students (145 hours).

During the teaching of the discipline the following teaching methods will be used: verbal (lecture, conversation); visual (multimedia presentations, diagrams, tables, radiographs); practical classes with the use of mannequins, simulators and robots; method "standardized patient", work with the textbook (independent work of students), performance of individual independent tasks, solving test tasks such as "Step-2" and clinical situational tasks.

### **The content of the discipline**

#### **Section 1. Gynecology. (4th year)**

Topic 1. Organization of obstetric and gynecological services in Ukraine. The role of the family doctor in providing obstetric and gynecological care.

Topic 2. Clinical anatomy and physiology of female genital organs. Methods of examination of gynecologic patients. General symptomatology of gynecological diseases.

Topic 3. Neuroendocrine regulation of genital function. Disfunctions of the reproductive system.

Topic 4. Neuroendocrine syndromes in gynecology.

Topic 5. Benign tumors of female genital organs. Endometriosis. Breast formation.

Topic 6. Pre-cancerous diseases of the female genital organs.

Topic 7. Inflammatory diseases of female genital organs.

Topic 8. "Acute abdomen" in gynecology.

Topic 9. Infertile marriage.

Topic 10. Family planning.

## **Section 2. Obstetrics (5th year)**

Topic 11. Maternal pelvis. The fetus as an object of labor.

Topic 12. Physiology of pregnancy. Methods of examination of pregnant women. Perinatal care.

Topic 13. Physiology of labor. Analgesia of labor.

Topic 14. Physiology of the postpartum period. Physiology of the neonatal period.

Topic 15. Anomalies in the development of the fertilized egg. Multiple pregnancy.

Topic 16. Fetal distress. Intrauterine growth restriction.

Topic 17. Isoantigenic incompatibility of maternal and fetal blood.

Topic 18. Early gestosis. Hypertensive disorders during pregnancy. Pre-eclampsia. Eclampsia.

Topic 19. Miscarriage. Preterm labor.

Topic 20. Contracted pelvis. Malposition and malpresentation. Breech presentation.

Topic 21. Abnormal uterine action. Birth trauma. Operative obstetrics.

Topic 22. Ante-, intra and postpartum obstetric bleeding.

Topic 23. Postpartum septic diseases.

## **Section 3. Obstetrics and gynecology (6th year).**

Topic 24. Disorders of the menstrual function in reproductive age. Neuroendocrine syndromes in gynecology. Physiological and pathological conditions of the reproductive system at different ages.

Topic 25. Female urogynecological inflammatory diseases.

Topic 26. Benign tumors of the female genitalia. Dishormonal diseases of breasts. Endometriosis.

Topic 27. Precancerous diseases of the female genitalia. Malignant tumors of the genitalia.

Topic 28. Urgent conditions in gynecology. Surgical operations in gynecology. Preparation and postoperative care of gynaecological patients during emergency and planned operations. Prophylaxis of HIV-infecting.

Topic 29. Infertile marriage. Modern aspects of planning of a family. Methods of contraception. The criteria for the use of contraceptive methods by the WHO.

Topic 30. The physiology of pregnancy, labor and postpartum period. Perinatal protection of fetus. Pharmacotherapy in obstetrics.

Topic 31. Early gestosis. Hypertensive conditions during pregnancy. Preeclampsia. Eclampsia.

Topic 32. Premature breaking of pregnancy. Prolonged pregnancy. Multi-fetal (multiple) pregnancy.

Topic 33. Anomalies of the pelvic bone. Macrosomia in obstetrics. The disparity between the size of the fetal head and mother's pelvis. Anomalies of position of the fetus. Pelvic presentation of the fetus. Anomalies of the contraction activity of the uterus. Birth and maternal traumatism.

Topic 34. Obstetrical bleedings during pregnancy, during labor and in the postnatal period. Hemorrhagic shock. DIC - syndrome. Intensive therapy and resuscitation during bleeding in obstetrics.

Topic 35. Pregnancy and labor of women with extragenital diseases. Perinatal infections. Prophylaxis to prevent vertical HIV transmission.

Topic 36. Placental dysfunction, hypotrophy of the fetus, fetal distress symptoms. Anomalies of development of fertilized ovum.

Topic 37. Operative obstetrics. Postnatal septic diseases.

### **List of recommended literature**

#### **Main literature:**

1.Zaporozhan V.M., Mishchenko V.P. Obstetrics and gynaecology in 2 Books : Book 1 : Obstetrics, 2007. – 373 pp.

2.Williams Manual of Obstetrics (24th Ed) F. G. Cunningham, K. J. Leveno, S. L. Bloom, C. Y. Spong, J. S. Dashe, B. L. Hoffman, B. M. Casey, J. S. Sheffield, McGraw-Hill Education/Medical. – 2014. – 1377 pp.

3.Textbook of Gynecology (6th Ed) Dutta DC., Hiralal Konar (Ed.). – JAYPEE BROTHERS MEDICAL PUBLISHERS (P) LTD, 2013. – 702 pp.

4.DC Duttas Textbook of Obstetrics including Perinatology and Contraception (8th Ed.) Dutta DC., Hiralal Konar (Ed.). – JAYPEE BROTHERS MEDICAL PUBLISHERS (P) LTD, 2015. – 782 pp.

5.Llewellyn-Jones Fundamentals of Obstetrics and Gynaecology (10th Ed). Jeremy Oats, Suzanne Abraham. Elsevier. 2016. – 384 pp.

6.The FIGO Textbook of Pregnancy Hypertension. An evidence-based guide to monitoring, prevention and management. L. A. Magee, P. Dadelszen, W. Stones, M. Mathai (Eds), The Global Library of Women's Medicine. – 2016. – 456 pp.

7.Mayo Clinic Guide to a Healthy Pregnancy. Roger W. Harms (Ed). Rosetta books, 2011. – 612 pp.

8. Basic Science in Obstetrics and Gynaecology / edited by Philip Bennet, Catherine Williamson. 4th Edition. 2010, Churchill Livingstone Elsevier. – 386 pp.

**Additional literature:**

1. Maternal-Fetal Medicine. Creasy R.K., Resnik R – 2009. – 1296 pp.
2. Gibbs R. S., Karlan B. Y., Haney A. F., Nygaard I. E. Danforth's Obstetrics and Gynecology (10th Ed). - Lippincott Williams & Wilkins. – 2008. – 2225 pp.
3. CTG Made Easy / edited by Susan Gauge, Christine Henderson. 3rd Edition, 2009.- Elsevier Churchill Livingstone. – 280 pp.
4. Obstetrics: Normal and Problem Pregnancies, 7th Edition S. Gabbe, J. R. Niebyl, J. L. Simpson, M. B. Landon, H. L. Galan, E. R. M. Jauniaux, D. A. Driscoll, V. Berghella and W. A. Grobman, Elsevier. – 2017. – 1320 pp.
5. Obstetrics by Ten Teachers (20th ed) Louise C. Kenny, Jenny E. Myers. – CRC Press. – 2017. – 342 pp.
6. Current Progress in Obstetrics and Gynaecology. Vol 4. Eds. J. Studd, Seang Lin Tan, F. Chervenak. – 2017. – 419 pp.
7. Recent Advances in Obstetrics and Gynaecology. Vol 26. W. Ledger, J. Clark. – JP Medical. – 2015. – 230 pp.
8. Proactive Support of Labor. Reuwer P., Bruinse H., Franx A. – 2015. – 216 pp.
9. Pathomorphosis of pericervical myometrium: a new view concerning the problem of uterine scar. Zhelezov D., Savenko T. Deutscher Wissenschaftsverlag German Science Herald, N4/2019. C. 27-30.
10. Organizational, regulatory and legal aspects of European integration of higher medical education in Ukraine: a critical review. 10.36740/wlek202006141. Maricherda V. H., Melnyk S. B., Borshch V. I., Terzi O. O., Lyakhova N. A. Wiadomości lekarskie. Volume LXXIII, Issue 6, June 2020. Pp. 1290-1295
11. Indocyanine green in surgical staging of early stage endometrial cancer. Gladchuk I., Rozhkovska N., Maricherda V., Kozhakov V., Petrovskyi Yu. International Journal of Gynecological Cancer. – 2019.
12. Prevention of purulent-septic complications during laparoscopic surgeries on pelvic organs with the risk of vaginal microbiota contamination. Zaporozhan V.N., Gladchuk I. Z., Rozhkovska N.M. et al. World of Medicine and Biology.-2020-№1(71). P.49- 53
13. DNA methylation analysis of WIF1 and DKK4 in cervical precancerous lesions and cancer. I. Gladchuk, N. Rozhkovska, N. Kashtalian, A. Volyanska, G. Lavrynenko. Journal of Education, Health and Sport. 2019. Vol. 9 (1). P. 443–451.

14. Morphofunctional features of endometrium in women with combination of male and female factors. <http://dx.doi.org/10.5281/zenodo.3603418>. O. M. Nosenko, A. I. Seylova. Journal of Education, Health and Sport. – 2019. - № 9(2).

## **EVALUATION**

### **Assessment of independent work of students (SIW)**

Independent and individual work of students involves independent processing of educational material submitted to the SIW, and is carried out in the following forms: study of educational, specialized literature, policy documents, writing a medical history, writing essays on missed classes and more.

Independent work of students during the current control of mastering the topics of sections in the relevant classroom. Assimilation of topics that are submitted only for independent work are checked during the test control.

### **Assessment of individual student tasks**

In order to increase the arithmetic mean of all grades obtained by the student in the discipline, the assessment for individual tasks is charged to the student only if they are successfully completed and defended. The grade is added to the current performance.

### **Current performance**

Evaluation of the success of the study of each topic in the discipline is performed on a traditional 4-point scale.

The following methods of control of students' learning outcomes are used: oral examination on the topic of the lesson; testing; solving situational problems; drawing up a plan for examination and treatment of patients, analysis of the results of clinical, laboratory and instrumental studies, substantiation of the diagnosis, determination of indications for surgical interventions, practice of practical skills on phantoms, etc.

At the end of the course, the current performance is calculated as the average current score, that is the arithmetic mean of all grades obtained by the student on a traditional scale, rounded to 2 (two) decimal places, such as 4.75.

In the last practical lesson announce to students the results of their current academic performance, academic debt (if any).

### **Final control**

The form of final control of knowledge is an examination for 4th, 5th and 6th year students.

Students who have performed all types of work provided for curriculum, have no academic debt and in the study of the discipline scored for the current academic activity the average number of points, not less than the minimum - 3.00.

Exam in the form of an oral survey head of the department, head of the department, professors and associate professors of the department. During the exam, the student answers two theoretical questions (one from obstetrics and gynecology) and solves two situational problems (one from obstetrics and gynecology) and performs two medical manipulations (one from obstetrics and gynecology), according to the program.

### **Evaluation criteria**

- the grade "excellent" is given to the student who systematically worked during a semester, showed during examination various and deep knowledge of a program material, is able to carry out successfully the tasks provided by the program, has mastered the maintenance of the basic and additional literature, has understood interrelation of separate sections of discipline. importance for the future profession, showed creative abilities in understanding and using educational material, showed the ability to independently update and replenish knowledge; level of competence - high (creative);
- a grade of "good" is given to a student who has shown full knowledge of the curriculum, successfully performs the tasks provided by the program, mastered the basic literature recommended by the program, showed a sufficient level of knowledge of the discipline and is able to update and update them during further study and professional activity; level of competence - sufficient (constructive-variable);
- the grade "satisfactory" is given to the student who has shown knowledge of the basic educational program material in the volume necessary for the further training and the subsequent work on a profession, copes with performance of the tasks provided by the program, has made separate mistakes in answers on examination and at performance of examination tasks, but has the necessary knowledge to overcome mistakes under the guidance of a researcher; level of competence - average (reproductive);
- the grade "unsatisfactory" is given to the student who did not show sufficient knowledge of the basic educational program material, made fundamental mistakes in performance of the tasks provided by the program, cannot use the knowledge at the further training without the teacher's help, failed to master skills of independent work; the level of competence is low (receptive-productive).

The exam is considered passed if the student received a grade of "3" and above.

### **Discipline assessment**

Discipline assessment consists of the share of the results of the assessment of current educational activities (arithmetic mean of all current student assessments) and the exam, which are, respectively, 50% and 50%. Further calculations are performed by the information and computer center of the university. The multi-point scale characterizes the actual success of each student in mastering the discipline. Conversion of the traditional grade from the discipline to 200-point is



performed by the information and computer center of the university program "Contingent" by the formula:

$$\text{average grade point average (current / from the discipline) } \times 40$$

Incentive points according to the decision of the department can be added to the number of points in the discipline to students who have scientific publications, won prizes for participation in the Olympiad in the discipline at the university or among IHE of Ukraine, active students.

Average score for the discipline	Grade on the discipline on a 4-point scale
185-200	5
151-184	4
120-150	3

## **COURSE POLICY**

### **Deadline and Recompilation Policy**

All missed classes need to be worked out. Lectures are worked out by writing essays on the topic of the lesson. Practical exercises are worked out according to the schedule of consultations.

Students do not have the right to rearrange the current satisfactory and unsatisfactory grades in order to increase the arithmetic mean of all current grades.

Students have the right during the semester to retake current unsatisfactory grades only in order to achieve an average current score of 3.00.

### **Academic Integrity Policy**

Unacceptable write-offs, the student must be fluent in the material.

### **Attendance and lateness policy**

The student should not miss lectures and practical classes, the absence of valid reasons should be informed in advance to the teacher, delays are not desirable.

### **Mobile devices**

It is not allowed to use a mobile phone, tablet or other mobile devices during the lesson (except in cases provided by the curriculum and the teacher's guidelines).

### **Audience behavior**

Creative, businesslike, friendly atmosphere.