

Odessa National Medical University
International Faculty
Department of Obstetrics and Gynecology

Syllabus course of discipline
Obstetrics and gynecology

Amount	10.0 ECTS credits, 300 hours VII - XII semesters, 4, 5, 6 course
Days, time, place	On schedule Auditoriums of the Department of Obstetrics and Gynecology Odessa, street Pasteur, 9
Teacher (s)	Teachers of the Department of Obstetrics and Gynecology
Contact information	Bykova Natalia 0976431180 E-mail natalia.bykova@onmedu.edu.ua Consultations Thursday 14.30-16.00 Saturday 9.00-13.00 A link to an online consultation is provided to each group during classes separately.

Communication is possible during face-to-face consultations (offline / Face to face), 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 Mastering by the student of knowledge and formation of elements of professional competencies in the field of "obstetrics and gynecology", improving the skills and competencies acquired in the study of previous disciplines.

Tasks of the discipline:

1. Formation of skills and abilities in differential diagnosis, the most common diseases in gynecological patients and pregnant women.

2. Improving the skills of substantiating a clinical diagnosis, drawing up a plan for laboratory and instrumental research in gynecological diseases and during pregnancy.

3. Mastering the ability to determine the tactics of treatment and prevention of gynecological diseases and complications of pregnancy.

The process of studying the discipline is aimed at forming elements of the following competencies:

Expected results. As a result of studying the discipline the student must:

Know:

Basic principles of organizing obstetric and gynecological care for the population of Ukraine.

- Possible complications of pregnancy, childbirth and the postpartum period.
- Management of patients with different obstetric pathology.
- Etiopathogenesis, classification, diagnosis of diseases of the female reproductive system
- Management of patients with different gynecological pathology
- Methods of contraception for certain categories of the population; WHO medical acceptance criteria for the use of contraception

Be able:

- Collect data on patient complaints, medical history, life history.
- To evaluate information about the diagnosis using a standard procedure, based on the results of laboratory and instrumental studies
- To determine the list of necessary clinical laboratory and instrumental studies and evaluate their results (list 4).
- To describe the leading clinical symptom or syndrome (list 1).
- To establish a preliminary diagnosis, carry out differential diagnosis and determine the clinical diagnosis of the disease (list 2).
- To determine the principles of treatment of diseases, the necessary regime of work and rest, the nature of nutrition (list 2).
- To diagnose emergency conditions (list 3).
- To determine tactics and provide emergency medical aid in emergency situations (list 3).
- To conduct counseling on family planning, to determine the tactics of physiological pregnancy, physiological childbirth, and the postpartum period.

- To assess a patient`s condition; carry out diagnostic and tactical measures in each period of childbirth; to perform necessary examinations during vaginal delivery; assess the condition of the fetus during childbirth and mother`s condition in postpartum period.
- To assess a patient`s condition and recommend necessary examinations before using the contraceptive; demonstrate the ability to provide family planning counseling.
- Reasonably formulate and convey to the woman in labor, relatives and specialists recommendations for the most effective delivery; provide the necessary information about changes in a woman's body in the postpartum period.
- Reasonably formulate and demonstrate to the patient, relatives and specialists recommendations regarding the choice of contraception method; provide the necessary information about changes in a woman's body during the use of a contraceptive.

Master the skills:

- Communication and clinical examination of the patient.
- Perform medical manipulations (list 5).
- Keep medical documentation.

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).

Teaching methods, according to the curriculum are: a) practical classes; b) independent work of students.

Practical classes are conducted on clinical bases with the use of modern technical teaching aids; interactive teaching methods: role play, method "standardized patient", use of video library on obstetrics and gynecology, simulators, practice of practical skills of manipulations according to list 5 in the simulation training room, solving clinical situational problems, curation of pregnant women / mothers / parturients.

Independent work of the student independent work with the textbook, independent work with the bank of test tasks Step-2, independent solution of clinical problems.

Individual task - a form of organization of education in order to deepen, generalize and consolidate the knowledge that students receive in the learning process, as well as the application of this knowledge in practice, ie individual educational and research task.

Contents of the discipline "Obstetrics and Gynecology"

Section 1. Gynecology. (4th year)

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

Topic 2. Clinical anatomy and physiology of the female genital organs. Methods of examination of gynaecological patients. General gynaecological signs and symptoms.

Topic 3. Neuroendocrine regulation. Dysfunction of the reproductive system.

Topic 4. Neuroendocrine syndromes in Gynecology.

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

Topic 6. Precancerous diseases of the female genital organs.

Topic 7. Inflammatory diseases of the female genital organs.

Topic 8. "Acute abdomen" in Gynecology.

Topic 9. Infertile marriage.

Topic 10. Family planning.

Section 2. Obstetrics (5th year)

Topic 11. Female pelvis. 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 for labor.

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

Topic 15. Abnormalities of the fertilized human egg. Multiple pregnancy.

Topic 16. Fetal distress. Intrauterine growth restriction.

Topic 17. Maternal-fetal blood incompatibility.

Topic 18. Gestosis of early terms of pregnancy. Hypertensive conditions during pregnancy. Preeclampsia. Eclampsia.

Topic 19. Miscarriage. Preterm labor.

Topic 20. Contracted pelvis. Fetal malpresentation and malposition. 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. Menstrual disorders in women of reproductive age. Neuroendocrine syndromes in Gynaecology. Physiological and pathological conditions of the reproductive system at different ages.

Topic 25. Female urogenital inflammatory diseases.

Topic 26. Benign tumours of the female genitalia. Dyshormonal diseases of the breast. Endometriosis.

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

Topic 28. Gynaecological emergencies. Gynaecological surgery. Preoperative and postoperative care of the gynaecological patient in case of emergency and planned surgery. Prevention of HIV.

Topic 29. Infertile marriage. Modern family planning and contraception methods. The medical eligibility criteria for contraceptive use according WHO.

Topic 30. Physiology of pregnancy, labor and postpartum period. Perinatal protection of fetus. Pharmacotherapy in Obstetrics.

Topic 31. Gestosis of early terms of pregnancy. Hypertensive conditions during pregnancy. Preeclampsia. Eclampsia.

Topic 32. Miscarriage. Post term pregnancy. Multiple pregnancy.

Topic 33. Abnormalities of the female pelvis. Macrosomia in Obstetrics. Cephalopelvic disproportion. Fetal malpresentation and malposition. Breech presentation of the fetus. Abnormal uterine action. Birth trauma.

Topic 34. Obstetric hemorrhage in pregnancy, labor and postpartum period. Hemorrhagic shock. DIC - syndrome. Intensive therapy and resuscitation in case of obstetric hemorrhage.

Topic 35. Pregnancy and labor in women with extragenital diseases. Maternal-fetal blood incompatibility. Perinatal infections. Prevention of vertical transmission of HIV.

Topic 36. Placental dysfunction, hypotrophy of the fetus, fetal distress symptoms. Abnormalities of the fertilized human egg.

Topic 37. Operative Obstetrics. Postpartum septic diseases.

List of recommended literature

Basic:

1. Obstetrics: student's book = Акушерство: підручник / Gladchuk I.Z., Ancheva I.A. Vinnytsia: Nova Knyga, 2021. –288 p.
2. Obstetrics and Gynecology: in 2 vol.:textbook. Volume 2. Gynecology / V.I. Gryshchenko, M.O. Shcherbina, B.M. Ventskivskyi et al.; edited by V.I. Gryshchenko, M.O. Shcherbina. — 3th edition. – K.: AUS Medicine Publishing, 2022 – 352 p.
3. Obstetrics and Gynecology: in 2 vol.:textbook. Volume 1. Obstetrics / V.I. Gryshchenko, M.O. Shcherbina, B.M. Ventskivskyi et al.; edited by V.I. Gryshchenko, M.O. Shcherbina. — 2th edition. – K.: AUS Medicine Publishing, 2018 – 392 p.
4. Oats, Jeremy Fundamentals of Obstetrics and Gynaecology [Text]: Liewellyn-Jones Fundamentals of Obstetrics and Gynaecology / J. Oats, S. Abraham. – 10th ed. – Edinburgh [etc.]: Elsevier, 2017. – VII, 375 p.
5. Liewellyn-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. Dutta, Durlav Chandra. D. C. Dutta's Textbook of Gynecology including Contraception / D.C. Dutta; ed/ Hiralal Konar. – 7th.ed. – New Delhi: Jaypee Brothers Medical Publishers, 2016. – XX, 574 p.

Additionally:

1. 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.
2. 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.
3. Modern technical teaching aids (see appendix to the work program of the 4th year)
4. Prevention of purulent-septic complications during laparoscopic surgeries on pelvic organs with the risk of vaginal microbiota contamination / Zaporozhan VN, Gladchuk IZ, Rozhkovska NM, Volyanska AG, Shevchenko OI //World of Medicine and Biology.-2020- #1(71). - P.49- 53. (Web of science)
5. Normative documents of the Ministry of Health of Ukraine on obstetrics and gynecology:
 - Order No. 676 of 12/31/2004 "On approval of clinical protocols for obstetric and gynecological care"
 - Order No. 782 dated 12.29.2005 "On the approval of clinical protocols for obstetric and gynecological care"(as amended in accordance with the orders of the Ministry of Health)
 - Order No. 900 of 12/27/2006 Clinical protocol on obstetric care. "Fetal distress during pregnancy and childbirth."
 - Order No. 901 dated 27.12.2006 Clinical protocol on obstetric care. "Transferred pregnancy".
 - Order No. 906 of 12/27/2006 Clinical protocol on obstetric care. Perinatal infections.
 - Order No. 540 dated 04.08.2006 On approval of the principles of breastfeeding support, criteria and procedure for evaluating a health care facility for compliance with the status "Child-friendly Hospital".
 - Order No. 716 dated 14.11.2007 "On the approval of the clinical protocol for obstetric care "Prevention of transmission of HIV from mother to child".
 - Order No. 502 dated August 29, 2008, "On approval of the clinical protocol for antibacterial prophylaxis in surgery, traumatology, obstetrics and gynecology"
 - Order No. 624 03.11.2008 Clinical protocol for obstetric care "Normal childbirth".
 - Order No. 417 dated 15.07.2011 "On the organization of ambulatory obstetric and gynecological care in Ukraine"
 - Order No. 976 of 12/27/2011 Vaginal delivery after caesarean section (C-section)
 - Order No. 977 of 12/27/2011 Clinical protocol for obstetric care "Caesarean section".

- Order No. 423 dated 05/24/2013 "On approval of the procedure for providing complex medical care to a pregnant woman during an unwanted pregnancy, forms of primary accounting documentation and instructions for filling them out"
- Order No. 955 dated 05.11.2013 "Procedure carrying out emergency post-contact prevention of HIV infection among employees in the performance of professional duties".
- Order No. 59 dated 21.01.2014 On the approval and implementation of medical and technological documents on the standardization of medical care for family planning.
- Order No. 205 dated 03.24.14. Clinical protocol "Obstetric bleeding".
- Order No. 236 dated 02.04.2014 "Papproval and implementation of medical and technological documents on the standardization of medical care for dysplasia and cervical cancer".
- Order No. 319 dated 06.04.2016 "On the approval and implementation of medical and technological documents on the standardization of medical care for genital endometriosis"
- Order No. 353 dated 04/13/2016 "On the approval and implementation of medical and technological documents on the standardization of medical care for abnormal uterine bleeding"
- Order No. 869 dated 05.05.2021 "On approval of the unified clinical protocol of primary, secondary (specialized), tertiary (highly specialized) medical care "Endometrial hyperplasia"

Electronic information resources

1. <https://www.cochrane.org/>- Cochrane / Cochrane Library
2. <https://www.acog.org/>- The American College of Obstetricians and Gynecologists
3. <https://www.uptodate.com>– UpToDate
4. <https://online.lexi.com/>- Wolters Kluwer Health
5. <https://www.ncbi.nlm.nih.gov/>- National Center for Biotechnology Information / National Center for Biotechnology Information
6. <https://pubmed.ncbi.nlm.nih.gov/>- International Medical Library / National Library of Medicine
7. <https://www.thelancet.com/>- The Lancet
8. <https://www.rcog.org.uk/>- Royal College of Obstetricians & Gynecologists
9. <https://www.npwh.org/>- Nurse practitioners in women's health
10. <http://moz.gov.ua>- Ministry of Health of Ukraine
11. www.ama-assn.org– American Medical Association / [American Medical Association](#)
12. www.who.int- [World Health Organization](#)
13. www.dec.gov.ua/mtd/home/- [State Expert Center of the Ministry of Health of Ukraine](#)
14. <http://bma.org.uk>– British Medical Association
15. www.gmc-uk.org- General Medical Council (GMC)

16. www.bundesaerztekammer.de– German Medical Association

17. www.euro.who.int- European Regional Office of the World Health Organization

EVALUATION

Ongoing control: oral assessment, assessment of practical skills, communication skills during role-playing, solving of situational clinical tasks, assessment of learning activities, test control.

Final control: differential test (4th course, 5th course), exam (6th course).

Assessment of the ongoing learning activities:

1. Assessment of the theoretical knowledge according to the topic:
 - methods: individual oral assessment, solving of situational clinical task
 - the maximum score – 5, the minimum score – 3, the unsatisfactory score – 2.
2. Assessment of practical skills and manipulations according to the topic:
 - methods: assessment of the practical skill
 - the maximum score – 5, the minimum score – 3, the unsatisfactory score – 2.
3. Assessment of the medical care according to the topic:
 - methods: assessment of: a) communication skills of communicating with the patient and his parents, b) the correctness of prescribing and evaluating laboratory and instrumental studies, c) compliance with the differential diagnosis algorithm, d) substantiation of the clinical diagnosis, e) drawing up a treatment plan
 - the maximum score - 5, the minimum score - 3, the unsatisfactory score - 2.

The score for one practical class is the arithmetic average of all components and can only have an integer value (5, 4, 3, 2), which is rounded statistically.

Criteria of ongoing assessment at the practical class

Rating	Criteria assessment
«5»	The student is fluent in the material, takes an active part in discussing and solving a situational clinical problem, confidently demonstrates practical skills during the examination of a patient and interpretation of clinical, laboratory and instrumental studies, expresses his opinion on the topic, demonstrates clinical thinking.
«4»	The student is well versed in the material, participates in the discussion and solution of situational clinical problems, demonstrates practical skills during the examination of a patient and interpretation of clinical, laboratory and instrumental studies with some errors, expresses his opinion on the topic, demonstrates clinical thinking.
«3»	The student does not have enough material, uncertainly participates in the discussion and solution of the situational clinical problem,

	demonstrates practical skills during the examination of a patient and interpretation of clinical, laboratory and instrumental studies with significant errors.
«2»	The student does not have the material, does not participate in the discussion and solution of the situational clinical problem, does not demonstrate practical skills during the examination of a patient and the interpretation of clinical, laboratory and instrumental studies.

The student is admitted to the differential test (4th course, 5th course) or final exam (6th course) provided that the requirements of the curriculum are met and if for the current educational activity, he received at least 3.00 points and passed the test control for the tests "KROK-2" not less than 80% (50 tasks).

The test control is held in the Educational and Production Complex of Innovative Technologies of Learning, Informatization and Continuous Education of ONMedU in the last class before the Differential test (the exam).

**Evaluation of learning results during the final control
4, 5, 6 courses**

The content of the evaluated activity	Scores
Answer theoretical question 1	2,5
Answer theoretical question 2	2,5

Exam Card example for a student of the 4th year

1. Abnormal uterine bleeding during the reproductive period: etiology, clinical features, diagnosis, modern management.
2. Emergency contraception: modern management.

Exam Card example for a student of the 5th year

1. Diagnosis of early pregnancy term. Presumptive, probable and positive signs of pregnancy.
2. Eclampsia: definition. Emergency care.

Exam Card example for a student of the 6th year

1. Cervical ectopic pregnancy. Clinical features, diagnosis, modern management.

2. Obstetric bleeding during the second half of pregnancy: causes. Modern management.

**Criteria for assessing the learning outcomes of students
in the Final Control:**

«5»	The student completed all the tasks correctly, accurately and completely, clearly and logically answered the questions posed by the examiners. Thoroughly and comprehensively knows the content of theoretical issues, fluent in professional and scientific terminology. Thinks logically and constructs an answer, freely uses acquired theoretical knowledge when analyzing practical tasks.
«4»	The student completed all the tasks sufficiently fully, clearly and logically answered the questions posed by the examiners. He knows the content of theoretical issues deeply and comprehensively, and has professional and scientific terminology. Thinks logically and constructs an answer, uses acquired theoretical knowledge when analyzing practical tasks. But when teaching some questions, there is not enough depth and argumentation, it makes insignificant mistakes, which are eliminated by the applicant himself when the examiner points them out.
«3»	The student completed all the tasks incompletely, the answers to additional and leading questions are vague and vague. Possesses a basic amount of theoretical knowledge, uses professional and scientific terminology inaccurately. Experiences significant difficulties in constructing an independent logical answer, in applying theoretical knowledge in the analysis of practical tasks.
«2»	The student did not complete the task, in most cases did not answer the additional and leading questions of the examiners. He did not master the basic amount of theoretical knowledge, he showed a low level of mastery of professional and scientific terminology. Answers to questions are fragmentary, inconsistent, illogical, cannot apply theoretical knowledge when analyzing practical tasks

The average score for the discipline is translated into a national grade and converted into scores on a multi-point scale (200-point scale).

Table for conversion of traditional assessment into multi-point:

National assessment for discipline	The sum of points for the discipline
Excellent ("5")	185 - 200
Good ("4")	151 - 184

Satisfactory ("3")	120-150
Unsatisfactory ("2")	Below 120

A multi-point scale (200-point scale) characterizes the actual success of each applicant in learning the educational component. The conversion of the traditional grade (average score for the academic discipline) into a 200-point grade is performed by the information and technical department of the University.

According to the obtained points on a 200-point scale, the achievements of the applicants are evaluated according to the ECTS rating scale. Further ranking according to the ECTS rating scale allows you to evaluate the achievements of students from the educational component who are studying in the same course of the same specialty, according to the points they received.

The ECTS scale is a relative-comparative rating, which establishes the applicant's belonging to the group of better or worse among the reference group of fellow students (faculty, specialty). An "A" grade on the ECTS scale cannot be equal to an "excellent" grade, a "B" grade to a "good" grade, etc. When converting from a multi-point scale, the limits of grades "A", "B", "C", "D", "E" according to the ECTS scale do not coincide with the limits of grades "5", "4", "3" according to the traditional scale. Acquirers who have received grades of "FX" and "F" ("2") are not included in the list of ranked acquirers. The grade "FX" is awarded to students who have obtained the minimum number of points for the current learning activity, but who have not passed the final examination. A grade of "F" is given to students who have attended all classes in the discipline, but have not achieved a grade point average (3.00) for the current academic activity and are not admitted to the final exam.

Students who study in one course (one specialty), based on the number of points scored in the discipline, are ranked on the ECTS scale as follows:

**Conversion of traditional assessment in the discipline and the amount of points
on the ECTS scale**

Assessment on the ECTS scale	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 next 10% of students

Independent work of students

Independent and individual work of students involves independent processing of educational material submitted to the VTS, 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.

COURSE POLICY

Deadline and recompilation policy

All missed classes must be completed. Lectures are practiced by writing essays on the topic of the lesson. Practical classes are practiced 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

Adherence to academic integrity by students provides:

- independent performance of educational tasks, tasks of current and final control of learning outcomes (for persons with special educational needs this requirement is applied taking into account their individual needs and opportunities);
- links to sources of information in the case of the use of ideas, developments, statements, information;
- compliance with the law on copyright and related rights;
- providing reliable information about the results of their own (scientific, creative) activities, used research methods and sources of information.

Unacceptable in educational activities for participants in the educational process are:

- the use of family or business ties to obtain a positive or higher assessment in the implementation of any form of control over learning outcomes or advantages in scientific work;
- use of prohibited auxiliary materials or technical means (cheat sheets, abstracts, headphones, telephones, smartphones, tablets, etc.) during control measures;
- passing the procedures of control of learning outcomes by fictitious persons.

For violation of academic integrity, students may be held subject to the following academic liability:

- reduction of results of assessment of control work, examination, credit, etc.;
- re-assessment (test, exam, test, etc.);
- appointment of additional control measures (additional individual tasks, tests, tests, etc.);
- re-passing the relevant educational component of the educational program;
- conducting additional verification of other works by the infringer;

- deprivation of the right to participate in competitions for scholarships, grants, etc.;
- notification of the entity that finances the training (scientific research), the institution that issued the grant for training (research), potential employers, parents of the applicant for higher education about the violation;
- exclusion from the rating of applicants for an academic scholarship or accrual of penalty points in such a rating;
- deprivation of an academic scholarship;
- deprivation of tuition benefits provided by the University;
- expulsions from the University.

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 guidelines of the teacher).

Behavior in the audience

Creative, business, friendly atmosphere.