



## COURSE UNIT (MODULE) DESCRIPTION

Course unit (module) title	Code
<b>GYNAECOLOGY (2023-2024)</b>	

Lecturer(s)	Department(s) where the course unit (module) is delivered
<p><b>Coordinator:</b> prof. Žana Bumbulienė</p> <p><b>Others:</b> prof. Diana Ramašauskaitė, assoc. prof. Mindaugas Šilkūnas, assoc. prof. Daiva Bartkevičienė, assoc. prof. Vilius Rudaitis, assoc. prof. Audronė Arlauskienė, assoc. prof. Dalia Laužikienė, assoc. prof. Jolita Zakarevičienė, partn. assoc. prof. Rasa Vansevičiūtė-Petkevičienė, assist. Diana Bužinskienė, assist. Andrė Amšiejienė, assist. Gediminas Mečėjus, assist. Virginija Paliulytė, assist. Gintautas Domža, assist. Kristina Norvilaitė, jun. assist. Linas Andreika, lect. Ieva Daunoravičienė, lect. Ernestas Frolovas, lect. Guoda Žukienė, lect. Povilas Varnelis</p>	Vilnius University Faculty of Medicine, Clinic of Obstetrics and Gynaecology, Santariskiu 2, Vilnius

Study cycle	Type of the course unit (module)
Integrated studies	Compulsory

Mode of delivery	Period when the course unit (module) is delivered	Language(s) of instruction
Face-to-face or online lectures, classes, seminars, and workshops in simulator classes.	VI semester	English

Requirements for students	
<p><b>Prerequisites:</b> A student must have completed the following courses: Human anatomy. Histology. Human Biology and Genetics. Introduction to Medical Studies. Latin and Specialty Language. Biochemistry. Psychology, Basics of Professional Communication and Psychosomatics. Human physiology. Microbiology. Propaedeutics of Internal Diseases and Basics of Clinical Oncology. Public Health. Methodology of Scientific Work and Biostatistics. Clinical Practical Skills Development. Pathology. Applied Anatomy, Basics of Radiology. Pharmacology. Obstetrics. Radiology. Anaesthesiology and Reanimatology. General surgery. Pulmonology, Allergology and Clinical Immunology; Chest Surgery I/II.</p>	<p><b>Additional requirements (if any):</b> None</p>

Course (module) volume in credits	Total student's workload	Contact hours	Self-study hours
5 credits	133 h	66h	67h

<b>Purpose of the course unit (module): programme competences to be developed</b>		
<p>The purpose is to gain knowledge of anatomy, physiology and the development of female genital tract, the function of hypothalamus-pituitary-ovary axis. After completing the course students will be familiar with all methods of gynaecological examination and national screening for breast and cervical cancers. Students should be able to discuss about family planning. Students will know basic gynaecological pathology of women in different age groups, and urgent gynaecological situations. Student will be able to analyze and make conclusions regarding girls' pubertal development, sexual abuse, to evaluate menstrual cycle disorders, the symptoms of inflammatory diseases of genital tract, endometriosis, urination disorder, oncogynaecological diseases, to identify the causes of amenorrhea and infertility.</p>		
<b>Learning outcomes of the course unit (module)</b>	<b>Teaching and learning methods</b>	<b>Assessment methods</b>
<b>Generic competences</b>		
<p>To act fairly and according to ethical obligations, to act within competences, apply good medical practice principles at work, be creative, initiative, to communicate well with patients and colleagues. To be able to work with scientific literature and to use scientific evidence in medical practice.</p>	<p>Lectures; workshops in classroom, in simulator classes, in gynecological department, in operating theatre, in the consulting room; self-study, consultations.</p>	<p>Follow-up evaluation of the student work, the knowledge and skills acquired during lectures, workshops and self-study. Oral questioning in group and individually, case report presentation and discussion, causal assessment of knowledge.</p>
<b>Subject-specific competences:</b>		
<p>To know the methods of gynaecological examination: history taking, general and gynaecological exam, PAP smear, colposcopy, ultrasound. To know typical gynaecological operations, endoscopic operations (laparoscopy and hysteroscopy), complications, preoperative preparation, postoperative nursing. To differentiate the normal and abnormal sexual and pubertal development. To understand the neuroendocrinological regulation of ovarian function and menstrual cycle in all age groups.</p>	<ul style="list-style-type: none"> <li>• Lectures, including virtual</li> <li>• Seminars</li> <li>• Workshops in simulator classes</li> <li>• Classes in gynaecological department</li> <li>• Classes in operating theatre</li> <li>• Classes in the consulting room</li> <li>• Small groups discussion</li> <li>• Presentations</li> <li>• Consultations</li> <li>• Self-study</li> </ul>	<p>Follow-up evaluation of the student work, the knowledge and skills acquired during lectures, workshops and self-study.</p> <p>Continuous assessment of classes and seminars: Written quiz or test (10-point scale); Oral practical task (10-point scale); Written exam.</p>
<p>To be aware of family planning and contraceptive methods: natural family planning, hormonal methods, intrauterine device, barrier methods, spermicides, surgical sterilization, emergency contraception.</p>	<p>Students are informed about the plan of lectures in advance. Students are acquainted with the topics of GYNAECOLOGY Practice Classes during the very first workshop. Students must attend classes with theoretical knowledge of corresponding topic.</p>	<p>The test/quiz consists of 10 questions or clinical cases. Correct answer will be scored by 1 mark.</p>
<p>To evaluate menstrual cycle disorders: abnormal uterine bleeding, polycystic ovary syndrome, premenstrual syndrome, to identify the causes of primary and secondary amenorrhea. The basic knowledge in pediatric and adolescent gynaecology and how to deal with suspected sexual abuse.</p>	<p>Theoretical part of workshop takes place in auditorium. Some of students prepare and introduce the presentation of the current topic, then students discuss in small groups. Practical part of workshop takes place in wards, at the reception, in the room of procedures, in operating theatre, in simulator classes. Students together with lecturer examine patient, take part in presentations of clinical cases, assists during operations. 50% of time is allotted to self-</p>	<p>The assessment of practical skills consists of 5 areas to be evaluated:</p> <ol style="list-style-type: none"> <li>1. History taking,</li> <li>2. Skills assessment in simulator classes,</li> <li>3. Interpretation of the gynecological examination data,</li> <li>4. Interpreting clinical signs and symptoms, project into diagnosis,</li> <li>5. How the student formulates the</li> </ol>
<p>To know the specific and non-specific pelvic inflammatory diseases, endometriosis, adenomyosis, uterine myoma, their clinical manifestations, diagnosis and management. Urgent situations in gynaecology: internal bleeding into the pelvic, ectopic pregnancy, ovaries cysts torsion, traumatic injury of uterus wall.</p>		

<p>To know about pelvic organ, prolapse and urinary disorders, patient examination and treatment options.</p> <p>To know about physiology and pathology of womens' perimenopausal transition, diagnosis, management and treatment with hormonal replacement therapy.</p> <p>To be aware of the causes of infertility and the principles of the infertile family's therapy.</p>	<p>dependent study.</p> <p>At the end of class, the students are questioned orally (practical task) or in written form (written quizzes or tests).</p>	<p>question about missing data.</p> <p>Scores for each area: 2 points – demonstrates advanced skills, 1 point – average skills, 0 – fails to demonstrate any skills.</p> <p>If a student collects 2 points for each area, the grade is 10 (excellent).</p>
<p>To know the oncogynaecological diseases, their clinical features, diagnosis, treatment and prevention principles: Vulvar cancer. Benign and malignant cervical lesions. Endometrial hyperplasia, polyps, cancer. Ovarian benign and malignant tumors. Benign breast diseases. Breast cancer.</p>		

Content: breakdown of the topics	Contact hours						Self-study work: time and assignments		
	Lectures	Tutorials	Seminars	Exercises	Laboratory work	Internship/work	Contact hours	Self-study hours	Assignments
Introduction		1					1		Information on how to prepare for the exercises and seminars; how students' work, knowledge and skills will be assessed during semester. Information about the final assessment during the exam.
1. Examination methods for gynecological patients. Preoperative preparation of the patient, postoperative complications.				4			4	2	History, general and gynecological examination, PAP smear, colposcopy, ultrasound, HSG, hysteroscopy, laparoscopy. Perioperative care of the patient, preoperative preparation, postoperative nursing and complications.
2. Normal and abnormal sexual development. Neuroendocrine regulation of ovarian function.			2				2	4	To prepare for the workshop about the menstrual cycle regulation, changes during the lifetime. Normal and abnormal sexual development.
3. Normal and abnormal puberty. Primary and secondary amenorrhea.	2			2			4	4	Normal and abnormal pubertal development. Reasons and management of primary and secondary amenorrhea.
4. Paediatric and adolescent gynaecology. Sexual abuse	2						2	2	The physical exam of girls and adolescents. How to recognize sexual violence. Physician actions.
5. Family planning. Methods of contraception			4				4	4	Family planning, methods of contraception.

6. Menstrual cycle disorders. Abnormal uterine bleeding. Premenstrual syndrome.			4	2			6	6	Reasons and treatment of abnormal uterine bleedings. Reasons of PMS, diagnosis and management.
7. Polycystic ovary syndrome. Hyperandrogenemia.			4				4	4	The diagnostic criteria for PCOS, significance during reproductive age, treatment.
8. Infertility: reasons, diagnosis and management.	2						2	2	Examination and management of the infertile family.
9. Perimenopause. Menopause. Menopause hormone therapy.			2	2			4	4	Perimenopausal transition. Changes during the menopause, symptoms and management.
10. Uterine leiomyomas			2				2	2	Classification of leiomyomas, clinical symptoms, diagnosis and treatment. Case presentation and discussion, causal assessment of knowledge.
11. External genital organs and vagina inflammations. Bacterial vaginosis.				2			2	2	External genital organs and vagina inflammations. Bacterial vaginosis.
12. Pelvic inflammatory disease (PID): endometritis, salpingitis, pelvic peritonitis, parametritis. Purulent inflammation of genital organs. Sepsis.	2		2				4	4	PID etiology, clinic, diagnosis and treatment. Endometritis, salpingitis, pelvic peritonitis, parametritis. Purulent inflammation of genital organs. Sepsis
13. Benign breast diseases. Breast cancer.			2				2	2	Breast diseases. Breast cancer.
14. Pelvic organ prolapse. Gynecological diseases and disorders of urinating.	2			2			4	4	The pelvic floor anatomy, prolapse: reasons, diagnosis and management. Case report presentation and discussion.
15. Urgent situations in gynecology.			2	2			4	4	Acute abdomen and other gynecological emergencies, diagnosis and management. Case presentation and discussion, causal assessment of knowledge.
16. Endometriosis. Chronic pelvic pain.	2			2			4	4	Classification of endometriosis, diagnosis and treatment. Adenomyosis. External endometriosis of genital organs. Reasons and examination methods in chronic pelvic pain.
17. Benign and malignant lesions of external genitalia	1			2			3	3	Benign and malignant external genitalia and vaginal lesions: classification, clinic, diagnosis and management.
18. Benign and malignant cervical lesions.	1		1	1			3	3	Aetiology, classification, clinic, diagnosis, treatment of benign and malignant cervical lesions.
19. Endometrium hyperplasia, polyps and cancer.	1			2			3	3	Hyperplasia, polyps and cancer of endometrium: etiology, classification, clinic, diagnosis and treatment.
20. Ovarian benign and malignant tumors.	1		1	1			3	4	Benign ovarian tumors classification, diagnosis and treatment. Ovarian cancer diagnosis, staging, management. Case presentation and discussion, causal assessment of knowledge.
<b>Total</b>	<b>16</b>		<b>26</b>	<b>24</b>			<b>66</b>	<b>67</b>	

Assessment strategy	Weight (%)	Assessment period	Assessment criteria
Activity during seminars and the assessment of written quizzes and tests	20%	During semester	More than <b>75%</b> of practical works and seminars ( <b>7 from 9</b> ) must be attended. There are <b>6 written quizzes or tests</b> during semester, all of them are required to pass the exam. The test/quiz consists of 10 questions or clinical cases. Correct answer will be scored by 1 mark. Mark 10 – (10 correct answers), mark 9 - (9), 8 - (8), 7- (7), 6 - (6), 5 - (5), 4 and less correct answers - test failed.
Practical task	20%	During semester	The practical knowledge and skills are evaluated <b>twice per course</b> by self-performing tasks in the simulator class and giving the answers to practical task test, including fullness, consistency and correctness of each answer and skill. It is evaluated how actively student participates in discussions, answers and formulates questions, analyses clinical case, makes critical comments.
<b>Exam:</b>  <b>Test</b>	<b>60%</b>	During session	The exam is the final, comprehensive assessment of the knowledge and skills acquired during the exercises, seminars and lectures. Student must fulfil attendance requirements (>75% of practical works and seminars) and pass all 6 tests and 2 practical tasks, regardless of whether they attended the seminar or not. If student do not pass the test, or do not have all the positive grades for the tests (5 or higher) by the date of the exam, they will not be admitted to the exam and will only be able to take the exam during the retake session.  The exam consists of 50 questions. Correct answer will be scored 1 mark. The exam is evaluated using grades on a scale from 1 to 10. The meaning of the grades: 10: excellent (50-47 correct answers), 9: very good (46-43 correct answers), 8: good (42-39 correct answers), 7: moderate (38-35 correct answers), 6: satisfactory (34-30 correct answers), 5: weak (29-25 correct answers), 0 – 4: does not fulfil minimal requirements (< 25 correct answers).
<b>Total evaluation</b>	<b>100 %</b>	During session	Final mark consists of the total evaluation of the work during semester (40%), and the theoretical knowledge evaluation on exam (60%). Marks range from 1 to 10, where 10-excellent, 9-very good, 8-good, 7- highly satisfactory, 6-satisfactory, 5- sufficient, 1-4 insufficient.

Author	Year of publication	Title	No of periodical or vol. of publication	Publication place and publisher or Internet link
<b>Required reading</b>				
J. S. Berek	2019	Berek and Novak's Gynecology, 16e	ISBN: 978-1496380333	Lippincott Williams & Wilkins
B. L. Hoffman, J. O. Schorge, K. D. Bradshaw, L. M. Halvorson, J. I. Schaffer, M. M. Corton	2020	Williams' Gynecology, 4e	ISBN: 978-1260456868	McGraw-Hill Professional VU Biblioteka, Duomenų bazės, Elektroniniai ištekliai, Medicina, AccessMedicine
B. Magowan	2023	Clinical Obstetrics and Gynaecology, 5e	ISBN: 978-0702085130	Elsevier  VU Biblioteka, Duomenų bazės, Elektroniniai ištekliai, Medicina, Clinicalkey
A. H. DeCherney, L. Nathan, N. Laufer, A. S. Roman	2019	Current Diagnosis and Treatment: Obstetrics and Gynecology, 12e	ISBN: 978-07-183390-5	McGraw-Hill Education  VU Biblioteka, Duomenų bazės, Elektroniniai ištekliai, Medicina, AccessMedicine

J. Guillebaud, A. MacGregor	2017	Contraception: Your Questions Answered	ISBN: 978-0-7020-4619-3	Elsevier  VU Biblioteka, Duomenų bazės, Elektroniniai ištekliai, Medicina, ClinicalKey Medical Education
<b>Recommended reading</b>				
Hugh S. Taylor, Lubna Pal, Emre Seli		Speroff's Clinical Gynecologic Endocrinology and Infertility, 9e	ISBN: 9781451189766	Wolters Kluwer
W.T. Creasman, R.S. Mannel	2022	Clinical Gynecologic Oncology, 10e	ISBN: 978-0323776844	Elsevier
K. J. Hurt, M. W. Guile, J. Bienstock	2020	The Johns Hopkins Manual of Gynecology and Obstetrics 6e.	ISBN: 978-1975140205	Lippincott Williams & Wilkins
L. Van Le, V. L. Handa	2023	TeLinde's Operative Gynecology, 13e	ISBN: 978-1975200091	Lippincott Williams & Wilkins
S. P. Hertweck, M. L. Dwiggin	2022	Clinical Pediatric and Adolescent Gynecology, 2e	ISBN: 978-0367483098	CRC Press