



## COURSE UNIT (MODULE) DESCRIPTION

Course unit (module) title	Code
<b>GYNECOLOGY</b>	

Lecturer(s)	Department(s) where the course unit (module) is delivered
<b>Coordinator:</b> prof. dr. Žana Bumbulienė  <b>Others:</b> Lecturers of the Clinic of Obstetrics and Gynecology, Institute of Clinical Medicine	Vilnius University Faculty of Medicine, Clinic of Obstetrics and Gynecology, Santariskiu 2, Vilnius

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

Mode of delivery	The period when the course unit (module) is delivered	Language(s) of instruction
Face-to-face classes, seminars, and workshops in simulator classes. Lectures online.	VI Semester	English

Requirements for students	
<b>Prerequisites:</b> A student must have completed the following courses: Introduction to Medical Studies. Human Anatomy. Physiology. Histology. Human Biology. Latin and Professional Language. Biochemistry. Psychology, Professional Communication, and Psychosomatics. Microbiology. Pharmacology. Pathology. Propaedeutics of Internal Diseases. Human genetics. Public Health. Introduction to research in medicine and evidence-based medicine. Applied Anatomy and Fundamentals of Radiology. Obstetrics. Radiology. Anaesthesiology and Reanimatology. General surgery. Pulmonology, allergology, and clinical immunology, thoracic surgery.	<b>Additional requirements (if any):</b> None

Course (module) volume in credits	Total student's workload	Contact hours	Self-study hours
5 credits	135 h	66 h	69 h

Purpose of the course unit (module): program competences to be developed
The purpose is to gain knowledge of anatomy, physiology, the development of the female genital tract, and the function of the hypothalamus-pituitary-ovary axis. After completing the course, students will be familiar with all methods of gynecological examination and national screening for breast and cervical cancers. Students should be able to discuss family planning. Students will know the basic gynecological pathology of women in different age groups and urgent gynecological situations. Students will be able to analyze and make conclusions regarding girls' pubertal development and sexual abuse, evaluate menstrual cycle disorders, the symptoms of inflammatory diseases of the genital tract, endometriosis, urination disorder, oncogynecological diseases, to identify the causes of amenorrhea and infertility.

Learning outcomes of the course unit (module)	Teaching and learning methods	Assessment methods
<b>Generic competencies</b>		
To act fairly and according to ethical obligations, within competencies, apply good medical practice principles at work, be creative and initiative, and communicate well with patients and colleagues. To be able to work with scientific literature and to use scientific evidence in medical practice.	Lectures; workshops in the classroom, simulator classes, gynecological department, operating theatre, and consulting room; self-study, consultations.	Follow-up evaluation of the student work, as well as the knowledge and skills acquired during lectures, workshops, and self-study. Oral questioning in groups and individually, case report presentation and discussion, and causal assessment of knowledge.
<b>Subject-specific competencies:</b>		
To know the methods of gynecological exam: history taking, general and gynecological exam, PAP smear, colposcopy, ultrasound. To know typical gynecological operations, endoscopic operations (laparoscopy and hysteroscopy), complications, preoperative preparation, and 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.	<ul style="list-style-type: none"> <li>Online lectures</li> <li>Seminars</li> <li>Workshops in simulator classes</li> <li>Classes</li> <li>Classes in operating theatre</li> <li>Classes in the consulting room</li> <li>Small group discussion</li> <li>Presentations</li> <li>Consultations</li> <li>Self-study</li> </ul>	Follow-up evaluation of the student work and the knowledge and skills acquired during lectures, workshops, and self-study.
To be aware of family planning and contraceptive methods: natural family planning, hormonal methods, intrauterine devices, barrier methods, spermicides, surgical sterilization, and emergency contraception.	Students are informed about the plan of lectures in advance. Students are acquainted with the topics of GYNECOLOGY Practice Classes before the first workshop. Students must attend classes with theoretical knowledge of the corresponding topic.	Continuous assessment of classes and seminars: Written quiz or test (10-point scale); Oral practical task (10-point scale); Written exam.
To evaluate menstrual cycle disorders, abnormal uterine bleeding, PCOS, and premenstrual syndrome to identify the causes of primary and secondary amenorrhea. Basic knowledge in pediatric and adolescent gynecology and how to deal with suspected sexual abuse.	The theoretical part of the workshop takes place in the auditorium. Some of the students prepare and introduce the presentation of the current topic, and then students discuss it in small groups.	The test/quiz consists of 5 or 10 questions or clinical cases. The correct answer will be scored by one mark.
To know the specific and non-specific pelvic inflammatory diseases, endometriosis, adenomyosis, uterine myoma, their clinical manifestations, diagnosis, and management. Urgent situations in gynecology: internal bleeding into the pelvis, ectopic pregnancy, ovary cysts, torsions.	The practical part of the workshop takes place in wards, at the reception, in the procedures room, in the operating theatre, and simulator classes. Students, together with the lecturer, take part in presentations of clinical cases. 50% of the time is allotted to self-dependent study.	The assessment of practical skills consists of 5 areas to be evaluated: <ol style="list-style-type: none"> <li>History taking,</li> <li>Skills assessment in simulator classes,</li> <li>Interpretation of the gynecological examination data,</li> <li>Interpreting clinical signs and symptoms, project into diagnosis,</li> <li>How the student formulates the question about missing data.</li> </ol>
To know about pelvic organ prolapse and urinary disorders, patient examination, and treatment options. To know about the physiology and pathology of women's perimenopausal transition, diagnosis, management, and treatment with hormonal replacement therapy. To be aware of the causes of infertility and the principles of the infertile family's therapy.	The practical part of the workshop takes place in wards, at the reception, in the procedures room, in the operating theatre, and simulator classes. Students, together with the lecturer, take part in presentations of clinical cases. 50% of the time is allotted to self-dependent study. At the end of class the students are questioned orally (practical tasks) or in written form (written quizzes or tests).	Scores for each area: 2 points – demonstrates advanced skills, 1 point – average skills, 0 – fails to demonstrate any skills. If a student collects 2 points for each area, the grade is 10 (excellent).
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.		

Content: breakdown of the topics	Contact hours							Self-study work: time and assignments	
	Lectures	Tutorials	Seminars	Exercises	Laboratory work	Internship/work placement	Contact hours	Self-study hours	Assignments
Introduction				1			1		How to prepare for the exercises and seminars. Information on how students' knowledge and skills will be assessed during the semester and the exam.
1. Examination methods for gynecological patients. Preoperative preparation of the patient, postoperative complications.				3			3	3	History, gynecological exam, PAP smear, colposcopy, ultrasound, HSG, hysteroscopy, laparoscopy. Perioperative care of the patient, preoperative and postoperative nursing.
2. Normal and abnormal sexual development. Neuroendocrine regulation of ovarian function.			2				2	4	To prepare for the workshop about the menstrual cycle, neuroendocrine regulation, and 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. Pediatric and adolescent gynecology. Sexual abuse	2						2	3	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 bleeding. Reasons for PMS, diagnosis, and management.
7. Polycystic ovary syndrome. Hyperandrogenemia.			4				4	4	The diagnostic criteria for PCOS, significance during reproductive age, and 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 menopause, symptoms, and management.
10. Uterine leiomyomas			2				2	2	Classification of leiomyomas, clinical symptoms, diagnosis, and treatment. Case presentation and discussion.
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.
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, and 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.
<b>Total</b>	<b>16</b>		<b>26</b>	<b>24</b>			<b>66</b>	<b>69</b>	

Assessment strategy	Weight (%)	Assessment period	Assessment criteria
<b>Activity during seminars and the assessment of written quizzes and tests</b>	<b>20%</b>	During semester	More than 75% of practical works and seminars (8 from 10) must be attended. There are 8 written quizzes or tests during the semester, all required to pass the exam. The test/quiz consists of 10 questions or clinical cases. The 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.
<b>Practical task</b>	<b>20%</b>	During semester	The practical knowledge and skills are evaluated twice per course by self-performing tasks in the simulator class and giving the answers to practical task tests, including fullness, consistency, and correctness of each answer and skill. The lecturer evaluated how actively the student participated in discussions, formulated questions, analyzed clinical cases, and made critical comments.
<b>Exam: Test</b>	<b>60%</b>	During session	The exam is the final assessment of the knowledge and skills acquired during the exercises, seminars, and lectures. Students must fulfill attendance requirements (>75% of practical works and seminars) and pass all 8 tests and 2 practical tasks, regardless of whether they attended the seminar or not. If students do not pass the test or do not have all the positive grades for the tests (5 or higher) by the exam date, they will not be admitted to the exam and will only be able to take the exam during the retake session.

			<p>The exam consists of 50 multiple-choice questions. The correct answer will be scored 1 mark. The exam is evaluated using grades on a scale from 1 to 10.</p> <p>The meaning of the grades:</p> <p>10: excellent (50-47 correct answers),</p> <p>9: very good (46-43 correct answers),</p> <p>8: good (42-39 correct answers),</p> <p>7: moderate (38-35 correct answers),</p> <p>6: satisfactory (34-30 correct answers),</p> <p>5: weak (29-25 correct answers),</p> <p>0 – 4: does not fulfill minimal requirements (&lt; 25 correct answers).</p>
<b>Total evaluation</b>	<b>100 %</b>	During session	<p>The final mark consists of the total evaluation of the work during the semester (40%) and the theoretical knowledge evaluation on the exam (60%).</p> <p>Marks range from 1 to 10, where 10-excellent, 9-very good, 8-good, 7- highly satisfactory, 6-satisfactory, 5- sufficient, 1-4 insufficient.</p>

Author	Year of publication	Title	No of periodical or vol. of publication	Publication place and publisher or Internet link
<b>Required reading</b>				
Berek J.S.	2011	Berek & Novak's Gynecology. 15 <sup>th</sup> ed.	ISBN:9781451175561	Lippincott Williams & Wilkins
Hoffman B.L.	2016	Williams' Gynecology, 3 ed.	ISBN 978-0-07-184908-1	McGraw-Hill Professional
John Guillebaud, Anne MacGregor	2017	Contraception: Your Questions Answered	ISBN-13: 978-0-7020-4619-3	Elsevier
Alan H. DeCherney, Lauren Nathan, Neri Laufer, Ashley S. Roman	2019	Current Diagnosis & Treatment: Obstetrics & Gynecology, 12ed.	ISBN: 978-0-07-183390-5	McGraw-Hill Education VU Biblioteka, Duomenų bazės, Elektroniniai ištekliai, Medicina, AccessMedicine
<b>Recommended reading</b>				
Metella Dei, Vincenzina Bruni	2023	Paediatric and Adolescent Gynaecology	ISBN:9791280318183	Officina Editoriale Oltrarno
Hugh S. Taylor, Lubna Pal, Emre Seli	2019	Speroff's Clinical Gynecologic Endocrinology and Infertility, 9 ed.	ISBN/ISSN: 9781451189766	Wolters Kluwer
P.J. DiSaia, W.T. Creasman, R.S. Mannel, D. Scott	2017	Clinical Gynecologic Oncology, 9 <sup>th</sup> ed.	ISBN: 978-0-3230-7419-3	Elsevier