



## COURSE UNIT DESCRIPTION

Course unit title	Code
<b>Propaedeutics and Internal Diseases for Dentists</b>	

Lecturer(s)	Department(s)
Coordinating: Assoc. Prof. Violeta Ožeraitienė; Assoc. Prof. Neringa Burokienė  Others: Assoc. Prof. Virginija Gaigalaitė (English groups); Lect.dr.Rimgaudas Staigis (Lithuanian groups)	Institute of Clinical Medicine, Clinic of Internal Diseases, Family Medicine and Oncology (Antakalnio st. 57; Santariškių g. 2,)

Cycle	Level of the course unit	Type of the course unit
Integrated studies	Level I	Compulsory

Mode of delivery	Period of delivery	Language of instruction
Lectures (remotely). Exercises in training rooms and hospital wards (clinical examination of patients in wards)	Spring 6 <sup>th</sup> semester.	Lithuanian, English

Prerequisites and corequisites	
<b>Prerequisites:</b> A student must have completed the following courses: Human Anatomy and Histology, Human Physiology, Biochemistry, Biology and Genetics, Microbiology, Pharmacology, Pathology.	<b>Corequisites (if any):</b> -

Number of ECTS credits allocated to the course unit	Total student's workload	Contact hours	Self-study hours
<b>5</b>	<b>134</b>	<b>67</b>	<b>67</b>

Purpose of the course unit Programme competences to be developed		
The purpose of this study - is to acquire ability to assess the clinical condition of the patient's health, apply general and specific knowledge of medicine in dentist's practice. The dentists will be competent to take a history, carry out physical examination of a patient (inspection, palpation, percussion, auscultation), identify pathological symptoms and syndromes, recognise the most common internal diseases, chronic illnesses and severe conditions, understand the aetiology, pathophysiology, clinical symptoms, know treatment, care techniques and organise further investigations when necessary, communicate with other medical staff and will develop ability to work in a multi-disciplinary team. The student should be able to recognize chronic diseases and severe conditions, to understand their etiology, clinical symptoms, principles of treatment and prevention.		
Learning outcomes of the course unit	Teaching and learning methods	Assessment methods
<b>General competences</b>  At the end of the study programme graduate will be able: <ul style="list-style-type: none"> <li>• to act according ethical and deontological principles, be empathetic,</li> <li>• to think critically and to be creative,</li> <li>• to take the initiative and to communicate effectively with patients and their relatives and</li> </ul>	Active practical teaching / learning methods: During the practice in the departments of the hospital communication and ethics principles with the patients and lecturer are	To assess an ability to communicate with: <ul style="list-style-type: none"> <li>• Patients, patients' relatives</li> <li>• Lecturer</li> <li>• Colleagues, doctors, medical staff.</li> <li>• Disabled people.</li> </ul>

medical staff, and to be able to work in a multidisciplinary team.	implemented and the skills of appropriated professional communication are developed.	Continuous assessment
<b>Subject-specific competences</b>		
<b>Propedeutics of Internal Diseases (first part of course)</b>	Active practical teaching / learning methods:	<b>Propedeutics of internal Diseases</b>
<p><i>After completion of this module the student will be able to:</i></p> <ul style="list-style-type: none"> <li>• To assess the medical condition of the patient's health.</li> <li>• To achieve competency in performing systemic clinical examination of patients with cardiovascular, respiratory, digestive, urinary, endocrine organ diseases.</li> <li>• To diagnose a disease or syndrome, predict follow-up, treatment strategy and communicate with other specialist physicians as needed.</li> </ul> <p><i>Know about:</i></p> <ul style="list-style-type: none"> <li>• Symptomatology of Internal Diseases.</li> <li>• Risk factors, methods of prevention.</li> <li>• The norms of laboratory and instrumental investigations and the semiotics of pathological changes.</li> <li>• Basics of diagnostic criteria, treatment methods, indications.</li> </ul> <p><i>The student will demonstrate:</i></p> <ul style="list-style-type: none"> <li>• The techniques and communicative skills required for comprehensive interview.</li> <li>• The practical skills by oneself /independently assessing clinical symptoms and signs based on Structured History Taking and physical examination of patient (inspection, palpation, percussion and auscultation).</li> <li>• Knowledge of diagnostics of main internal diseases and required follow-up investigation.</li> <li>• Ability to formulate a clinical diagnosis of an internal disease, plan an investigation plan, predict the course and outcome of the disease</li> <li>• Ability to provide first aid in case of acute therapeutical condition</li> </ul>	<ul style="list-style-type: none"> <li>• Practical trainings in hospital wards that enhance physical examination skills in the examination of patients with cardiovascular, hepatic, gallbladder, renal and endocrine diseases.</li> <li>• Analysis of multiple real cases, interpretations of research results, group discussions during practice.</li> </ul> <p>Research methods:</p> <ul style="list-style-type: none"> <li>• Lecture material (problem-based teaching)</li> <li>• Individual learning (literature studies, distance learning: audio, video review, clinical case studies, interactive case studies)</li> <li>• Preparation and presentation of reports, conversations-discussions.</li> </ul>	<p>The assessment is made on a 10-point scale</p> <p>Propedeutics of Internal Diseases (part of course)</p> <ul style="list-style-type: none"> <li>• MCQ - written weekly tests of theoretical knowledge from a previous topic</li> <li>• MCQ –based written Colloquium Test (ITC) and formulation of cumulative grade for this part of course</li> </ul> <p>After second part of this course (Internal Diseases)</p> <ul style="list-style-type: none"> <li>• Written examination</li> <li>• Final assessment of cumulative grades from both parts of subject</li> </ul>
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Topics	Contact work hours							Time and tasks of self-study	
	Lectures	Consultations	Seminars	Practice	Laboratory work	Practical training	Total contact hours	Self-study	Tasks
1. Methodology of careful History Taking (HT) (or anamnesis) including main complaints, history of present illness and past medical history). Introduction into Physical examination (PE) (general and special), palpation, percussion, auscultation. Development of skills acquisition (theoretical and clinical) in practice	2			2			4	4	The student must prepare for the physical examination of the patient: to know framework for the routine clinical examination, to prepare for the interview. Individual studies: • Study of lecture material, textbook, medical literature. • Distance learning (video tutorial: analyse the clinical cases)
2. Methods of Clinical examination of a patient with respiratory disease: inspection, palpation, percussion, auscultation. Diagnostic tests: laboratory, functional, X-ray and instrumental, interpretation of results. Development of skills acquisition (theoretical and clinical) in practice.	2			2			4	4	The student must prepare for the physical examination of the patient: suffering from respiratory diseases. Individual studies: • Study of lecture material, textbook, medical literature. • Distance learning (video and audio tutorial). • Independent consolidation of practical and theoretical skills
3. Methods of Clinical examination of the patient with Cardiovascular diseases: inspection, palpation, percussion, normal and pathological heart auscultation. Examination of peripheral vascular system. Characteristics of radial pulse. Measuring the blood pressure (BP): test description, procedure, classification of BP readings. Pulse pressure.	2			2			4	4	The student must prepare for the physical examination of the patient: suffering from cardiovascular diseases. Individual studies: • Study of lecture material, textbook, medical literature. • Distance learning (video and audio tutorial). Independent consolidation of practical and theoretical skills
4. Investigation of patients with diseases of the cardiovascular system: laboratory and instrumental research methods. ECG norms and basics of pathology. Development of skills acquisition (theoretical and clinical) in practice.	2			2			4	4	The student must prepare for the physical examination of the patient: suffering from cardiovascular diseases. Individual studies: • Study of lecture material, textbook, medical literature. • Self-assessment of ECG analysis (homeworks) Independent consolidation of practical and theoretical skills
5. Methods of Clinical examination of the patient with Gastrointestinal diseases: inspection, palpation, percussion, auscultation of abdomen, special manoeuvres (signs, points). Laboratory and instrumental investigations. Development of skills acquisition (theoretical and clinical) in practice	2			2			4	4	The student must prepare for the physical examination of the patient: suffering from gastrointestinal diseases. Individual studies: • Study of lecture material, textbook, medical literature. • Distance learning (video and audio tutorial). Independent consolidation of practical and theoretical skills.
6. Methods of Clinical examination of the patient with Hepatobiliary diseases: inspection, percussion, palpation of gallbladder, liver and spleen, ascites, special manoeuvres (signs, points). General	2			2			4	4	The student must prepare for the physical examination of the patient: suffering from hepatobiliary diseases. Individual studies: • Study of lecture material, textbook,

signs (stigmata) of liver disease. Laboratory and instrumental investigations. Development of skills acquisition (theoretical and clinical) in practice								medical literature. • Distance learning (video and audio tutorial). Independent consolidation of practical and theoretical skills.	
7. Methods of clinical examination of the patient with Renal diseases: inspection, kidney palpating, testing for costovertebral angle, percussion of distended bladder. Laboratory and instrumental investigations. Development of skills acquisition (theoretical and clinical) in practice	2			2			4	4	The student must prepare for the physical examination of the patient: suffering from renal diseases. Individual studies: • Study of lecture material, textbook, medical literature. • Distance learning (video and audio tutorial). Independent consolidation of practical and theoretical skills.
8. Methods of clinical examination of the patient with Endocrine diseases: inspection, palpation and auscultation of thyroid gland, clinical assessment of thyroid function. Laboratory and instrumental investigations. Development of skills acquisition (theoretical and clinical) in practice.	2	1		2			4	4	The student must prepare for the physical examination of the patient: suffering from endocrine diseases. Individual studies: • Study of lecture material, textbook, medical literature. • Distance learning (video and audio tutorial). Independent consolidation of practical and theoretical skills.
<b>The first part of the course:</b>	<b>16</b>			<b>16</b>			<b>32</b>	<b>32</b>	
9. Respiratory system diseases: bronchitis, bronchial asthma, pneumonias, COPD – characterization of the diseases, classification, aetiology, pathogenesis, clinical signs, diagnostic procedure, the main diagnostic criteria, first aid, principles of treatment, prognosis.	2			2			4	4	Individual study of lecture materials, direct reading, studying of medical literature, interactive cases (online/distance learning). Independent consolidation of practical and theoretical skills.
10. Cardiovascular diseases: ischemic heart disease (angina pectoris, myocardial infarction), main arrhythmias, arterial hypertension, infectious endocarditis, cardiac failure - characterization of the diseases, classification, aetiology, pathogenesis, clinical signs, diagnostic procedure, the main diagnostic criteria, first aid, principles of treatment, prognosis.	2			2			4	4	Prepare for the practical work in the field of the most common cardiovascular diseases, their aetiology, pathogenesis, clinical signs, diagnostic procedure, the main diagnostic criteria, first aid, principles of treatment, prognosis.
11. Digestive system diseases: gastroesophageal reflux disease, ulcerative disease, pancreatitis, cholecystitis, cholelithiasis, hepatitis, liver cirrhosis, ulcerative colitis, Crohn's disease, - characterization of the diseases, classification, aetiology, pathogenesis, clinical signs, diagnostic procedure, the main diagnostic criteria, first aid, principles of treatment, prognosis.	2			2			4	4	Prepare for the practical work in the field of the most common gastrointestinal diseases, their aetiology, pathogenesis, clinical signs, diagnostic procedure, the main diagnostic criteria, first aid, principles of treatment, prognosis.
12. Urinary tract diseases: pyelonephritis, nephropathies, acute and chronic renal failure - characterization of the diseases, classification, aetiology, pathogenesis,	2			2			4	4	Prepare for the practical work in the field of the most common renal diseases, their aetiology, pathogenesis, clinical signs, diagnostic procedure, the main

clinical signs, diagnostic procedure, the main diagnostic criteria, first aid, principles of treatment, prognosis.								diagnostic criteria, first aid, principles of treatment, prognosis.	
13. Endocrinal diseases: diabetes mellitus, hyperthyroidism, hypothyroidism - characterization of the diseases, classification, aetiology, pathogenesis, clinical signs, diagnostic procedure, the main diagnostic criteria, first aid, principles of treatment, prognosis.	2			2			4	4	Prepare for the practical work in the field of the most common endocrine diseases, their aetiology, pathogenesis, clinical signs, diagnostic procedure, the main diagnostic criteria, first aid, principles of treatment, prognosis.
14. Haematological diseases: anaemia's, hemorrhagic syndrome, - characterization of the diseases, classification, aetiology, pathogenesis, clinical signs, diagnostic procedure, the main diagnostic criteria, first aid, principles of treatment, prognosis.	2			2			4	4	Prepare for the practical work the in the field of most common blood diseases, their aetiology, pathogenesis, clinical signs, diagnostic procedure, the main diagnostic criteria, first aid, principles of treatment, prognosis.
15. Neurological diseases: seizure syndrome, headaches, neuralgias, cerebrovascular disorders (stroke, transient ischemic attack), low back pain - characterization of the diseases, classification, aetiology, pathogenesis, clinical signs, diagnostic procedure, the main diagnostic criteria, first aid, principles of treatment, prognosis.	2			2			4	4	Prepare for the practical work in the field of most common neurological diseases, their aetiology, pathogenesis, clinical signs, diagnostic procedure, the main diagnostic criteria, first aid, principles of treatment, prognosis.
16. Serious conditions: sudden death – primary and advanced resuscitation, status epileptics, drug allergy and anaphylactic shock. Status asthmatics - characterization of the diseases, classification, aetiology, pathogenesis, clinical signs, diagnostic procedure, the main diagnostic criteria, first aid, principles of treatment, prognosis. Other important conditions: HIV, tuberculosis, syncope - characterization of the diseases, classification, aetiology, pathogenesis, clinical signs, diagnostic procedure, the main diagnostic criteria, first aid, principles of treatment, prognosis. Consultation before examination.	2			2			7	7	Prepare for the practical work in the field of serious diseases, their aetiology, pathogenesis, clinical signs, diagnostic procedure, the main diagnostic criteria, first aid, principles of treatment, prognosis. Prepare for the written exam.
<b>The second part of the course:</b>	<b>16</b>			<b>16</b>			<b>35</b>	<b>35</b>	
<b>Total of both parts of course</b>	<b>32</b>			<b>32</b>			<b>67</b>	<b>67</b>	

Assessment strategy	Assessment criteria
<p><i>Assessment requirements</i></p> <p>Propaedeutics of Internal Medicine (first part of the course, 8 weeks).</p> <ul style="list-style-type: none"> <li>• Intermediate tests MCQ (short 10 questions from each system weekly)</li> </ul>	<p><b>Propedeutics of Internal Diseases for Dentists (part of course, 8 weeks):</b></p> <p>A student receives a cumulative grade on Propedeutics if is able to independently perform a clinical examination of a patient and has acquired theoretical knowledge, that is, all intermediate tests and colloquium (test) are rated positive (<math>\geq 5</math>).</p>

<ul style="list-style-type: none"> <li>• 1 Colloquium (MCQ test, 40 questions) in ITC</li> <li>• Formulation of cumulative grade for this part of course</li> </ul> <p><b>Internal diseases (part of course, 8 weeks):</b></p> <ul style="list-style-type: none"> <li>• Intermediate settlement self-tests</li> <li>• Written test as Final Exam (with grade for this part of the course)</li> </ul>	<p>Scores are written in the decimal point, leaving two numbers after the decimal point. All marks for intermediate tests are added together but not yet rounded. Cumulative grade for Propaedeutics is obtained by adding the unrounded average of the intermediate tests and the unrounded average of the Colloquium Test, after calculating their average. The final grade (as cumulative of Propedeutics) is rounded according to the mathematical rules.</p> <p>Grade value:</p> <p>10 (excellent) when 9.5-10 points are scored;  9 (very good) with a score of 8.5-9.49;  8 (good) when 7.5-8.49 points are collected;  7 (average), when 6.5–7.49 points are collected;  6 (satisfactory), with a score of 5.5 to 6.49;  5 (weak) when scoring 5.0-5.49 points;  0 (not evaluated), not evaluated because of the breach of procedure or cheating.</p> <p>At the end of the Propaedeutics course there is a Colloquium Test (40 MCQ test from all the previous material, closed type questions, 5 answers have the same value - 0.2 points, several correct answers are possible, but not all. It is necessary to mark the answer "Yes" or "No" next to each answer. If the answer is not marked, it is scored 0.</p> <p>Without passing the Propedeutics course (if at least one intermediate test or colloquium score &lt;5.0), the Final exam cannot be taken.</p> <p>The final grade for Propedeutics and Internal Diseases for Dentists consists of the rounded grades of Propaedeutics (coefficient = 0.5) and Internal Diseases (coefficient = 0.5).</p> <p><b>Internal diseases for Dentists (part of course, 8 weeks):</b>  The exam test in written form consist of 40 MCQ with 5 equal answers. The grade (mark) is averaged to a whole number based on mathematical averaging rules.  The value of grade:  10 (excellent), when collecting 9.5-10 points;  9 (very good), when the score is 8.5-9.49;  8 (good), when collecting 7.5-8.49 points;  7 (highly satisfactory), when score is 6.5-7.49;  6 (satisfactory), when collecting 5.5-6.49 points;  5 (sufficient), when the score is 4.5-5.49;  4 (insufficient), when the score is 3.5-4.49;  3 (insufficient), when the score is 2.5-3.49;  2 (insufficient), when the score is 1.5-2.49;  1 (insufficient), when collecting 1.49 or less points;  0 (not evaluated), not evaluated because of the breach of procedure or cheating.</p>
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Author	Year of publication	Title	No of periodical or vol. of publication	Publication place and publisher or Internet link
<b>Recommended reading (for English students)</b>				
J Alastair Innes; Anna R Dover; Karen Fairhurst	2018	Macleod's clinical examination, 14 <sup>th</sup> ed., p. 402	Elsevier <a href="https://www.clinic">https://www.clinic</a>	Available via VU VPN access.

Swartz M.	2021	Textbook of physical Diagnosis: <b>History and Examination</b> , 8 <sup>th</sup> ed., Elsevier	alkey.com Elsevier <a href="https://www.clinicalkey.com">https://www.clinicalkey.com</a>	Available via VU VPN access.
Nicholas J Talley, Simon O'Connor.	2022	<b>Clinical examination:</b> a systematic guide to physical diagnosis, 9 <sup>th</sup> ed	Elsevier <a href="https://www.clinicalkey.com">https://www.clinicalkey.com</a>	Available via VU VPN access
Sandilands, Euan A, Strachan, Katharine	2021	<b>Macleod's Essentials of Examination,</b>	Elsevier <a href="https://www.clinicalkey.com/student">https://www.clinicalkey.com/student</a>	Prieinamas per VU VPN prieigą.
		<b>UpToDate duomenų bazė</b>		