COURSE UNIT DESCRIPTION

Course unit title	Code
Fundamentals of diagnostics and treatment of oral and dental diseases III/VI	

Lecturer(s)	Department(s)
Coordinating: doc.dr. Rūta Bendinskaitė Others: prof., HP Alina Pūrienė, assoc. prof. Saulius Drukteinis, assoc. prof. Rasmutė Manelienė, prof. dr. Vytautė Pečiulienė, lect. Estera Miliūnienė, lect. Vaida Zaleckienė, lect. Daiva Janavičienė, lect. Jūratė Žekonienė, lect. Giedrius. Krukonis, assoc. prof. Arūnas Rimkevičius, lect. Jurga Zubaitė Maliuk, lect. Paulina Mikalauskiens, lekt. Modesta Domeikaitė, lekt Greta Aidukaitė, lekt Eglė Nedzinskienė	Vilnius University Faculty of Medicine Institute of Odontology Centre of Clinical Odontology

Cycle	Level of the course unit	Type of the course unit
Integrated studies	III/VI	Compulsory

Mode of delivery	Period of delivery	Language of instruction
Face-to-face	3 Year, 5 semester	English

Prerequisites and corequisites	
Prerequisites: A student must have completed the following courses: human anatomy, human physiology, Human biology and fundamentals of genetics in dentistry, Fundamentals of microbiology. Oral ecosystem, public health and dental public health, Latin language and specialty language, Fundamentals of pathology. Fundamentals of radiology: general and dental radiology, Pharmacology. Clinical pharmacology and laboratory medicine. Fundamentals of diagnostics and treatment of oral and dental diseases II/VI	**Corequisites (if any):** It is recommended to study parallel: Prosthodontics, , Fundamentals of anesthesiology and reanimatology. Urgent care

Number of ECTS credits allocated to the course unit	Total student's workload	Contact hours	Self-study hours
10	268	156	112

Purpose of the course unit Programme competences to be developed		
Purpose of the course unit – to develop the ability to diagnose and differentiate dental caries, uncomplicated endodontic and periodontal diseases, to make a treatment plan and to treat them, to manage endodontic emergencies, to control odontogenic pain. To develop the ability to demonstrate a sound theoretical knowledge and understanding of the dental care of patients with special needs, to diagnose and treat plaque induced and non-plaque induced gingival diseases, to use hand instruments for calculus removal. To develop the ability to work in the interdisciplinary team and to maintain their professional knowledge and understanding throughout their professional life. To develop the ability to organise self-study, choosing right strategy to perform the tasks.		
Learning outcomes of the course unit	**Teaching and learning methods**	**Assessment methods**
Will know caries epidemiology, etiology, pathomorfology and	Collecting	

clinics.	information from scientific sources, preparation and presentation of essay, lectures, practice	Testing (open-ended and closed-ended items), essay, assessment of practical work
Will know classification and diagnostics of caries,diseases and status of marginal periodontium, will be competent to choose right.		
Will know		Testing (open-ended and closed-ended items), essay, assessment of practical work, clinical diary
Will be competent to at obtaining and recording a complete history of the patient's medical, oral and dental condition, at performing an appropriate physical examination, diagnosing and differentiating dental caries, endodontic and periodontal status and diseases, to make individual treatment plan.		
Will be familiar with dental care of patients with special needs.		
Will be competent to use a hand instruments for calculus removal.		
Will be competent at diagnosing and treating plaque induced and non-plaque induced gingival diseases.		
Will be competent to manage endodontic emergencies, perform local anaesthesia and control odontogenic pain.		
Will be competent to use acquired knowledge in cariology performing dental caries treatment, restoring teeth, saving sound dental structure, restoring form and function.		
Will be competent to use acquired knowledge in endodontics treating uncomplicated clinical cases in single and multirooted teeth.		

Topics	**Contact work hours**							**Time and tasks of self-study**	
	Lectures	Consultations	Seminars	Practice	Laboratory work	Practical training	**Total contact hours**	**Self-study**	**Tasks**
Etiology, epidemiology, classification of dental caries	2			13			**15**	**10**	To prepare and present an essay on prevalence of dental caries in Europe and the world,
Manifestation and pathomorpholgy of dental caries	2			10			**12**	**10**	To prepare and present an essay on pathomorphological changes in enamel and dentin caused by dental caries.
Diagnostics and differential diagnostics of dental caries.	2			15			**17**	**10**	To prepare and present an essay on the risk factors of dental caries.
Etiological treatment of dental caries.	2			10			**12**	**10**	To study diet analysis technique and to adapt it to the individual.
Diagnostics, differential diagnostics and treatment of endodontical diseases.			2	24			**24**	**26**	Analysis of scientific literature, preparation and presentation of essay.
Classification and diagnostic of marginal periodontal status and diseases	**2**			10			**12**	**10**	To study microbiological diagnostics of periodontal diseases
Treatment planning for patients with periodontal diseases. Risk factors of recurrent periodontal diseases, prognosis	**2**			10			**12**	**10**	To study scientific literature about medicinal treatment of gingivitis. Oral care of patients with special needs.
Diseases of the gingiva: clinical symptoms, evaluation, differentiation, and treatment.	**2**			20			**22**	**10**	
Periodontitis: clinical symptoms, evaluation, differentiation, and treatment.	**2**			10			**12**	**10**	

Occupational risk factors in dentistry. Professional ailments of doctors and dentists: physical and psychological health disorders, prevention	**2**						**2**	**2**	
Basic requirements for correct work. Correct patient chair, dentist chair and patient position. Four-handed dentistry: aspiration, tissue retraction, the use of a pad during the assistant's work, the exchange of instruments between the doctor and the assistant, instrument sequence.	**2**		**2**	5			**9**	**5**	To be able to correctly position parts of the doctor's and patient's equipment, to master four-handed dentistry
Magnification in dentistry. Proper lighting, ergonomic work tools. Instrument holding: pencil, modified pencil, palm type. Hand, finger support	**2**			1			**3**	**3**	
Design and installation of an ergonomic dental office			**2**					**5**	Prepare for the presentation on the given topic
Iš viso	**22**		**6**	**128**			**156**	**112**	

Assessment strategy	Weight (%)	Assessment period	Assessment criteria
Accumulative assessment (all components of the cumulative score must be maintained at no less than 5) Obligatory attendance of seminars and practice			
Test	60%	During semester	The test consists of open-ended questions or a clinical situation or definition. The test is carried out during the practice, at least 1 week after the lecture corresponding to the test questions. Students are introduced to the subject of written tests and lectures in advance. The overall test score is written by summing up the points of the individual questions and dividing it by the number of questions. The minimum passing score for each test is 5.0. Failed tests are allowed to be retaken once during the semester. The grade for the test is the average of the first attempt and the second attempt. If this average is less than 5, but the second attempt is 5.0 or more, 5 points are written. The total score of the test is written at the end of the semester, summing up the average of all the test scores performed and dividing it by the number.
Essay	10%		- clarity of ideas, quality of arguments (2 points); - structure of essay (2 points); - style and quality of scientific language (2 points); - quality (valid and reasonable) of conclusions (2 points). - visual quality of material presented (2 points). An essay is prepared on given topic. Teacher assesses an essay and it is presented in the cyberspace. The final score is written at the end of the semester as an average score of all essays prepared.
Assessment of practical work	30%		Assessment methods and minimal requirements of practical work please find in the attachment

Author	Year of publication	Title	No of periodical or vol. of publication	Publication place and publisher or Internet link
Required reading				
Mahmoud Torabinejad, Richard E Walton, Ashfraf F. Fouad	2015	Endodontics: Principles and Practice, 5th ed.		https://www.clinicalkey.com/#!/browse/book/3-s2.0-C20110051827
Stephen Cohen, Kenneth M. Hargreaves	2016	Pathways of the Pulp, 11th ed.		https://www.clinicalkey.com/#!/browse/book/3-s2.0-C20110085009
Ritter A.	2019	Sturdevant‘s art and science of operative dentistry. 7th ed.,		St. Louis, MOSBY

Shwartz R.S.	2006	Fundamentals of Operative Dentistry: A Contemporary Approach, p. 141-186.		Quintessence
Anusavice K.J.	2013	Philip's science of dental materials, 12 chapter		https://www.clinicalkey.com/#!/content/book/3-s2.0-B9781437724189000125
Newman, Michael G	2015	Carranza's Clinical Periodontology, **Twelfth Edition**	12th	https://www.clinicalkey.com/#!/browse/book/3-s2.0-C2012007634X
Recommended literature				
Shwartz R.S.	2006	Fundamentals of Operative Dentistry: A Contemporary Approach		Quintessence
Pallesen U., Dahl J.E.	2003	Tooth bleaching—a critical review of the biological aspects.	14(4):292-304	Crit Rev Oral Biol Med; http://cro.sagepub.com/content/14/4/292.full.pdf+html
J. Lindhe, N. P. Lang, T. Karring.	2015	Clinical Periodontology and Implant Dentistry. 6th edition, 12,18,19,32,38 chapters;		Blackwell Munksgaard;