



COURSE UNIT DESCRIPTION

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

Lecturer(s)	Department(s)
Coordinating: prof. V. Pečiulienė Others: prof., HP Alina Pūrienė, assoc. prof. Saulius Drukteinis, assoc. prof. Rasmūtė Manelienė, assoc. prof. Rūta Bendinskaitė, lect. Estera Miliūnienė, lect. Vaida Zaleckienė, lect. Daiva Janavičienė, lect. Jūratė Žekonienė, lect. Giedrius Krukonis, assoc. prof. Arūnas Rimkevičius, lect. Giedrė Janaruskaitė, lect. Paulina Mikalauskiens	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. : Propedeutics of internal medicine and internal diseases, 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	162	106

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 be able to apply the principles of the enamel and dentin adhesion in clinical praxis. Will acquire knowledge in tooth bleaching materials,	Collecting information from scientific sources,	Testing (open-ended and closed-ended items), essay, assessment of practical work

procedures and side effects and will be able to perform bleaching.	preparation and presentation of essay, lectures, practice	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 multirrooted 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
Principles of aesthetic restoration			2	20				10	To prepare and present an essay about materials and techniques for aesthetic restorations
Teeth bleaching			2	10				10	To analyze and describe the methods of home and office teeth bleaching. To prepare and present info bulletin on side effect of teeth bleaching.
Endodontic retreatment. Epidemiological aspects. Etiology and factors which can influence the outcome of procedure. Differences in primary root canal and retreatment procedures. Diagnostic procedures and treatment planning Analysis of clinical cases.	2		2	20				10	
Indications and principles of use of dental microscope and ultrasound instruments in endodontic retreatment. Treatment of perforation basic principles, factors which have influence on the outcome of procedure, bioceramic for treatment of perforation.	2			20				10	To prepare and present an essay on the ultrasound instruments used in endodontic treatment: its design, advantages and disadvantages
Principles of endodontic retreatment of teeth which were rootfilled previously with gutta-percha. Choose of instrument and devices. Management of previously formed ledges in the root canal.	2			14				10	To prepare and present an essay on the differences in the prognosis of primary endodontic treatment and endodontic retreatment
Principles of endodontic retreatment of teeth which were rootfilled previously with hard setting materials or russian red material. Choose of instrument and	2			14				6	To prepare and present an essay on possibilities to do implantation after unsuccessful primary endodontic treatment and endodontic retreatment

devices. Removal of different kind of posts and silver cones.							
Treatment planning of patients with periodontal diseases			10				10
Diagnostic of periodontal diseases			10				10
Gingival status and diseases: conservative treatment			20				20
Oral care of patients with special needs			10				10
							To prepare and present an essay on oral care of children, teenagers, gerontologic and disabled patients, pregnant woman.
Total	8	6	148			162	106

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. Failed tests are allowed to be retaken once during the semester. 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%		<ul style="list-style-type: none"> - 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, Ashraf 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
Roberson T.M	2006	Sturdevant's art and science of operative dentistry. 5th ed., p. 243-280, 640-647.		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;