



COURSE UNIT DESCRIPTION

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

Lecturer(s)	Department(s)
Coordinating: assoc. Prof Rasmute Maneliene Others: prof., HP Alina Pūrienė, assoc. prof. Saulius Drukteinis, assoc. prof. Rasmūtė Manelienė, assoc. prof. Rūta Bendinskaitė, assoc. prof. Estera Miliūnienė, assist.prof. Vaida Zaleckienė, assist. prof. Daiva Janavičienė, assist. prof. Jūratė Žekonienė, assist. prof. Giedrius Krukonis, assist.prof. Arūnas Rimkevičius, assoc. Prof. Vilma Brukienė, assist. Prof. Lina Džiaugytė	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	V/VI	Compulsory

Mode of delivery	Period of delivery	Language of instruction
Face-to-face	4 Year, 7 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 IV/VI, , Fundamentals of neurology	Corequisites (if any): It is recommended to study parallel: Prosthodontics III/IV, Oral surgery II/II, Research methodology I/III

Number of ECTS credits allocated to the course unit	Total student's workload	Contact hours	Self-study hours
15	402	229	173

Purpose of the course unit Programme competences to be developed
Purpose of the course unit – to develop the ability to demonstrate a sound theoretical knowledge and understanding of the root canal retreatment indications, methods, instruments and devices, the prognosis of endodontic retreatment and its influencing factors, strategies in choosing the alternative treatment methods, its advantages and disadvantages. To develop the ability to demonstrate a sound theoretical knowledge and understanding of etiology, pathogenesis, diagnosis, differentiation and treatment principles of noncarious lesions of the hard dental tissues, to develop the ability to choose them independently and apply in practice. To develop the ability to demonstrate a sound theoretical knowledge and understanding of indications, contraindications, advantages and disadvantages of different techniques of surgical treatment of periodontal diseases. To develop the ability to organize self-study, choosing right strategy to perform the tasks. To develop the ability to meet the most common oral health needs of infants, children and adolescents (oral diagnostics, treatment planning, preventive and treatment procedures), to continue to seek additional knowledge and skills

throughout the careers. To develop the ability to communicate with patients irrespective of their social and cultural background.		
Learning outcomes of the course unit	Teaching and learning methods	Assessment methods
Will acquire knowledge and understanding in the choice of endodontic retreatment strategies depending on the type of filling material, the condition of the periapical and marginal periodontal tissues.	Collecting information from scientific sources, preparation and presentation of essay, lectures, practice	Testing (open-ended and closed-ended items), essay, assessment of practical work
Will acquire knowledge in the indications and principles of use of dental microscope and ultrasound instruments in endodontic treatment procedures and will be able to apply them in clinical praxis.		
Will acquire knowledge and understanding in the prognostication factors of endodontic treatment outcome, the advances and disadvantages of endodontic treatment vs dental implants and its indications.		
Will acquire knowledge in etiopathogenesis, epidemiology, classification, diagnosis, differentiation and treatment principles of noncarious lesions of the hard dental tissues.		
Will be familiar with and competent at explaining for the patient indications, contraindications, various methods and techniques, their advantages and disadvantages of periodontal surgery, post-surgical care.		
Demonstrate an appropriate information literacy to acquire and use information from library and other databases and display the ability to use this information in a critical, scientific and effective manner.	Lectures, group discussion, self-study.	Presentation.
Communicate effectively, interactively and reflectively with paediatric patients and their families irrespective of social and cultural background.	Lectures,, clinical situation analysis, group discussion, clinical work with patients.	Continuing assessment of clinical work, presentation.
Obtain and record a complete history of the child's medical, oral and dental state; to evaluate the oral and dental condition in children; to interpret the findings and organize further investigations when necessary; to formulate a diagnosis and treatment plan.	Lectures, clinical situation analysis, group discussion, clinical work with patients.	Continuing assessment of clinical work, practice journal, test.
Administer local anaesthesia in the oral cavity of children; to recognise and manage potential complications of local anaesthesia in children.		
Assess caries risk in paediatric patients; to plan and implement an individual caries prevention program in children; to provide fissure sealing.		
Manage uncomplicated and complicated caries in primary and mixed dentition; to provide a non-operative and minimally invasive treatment of dental caries; to restore primary teeth using preformed metal crowns.		
Apply non pharmacological behaviour management techniques for the cooperative child.	Lectures, clinical situation analysis, group discussion, clinical work with patients, self-study.	

Topics	Contact work hours						Time and tasks of self-study		Tasks
	Lectures	Consultations	Seminars	Practice	Laboratory work	Practical training	Total contact hours	Self-study	
Demographic aspects of aging.	2			6			16		
The aging process and common systemic states	4			6			18	10	To prepare and present an essay on common systemic states in aging population
Aging of the oral complex and oral health of the elderly	4			6			14	10	To present clinical case with the final aim of treatment
Elderly social care aspects	2			6			12	10	Reading of additional literature
Oral health care, provision and maintenance for the elderly	4			8			14	10	To present clinical case with the final aim of treatment
Dental caries diagnosis, differential diagnosis and treatment			2	26			14	10	Reading, analysing, of scientific literature and preparing and presenting of essay.
Diagnosis, differential diagnosis and treatment of endodontic diseases			4	26			18	16	
Epidemiology, etiology, risk factors, treatment planning of mucogingival defects	2		2	12			6	10	To prepare and present review on assigned topic. Reading of additional recommended literature, preparation of a presentation in a field of paediatric dentistry.
Interdisciplinary Relationship: Perio-Endo, Perio- orthodontic, Perio-Orthopedics	2			12			6	10	
Classification of peri-implant lesions, clinic, epidemiology, treatment planning, solutions.	2			10			4	10	
Periodontitis and systemic diseases	2			14			8	10	
1.Growth and development of the dentition.			2				2	6	
2. Management of caries in primary and mixed dentition.	2			18			20	12	
3. Local anaesthesia in paediatric dentistry.			3	2			5	6	
4. Behaviour management in paediatric dentistry.	2			2			4	6	
5. Non-operative and minimally invasive treatment of caries in primary and mixed dentition.	2			4			6	10	
6. Dental materials in paediatric dentistry.			2				2	4	
7. Preformed metal crowns for primary teeth.			2	2			4	5	
8. Endodontic treatment of primary teeth.	2			18			20	12	
9. Management of pulp pathology in immature permanent teeth.	2			2			4	6	
Total	34		15	180			229	173	

Assessment strategy	Weight (%)	Assessment period	Assessment criteria
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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.
Assessment of practical work	40%		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				
P.Halm-Pedersen, A.W.G Wells, J.A. Ship	2015	Textbook of geriatric dentistry. 3th ed.		Wiley-Blackwell
P.K Friedman	2014	Geriatric dentistry- caring for our aging population.		Wiley-Blackwell
Roberson T.M	2006	Sturdevant's art and science of operative dentistry. 5th ed.		St. Louis, MOSBY
J. Lindhe, N. P. Lang, T. Karring.	2015	Clinical Periodontology and Implant Dentistry,6th edition,11,23,25,28,41,42,45,46,58 skyriai		Wiley-Blackwell
R. Welbury, M.S.Duggal, M.T.Hosey	2012	Paediatric dentistry, 4 th ed.; p:1-198		Oxford University Press
Recommended literature				
J. A.Ship	2011	Clinicians guide to oral health in general patiens.		American academy of oral medicine
M.I. MacEnter, F.Muller, C. Wyatt	2011	Oral Healthcare and the frail elder: a clinical perspective		Wiley - Blackwell
Stephen Cohen, Kenneth M. Hargreaves	2016	Pathways of the Pulp, 11th ed.		https://www.clinicalkey.com/#/browse/book/3-s2.0-C20110085009
Newman, Michael G.	2015	Carranza's Clinical Periodontology, Twelfth Edition		https://www.clinicalkey.com/#/browse/book/3-s2.0-C2012007634X
				http://onlinelibrary.wiley.com/journal/10.1111/(ISSN)1600-0757
				http://onlinelibrary.wiley.com/journal/10.1111/(ISSN)1600-051X
				http://onlinelibrary.wiley.com/journal/10.1111/(ISSN)1834-7819
				http://onlinelibrary.wiley.com/journal/10.1111/(ISSN)1600-0501
P.S.Casamassimo, D.J.McTigue, H.W.Fields, Jr, A.J.Nowak	2013	Pediatric Dentistry. Infancy through adolescence		Elsevier Saunders
G.Koch, S. Poulsen	2009	Pediatric dentistry-a clinical approach; p: 1-165, 183-211, 233-262.		Wiley-Blackwell
C. H. Splieth	2011	Revolutions in Pediatric Dentistry		Quintessence Publishing