



## COURSE UNIT DESCRIPTION

Course unit title	Code
<b>Orthodontics</b>	<b>ORTD 3115</b>

Lecturer(s)	Department(s)
Coordinating: Prof. Laura Linkevičienė Lect. Ruta Almonaitiene. Lect. Vilija Berlin	Institute of Odontology Faculty of Medicine Vilnius university, Žalgirio str. 117, Vilnius

Cycle	Level of the course unit	Type of the course unit
Integrated studies	1 of 2	Compulsory

Mode of delivery	Period of delivery	Language of instruction
Face-to-face	semester VIII	english

Prerequisites and corequisites	
<p><b>Prerequisites:</b> A student must have completed the following courses: human anatomy, human histology, human biology and fundamentals of genetics in dentistry, latin language and specialty language, physiology, public and dental health, fundamentals of microbiology, oral ecosystem, fundamentals of pathology, fundamentals of diagnostics and treatment of oral and dental diseases I,II, III, IV, fundamentals of professional communication and psychosomatics, psychiatry, fundamentals of radiology: general and dental radiology, pharmacology, clinical pharmacology and laboratory medicine, fundamentals of diagnostics and treatment pediatric diseases, fundamentals of anesthesiology and reanimatology, urgent care, fundamentals of neurology.</p>	<p><b>Corequisites (if any): none</b></p>

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>66</b>	<b>68</b>

Purpose of the course unit Programme competences to be developed		
Purpose – to develop a professional attitude of dental specialty students, self-sufficiency and familiarisation, knowledge and competency to diagnose orthodontics anomalies, to know indications and contraindications of orthodontics appliances, clinical management, to train ability to communicate with patients irrespective of their social and cultural background, to effectively present the treatment plan, procedures, alternatives and possible complications to the patients, to continue to seek additional knowledge and skills throughout the careers.		
<p><b>Learning outcomes of the course unit</b> After completion of this course student will be competent to:</p>	<p><b>Teaching and learning methods</b></p>	<p><b>Assessment methods</b></p>

Will be able to: communicate with patient respectively and constructively, according to ethical and law standards; manage all medical documentation and follow hygiene standards.	Consultations, clinical situation analysis, group discussion, debates, clinical work with patients.	Clinical task (OSCE evaluation), test
Will be able to evaluate orthodontics patient: interview, medical and dental history, evaluation of oral health, jaw and occlusal function, make casts and cephalometric analysis.	Consultations, clinical situation analysis, debates, clinical work with patients, self-study.	Clinical task (OSCE evaluation), test, presentation
Will know the principles about clinical and laboratory stages, indications and contraindications of orthodontics appliance	Consultations, clinical situation analysis, preclinical course	Test
Will be able: to take the diagnostics impressions, make diagnostics casts, adjust orthodontics bands and retention appliances, make a cephalometrical analysis, diagnostics test for diagnostics casts, to fix and remove the wire from braces.	Consultations, clinical situation analysis, preclinical course	Clinical task (OSCE evaluation)

Topics	Contact work hours						Time and tasks of self-study		
	Lectures	Consultations	Seminars	Practice	Laboratory work	Practical training	Total contact hours	Self-study	Tasks
Discipline of orthodontics, epidemiology of malocclusion, orthodontic treatment need	4		4			6		12	To prepare and present the face and oral evaluation of orthodontics patient, make radiological and casts analysis, to make the diagnosis.
Removable orthodontics appliances: categories, components of orthodontics appliances, clinical management, indications and limitations	2		2			6		12	To observe fabrication of orthodontics appliances in the dental laboratory.
Fixed orthodontics appliances, categories, components of orthodontics appliances, clinical management, indications and limitations	2		4			6		12	To analyse available data and prepare review about fixed orthodontics appliances types, components, comparing advantages and disadvantages of various systems.
Sagittal, transversal, vertical orthodontics anomalies, treatment planning principles	4		4			8		12	

according to patients age and complexity of anomalies								
Treatment strategies of complex orthodontics anomalies	6		4			6		10
<b>Total</b>	<b>16</b>		<b>18</b>			<b>32</b>	<b>66</b>	<b>68</b>

Assessment strategy	Weight (%)	Assessment period	Assessment criteria
<b>Accumulative assessment</b> <b>(all components of the cumulative score must be passed above score 5)</b> <b>Obligatory attendance of seminars and practice</b>			
Test	35%	During semester	<p>The test consists of open-ended questions or a clinical situation or definition.</p> <p>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.</p> <p>The overall test score is written by summing up the points of the individual questions and dividing it by the number of questions.</p> <p>The minimum passing score for each test is 5. Failed tests are allowed to be retaken once during the semester.</p> <p>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.</p>
Essay	35%		<ul style="list-style-type: none"> <li>- clarity of ideas, quality of arguments (2 points);</li> <li>- structure of essay (2 points);</li> <li>- style and quality of scientific language (2 points);</li> <li>- quality (valid and reasonable) of conclusions (2 points).</li> <li>- visual quality of material presented (2 points).</li> </ul> <p>An essay is prepared on given topic. Teacher assesses an essay and it is presented in the cyberspace.</p> <p>The final score is written at the end of the semester as an average score of all essays prepared.</p>
Assessment of practical work	30%		Assessment methods and minimal requirements of practical work please find in the attachment
<b>Exam</b> <b>(both components must be passed above 5 points)</b>			
Test, open questions	100%	During examination session	<p>Open questions, clinical situations</p> <p>Closed-ended and open - ended questions. 50% type I, one correct answer from 4, 40% type II, 2-3 correct answers from 5, 10% type III clinical situation or description. Every answer is evaluated 0 or 10 points.</p> <p>Total points for test: the sum of all points divided from number of questions.</p>

			Examination is considered to be passed if correct answer is given to 50%. and more questions. 91-100 percent - 10 points (excellent); 81-90 percent - 9 points (I. Well); 71-80 percent - 8 points (good); 61-70 percent - 7 points (average); 56-60 percent - 6 points (satisfactory); 50-55 percent - 5 points (weak); 41-49 percent - 4 points (unsatisfactory); 31-40 percent - 3 points (unsatisfactory); 21-30 percent - 2 points (unsatisfactory); 11-20 percent - 1 point (unsatisfactory); 0-10% - 0 points (not rated).
<b>Final assessment</b>			
Exam	90%	During examination session	The score of the exam consists of the theoretical part of the exam.
Accumulative score	10%		Accumulative score: the average of sum of all scores received for all tests, essays and assessments of practical work during 2 semesters

Author	Year of publication	Title	No of periodical or vol. of publication	Publication place and publisher or Internet link
<b>Required reading</b>				
W.R.Proffit	2010	Contemporary ortodontics		Mosby
R. Nanda, S. Kupla	2010	Current therapy in Orthodontics		Mosby
e-journal		Seminars in Orthodontics		Clinical Key database
<b>Recommended reading</b>				
F. McDonald and A. J. Ireland	2008	Diagnosis of the Orthodontic Patients.		Oxford university press
Th. Graber	2008	Orthodontics current principles and techniques		Mosby

