COURSE UNIT DESCRIPTION

Course unit title	Code
Prosthodontics IV/IV **Prosthetic rehabilitation of periodontal patient, temporomandibular disorders (TMD) and pathological teeth wear**	

Lecturer(s)	Department(s)
Coordinating: Assist. Prof. Rolandas PLETKUS Others: Assoc. Prof. dr. Vygandas RUTKŪNAS Assist. Prof. Vytenis ALMONAITIS Prof. dr. Tomas LINKEVIČIUS Assist. Prof. Rita TRUMPAITĖ - VANAGIENĖ Assist. Prof. dr. Eglė VINDAŠIŪTĖ - NARBUTĖ Assist. Prof. Agnė GEDRIMIENĖ	Institute of Odontology, Faculty of Medicine, Vilnius University

Cycle	Level of the course unit	Type of the course unit
cycle (integrated studies)	4 from 4	Compulsory

Mode of delivery	Period of delivery	Language of instruction
Auditorial	IV year, VIII semester	Lithuanian

Prerequisites and corequisites	
Prerequisites: Student must have completed all previous courses according to the study program, including: human anatomy, human physiology, general and human genetics, pathology, microbiology, public health, conservative dentistry and periodontology, dental materials, prosthodontics, prevention of oral diseases, fundaments of radiology, pharmacology, oral pathology, oral surgery, speciality language	**Corequisites (if any):** A student must have fulfilled all minimal clinical requirements in Prosthodontics listed up to this semester. All presentations and clinical tasks from previous semesters should be evaluated with passing score.

Number of ECTS credits allocated to the course unit	Total student's workload	Contact hours	Self-study hours
5	137	83	54

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 and treat TMD, pathological teeth wear properly and on time; to carry out prosthetic rehabiliation of periodontal patient, 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.

Learning outcomes of the course unit	Teaching and learning methods	Assessment methods*
Will be able to: communicate with patient respectively and constructively, according to ethical and law standards; manage all medical documentation and follow hygiene standards.	Lectures, analysis of clinical cases, self-study, consultations, clinical practice	Tests (multiple-choice questions, short note) Clinical minimal requirements
Will be knowledgeable how to recognize different TMS and pathological teeth wear.	Lectures, analysis of clinical cases, self-study, consultations, laboratory work,	Tests (multiple-choice questions, short note); Tasks during the involving lectures; Clinical station (OSCE)
Will be knowledgeable about complex treatment of TMD, pathological teeth wear and periodontal patients.		
Will be knowledgeable about indications and		

contraindications of prosthodontics and rationale of treatment planning, mouth preparation, prosthesis types and construction.	clinical practice	
Will be able to make stabilizing occlusal splint and effectively communicate with dental technician	Lectures, discussions in small groups (problem-based learning), analysis of clinical cases, self-study, consultations, clinical practice	Clinical station (OSCE) Clinical minimal requirements
Will be able to do a comprehensive examination of oral status while using proper diagnostic instruments and measures; to evaluate prognosis of individual teeth and plan the design following evidence-based principles as much as possible.		
Will be able to present preliminary and alternative treatment plans to the patient, to implement mouth preparation procedures and to consult with specialists from other disciplines effectively		

* - list of minimal clinical requirements is presented in Appendix 1.

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. The stages of treatment of periodontal patient. Prognosis of periodontally compromised teeth.	2	2	1	9			**14**	**8**	To prepare a presentation about comprehensive examination and prosthetic rehabilitation of periodontal patient, TMD and pathological teeth wear following evidence-based approach.
2. Teeth mobility, diagnosis and treatment. Occlusal trauma and its influence on periodontitis.	2		1	9			**12**	**8**	
3. Design of fixed prostheses. Biological width. Crown lenghtening procedure.	2			9			**11**	**8**	
4. TMD definition, classifications. Muscular disorders: etiology, pathogenesis, diagnostics and treatment principles.	2	2		9			**13**	**8**	
5. Joint disorders: etiology, pathogenesis, diagnostics and treatment principles, differential diagnosis.	2		1	9			**12**	**8**	
6. Occlusal splint therapy. Clinical and laboratory aspects.	2			9			**11**	**7**	
7. Pathological teeth wear: diagnosis, etiology, pathogenesis, differential diagnosis. Prophylaxis and treatment of pathological teeth wear.	2		1	7			**10**	**7**	
Total	**14**	**4**	**4**	**61**			**83**	**54**	

Assessment strategy	Weight (%)	Assessment period	Assessment criteria
Accumulative assessment (all components of the cumulative score must be passed no less than score 5)			

Obligatory attendance of seminars and practice			
Test	60%	During semester	The test consists of open- and close-ended questions. The test is carried out during the lectures and/or seminars. Students are introduced to the subject of tests and lectures in advance. The value of the open-ended question is 10, and of close-ended question - 1. The score of the test is calculated as the proportion of the correct answers, presented in the ten-point system. 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.
Presentation	10%		Assessment criteria: - Structure, coverage, quality of visual material (2 points); - Clarity of presented knowledge, argumentation, raising of key questions (2 points); - Presentation of conclusions and analysis (2 points); - Clinical recommendations (2 points); - Discussion, management of questions, time managements (2 points). Minimal passing score – 5.
Assessment of practical work	30%		Assessment is based on the number of performed minimum clinical procedures. Clinical minimum procedures and their evaluation criteria are presented in the appendix.
Exam (must be no less than score 5)			
Test	100%	During examination session	Test consists of open -ended and three types of closed-ended questions: type I - one correct answer from presented, type II - 2 or 3 correct answers from presented, and type III - when schematic drawing, photo, clinical situation, descriptions etc. are used with presented choices. The value of the open-ended question is 10, and of close-ended question - 1. The score of the test is calculated as the proportion of the correct answers, presented in the ten-point system. 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 (l. 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).
Final assessment			
Exam:	50%		The score of the exam consists of the theoretical part of the

Accumulative score	50%	During examination session	exam. The accumulative score is calculated as the average of accumulative scores from two semesters

The final assessment will be calculated by the formula:
FA=((CA1+CA2)/2+EX)/2 where:
FA- final assessment
CA1, CA2 - accumulative assessments from two semesters
EX - exam score

Author	Year of publication	Title	No of periodical or vol. of publication	Publication place and publisher or Internet link
Required reading				
Jan Lindhe, Thorkild Karring, Niklaus P. Lang	2003	Clinical periodontology and implant dentistry. 4. ed.	352-366, 414-434, 705-731 731-744 p.	Copenhagen : Munksgaard
Gunnar E. Carlsson, Tomas Magnusson	1999	Management of temporomandibular disorders in the general dental practice	9-123 p.	Chicago : Quintessence Pub.
Okeson, Jeffrey P.	2003	Management of tempomandibular disorders and occlusion 5. ed.	147-365 p.	St. Louis: Mosby
Rosentiel S. F., Land M. F. Fujimoto J.	2002	Contemporary fixed prosthodontics.3. ed.	513-543 p.	St. Louis : Mosby-Year Book
Addy M, Embery G, Edgar WM, Orchardson R, editors	2000	Tooth wear and sensitivity - clinical advances in restorative dentistry. 1st ed.	10-180 p.	London: Martin Dunitz
Bernal G, Carvajal JC, Muñoz-Viveros CA	2002 Nov 15;3(4):	A review of the clinical management of mobile teeth. Review	10-22 p.	J Contemp Dent Pract.
Recommended reading				
Herbert T. Shillingburg	1997	Fundamentals of fixed prosthodontics. 3. ed.	211-225 p.	Chicago: Quintessence Pub. Co.
Kanno T, Carlsson GE....	2006 Nov;33(11)	A review of the shortened dental arch concept focusing on the work by the Käyser/Nijmegen group. Review	850-862 p.	J. Oral Rehabil
Articles and books related to subject available through subscribed databases of Library of Vilnius University: http://www.mb.vu.lt/istekliai/				