

COURSE UNIT DESCRIPTION

Course unit title	Code
Prosthodontics (III/IV) Implant and complex cases prosthodontics	

Lecturer(s)	Department(s)
Coordinating: Assist. Prof. Rita TRUMPAITĖ - VANAGIENĖ Others: Assoc. Prof. Vygandas Rutkūnas Lect. Rolandas PLETKUS Assist. Prof. Vytenis ALMONAITIS Prof. Tomas LINKEVIČIUS Assoc. Prof. Egle VINDAŠIŪTĖ - NARBUTĖ Assist. Prof. A. GEDRIMIENĖ Teaching assist. Justinas PLETKUS Lect. Paulius ANDRIJAUSKAS Lect. Kristina LANDZBERGIENĖ Lect. Julius DIRSĖ	Institute of Odontology, Faculty of Medicine, Vilnius University

Cycle	Level of the course unit	Type of the course unit
cycle (integrated studies)	3 from 4	Compulsory

Mode of delivery	Period of delivery	Language of instruction
Auditorial	VII semester	English

Prerequisites and corequisites	
Prerequisites: A student must have completed the following courses: human anatomy, human physiology, general and human genetics, pathology, microbiology, public health, conservative dentistry and periodontology, dental materials, orthopaedic odontology, prevention of oral diseases, fundamentals of radiology, pharmacology, oral pathology, oral surgery, speciality language. A student must have completed the following courses and passed examinations: - Complete dentures, Removable partial dentures - Fixed Prosthodontics	Corequisites (if any): A student must fulfilled all minimal clinical requirements listed up to this semester.

Number of ECTS credits allocated to the course unit	Total student's workload	Contact hours	Self-study hours
5	133	79	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 restore dental implants, to be knowledgeable in maxillofacial prosthodontics, make restorations in children; 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. Competences to be developed: professional attitude, interpersonal communication and social skills, knowledge base information and information literacy, clinical information gathering, diagnosis and treatment planning, therapy: establishing and maintaining oral health, prevention and oral health promotion.

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, seminars in small groups, analysis of clinical cases, self-study, consultations, clinical practice	Tasks during the involving lectures; Clinical station (OSCE evaluation)
Will be knowledgeable about stages of patient examination, indications and contraindications of implant prosthodontics and rationale of treatment planning, implant types, their parts, construction elements.		
Will be knowledgeable about clinical and laboratory stages of implant restorations and relevant dental materials		
Will be knowledgeable about peculiarities of adaptation, follow-up, corrections dental implant restorations, possible complications and their solutions		
Will be knowledgeable about indications and contraindications of maxillofacial prosthetics, the types and parts of prostheses.	Lecture	Tasks during the involving lectures;
Will be knowledgeable about indications and contraindications of prosthodontics in children, types and construction parts of prostheses.		
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 implants; plan the design of implant restorations following evidence-based principles as much as possible.	Lectures, seminars and discussions in small groups (problem-based learning), analysis of clinical cases, self-study, consultations, clinical practice	Tasks during the involving lectures; Clinical station (OSCE evaluation); Clinical minimal requirements
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		
Will be able to make impressions from implants, connect their parts, make casts, mount the casts on articulator, to analyze and effectively communicate with dental technician		

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. Treatment planning in implant prosthodontics.	2	1	2	8			12	30	To analyse available data and prepare review about implant types, construction parts, comparing advantages and disadvantages of various implants.
2. Osseointegration and soft tissue integration. Types of implants and biomechanics.	2			8			10		
3. Fixed and removable implant-supported prostheses.	2		2	8			12		
4. Implant-abutment connections	2			9			11	24	To analyse available data and prepare review about fixed and removable implant-supported restorations, their types, indications and contraindications, peculiarities of manufacturing.
5. Factors, which influence crestal bone loss around implants	2			9			11		
6. Clinical steps of implant prosthodontics	2			9			12		

7. Complications of implant-supported restorations	2			9			11		
	14	1	4	60			79	54	

Assessment strategy	Weight (%)	Assessment period	Assessment criteria
Accumulative assessment (all components of the cumulative score must be passed above score 5) Obligatory attendance of seminars and practice			
Test	60%	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	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). <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

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				
Misch CE.	2009	Contemporary implant dentistry	1-32, 43-53, 142-206, 414-511, 587-596 p.	St.Louis, Mosby
S. Rosenstiel , M.F. Land, J. Fujimoto et al.	2015	Contemporary Fixed Prosthodontics, 5th edition	379-430; 928-963 p.	St. Louis, Mosby
Recommended reading				
Lindhe J., Karring T, Lang NP.	2003	Clinical periodontology and implant dentistry. 4th edition	945-1003 p.	Copenhagen, Blackwell Publishing

Buser D, Belser D, Wismeijer D.	2007	ITI treatment guide. Volume 1-implant therapy in the esthetic zone. Single tooth replacements	78-132 p.	Quitessence Pub.
Articles related to subject available through subscribed databases of Library of Vilnius University: http://www.mb.vu.lt/istekliai/ https://www.clinicalkey.com				