

COURSE UNIT DESCRIPTION

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

| Lecturer(s) | Department(s) |
|--|---|
| Coordinating: Assoc. Prof. Vygandas Rutkūnas Others: Assist. Prof. Rolandas PLETKUS Assist. Prof. Vytenis ALMONAITIS Prof. Tomas LINKEVIČIUS Assist. Prof. Rita TRUMPAITĖ - VANAGIENĖ Assist. Prof. Egle VINDAŠIŪTĖ - NARBUTĖ Assist. Prof. A. GEDRIMIENĖ Lect. P. Andrijauskas Lect. J. Pletkus | 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 | |
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| 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 | 134 | 80 | 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 respectfully and constructively, according to ethical and law standards; manage | Lectures, seminars in small | Tasks during the involving lectures; |

| | | |
|--|---|--|
| all medical documentation and follow hygiene standards. | groups, analysis of clinical cases, self-study, consultations, clinical practice | 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 | Lecture | Tasks during the involving lectures; |
| Will be knowledgeable about indications and contraindications of maxillofacial prosthetics, the types and parts of prostheses. | | |
| Will be knowledgeable about indications and contraindications of prosthodontics in children, types and construction parts of prostheses. | 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 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. | | |
| 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 | | | | | | Total contact hours | Self-study | Tasks |
|--|--------------------|---------------|----------|----------|-----------------|--------------------|---------------------|------------|--|
| | Lectures | Consultations | Seminars | Practice | Laboratory work | Practical training | | | |
| 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 | | | 10 | | | 12 | | |
| | 14 | 1 | 4 | 61 | | | 80 | 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 | 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). <p>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.</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 | | | | |