

SELECTIVE DISCIPLINE

for 4st year students of the Faculty of Dentistry

2020-2021 academic year

Name of the course	MODERN TECHNOLOGIES OF DENTAL PROSTHESIS
Department	Orthopedic dentistry
Teachers	Prof. Belikov A. B. As. Roschuk A. I.
Brief description of the content of the discipline	<p>The aim of the course: in-depth study of modern technology-cast fixed prosthesis, materials and technologies used in dental prosthetics.</p> <p>Objectives: knowledge about the anatomical and physiological peculiarities of organs and tissues dentoalveolar, functional anatomy and biomechanics of dentoalveolar apparatus. Increased knowledge of modern views on the etiology and pathogenesis of defects of hard tissues and partial defects of dentition. The analysis of patterns of clinical course of partial loss of teeth, improving skills of diagnosis and differential diagnosis of the various defects of hard tissues of teeth and partial defects of dentition. Knowledge about modern methods of orthopedic treatment of defects of hard tissues of teeth and partial defects of dentition. Develop analytical approach to the individual choice of the method of orthopedic treatment of defects of hard tissues of teeth and partial defects of dentition. Improving the skills of orthopedic treatment of defects of hard tissues of teeth and partial defects of dentition through the use of modern technologies of dental prosthesis. A better knowledge of errors and complications in orthopedic treatment of defects of hard tissues of teeth and partial dentition defects, improving skills for their prevention and elimination.</p> <p>Discipline Study Results: The student must <i>know</i>:</p> <ol style="list-style-type: none"> 1. Organization of the dental laboratory. Infection control. Evaluation and monitoring of work. Registration of the order (order) for work. Parallelometry. Modern designs of parallelometers. Wax modeling of fixed and removable orthopedic structures. Characterization of modeling materials. The process of milling wax reproductions and metal frames. 2. Wax modeling. Casting of cast bridges. Frame design and selection of metal alloys for cermet restorations. The design of the intermediate part of the denture. Casting technology for solid castings. 3. Aesthetic characteristics and the process of reproducing color restoration. Ceramic metal restorations. Fixing materials and cementing techniques for fixed structures. 4. Milling in the manufacture of removable and fixed orthopedic structures. CAD-CAM technology. Electroplating in the manufacture of orthopedic structures. Technology and indications for use.

	<p>6. Technology for processing orthopedic structures. Characterization of materials and means.</p>
<p>Providing general and professional competencies</p>	<p>GC 1 Ability to abstract thinking, analysis and synthesis. GC 2 Knowledge and understanding of the subject area and understanding of professional activities. GC 3 Ability to apply knowledge in practice. GC 4 Ability to communicate in the state language both orally and in writing PC 1 The ability to collect medical information about a patient and analyze clinical data. PC 2 The ability to interpret the result of laboratory and instrumental studies. PC 4 The ability to plan and carry out activities for the prevention of diseases of organs and tissues of the oral cavity and maxillofacial region. PC 5 The ability to design the process of providing medical care: to determine the approaches, plan, types and principles of treatment of diseases of organs and tissues of the oral cavity and maxillofacial area. PC 6 The ability to determine the rational mode of work, rest, diet in patients with the treatment of diseases of organs and tissues of the oral cavity and maxillofacial region. PC 8 The ability to perform medical and dental procedures. PC 9 The ability to treat major diseases of organs and tissues of the oral cavity and maxillofacial region. PC 12 The ability to organize and conduct screening examinations in dentistry. PC 16 The ability to organize and conduct rehabilitation measures and care in patients with diseases of the oral cavity and maxillofacial region.</p>