

SELECTIVE DISCIPLINE

for 2st year students of the Faculty of Dentistry

2020-2021 academic year

Name of the discipline	MATERIALS IN PROSTHETIC DENTISTRY
The department	Orthopedic dentistry
Teachers	Prof. Belikov A.B. Ass. Gavaleshko V.P.
A brief description of the content of the discipline	<p>The purpose of the discipline: an in-depth study of the mechanical, technological, physical, chemical and biological properties of materials for the manufacture of orthopedic structures, their structure, properties and the relationship between them, explores the dependence of the structure and properties on the methods of production and processing of materials, as well as their change under the influence of external factors: power, heat, radiation, etc.</p> <p>Objective: mastering the skills to select a material that meets all the requirements, does not have a negative effect on the tissues of the prosthetic area and the patient's body as a whole, could replace missing teeth, making this replacement invisible and convenient for the patient. Justification for the selection of certain materials depending on the type of prosthetics, the importance of certain materials for the manufacture of orthopedic structures. Analysis of the requirements for basic and auxiliary materials used in orthopedic dentistry, the composition, properties and application of certain groups of dental materials, the methodology of using auxiliary materials in the manufacture of dentures. The study of the positive and negative properties of auxiliary materials for the manufacture of dentures.</p> <p>Discipline Study Results:</p> <p>The student must <i>know</i>:</p> <ol style="list-style-type: none"> 1. The basics of dental materials science. The choice of the "ideal" material for prosthetics. 2. Classification of dental materials by chemical nature and purpose. The main properties and their significance for reconstructive dentistry. 3. Characterization of alloys and ceramic masses for the manufacture of ceramic-metal constructions of dentures. 4. The concept of "polymeric materials." Classification of dental polymer materials. <p>The student must be <i>able to</i>:</p> <ol style="list-style-type: none"> 1. To carry out the selection of material for orthopedic structures in accordance with the clinical situation.
Providing of general and professional competencies	<p>GC 1 Ability to abstract thinking, analysis and synthesis.</p> <p>GC 2 Knowledge and understanding of the subject area and understanding of professional activities.</p> <p>GC 3 Ability to apply knowledge in practice.</p> <p>GC 4 Ability to communicate in the state language both orally and in writing.</p> <p>GC 5 Ability to communicate in English.</p> <p>GC 6 Skills for using information and communication</p>

	<p>technology.</p> <p>GC 13 Ability to act socially responsible and consciously.</p> <p>PC 1 Ability to collect patient medical information and analyze clinical data.</p> <p>PC 2 Ability to interpret the result of laboratory and instrumental research.</p> <p>PC 4 Ability to plan and conduct events for prevention of diseases of organs and tissues of the oral cavity and maxillofacial area.</p> <p>PC 9 The ability to treat major diseases of organs and tissues of the oral cavity and maxillofacial region.</p> <p>PC 11 Ability to determine tactics, methods and emergency medical care.</p> <p>PC 14 The ability to maintain regulatory medical documentation.</p>
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