	<b>Educational institution</b> <b>Roel Metropolitan University</b>
	<b>Abstract of the course</b> <b>Department of Dental Disciplines</b>

### Abstract of the course "Propaedeutics of Orthopedic Dentistry"

<b>Name of the discipline</b>	<b>Propaedeutics of orthopedic dentistry</b>
<b>The complexity of the discipline</b>	3 credits (90 hours)
<b>Course, semester</b>	2nd year, 3rd semester
<b>The place of the discipline in the curriculum (prerequisites, postrequisites)</b>	<p>The discipline "Propaedeutics of Orthopedic Dentistry" is a fundamental basis for mastering the clinical sections of dentistry.</p> <p><b>Prerequisites:</b> human anatomy, physics (biomechanics), chemistry, dental materials science.</p> <p><b>Postrequisites:</b> Orthopedic dentistry (clinic), maxillofacial prosthetics, implantology.</p>
<b>Goals and objectives of the discipline</b>	<p><b>The goal</b> of mastering the discipline is to teach students the theoretical foundations and manual skills for performing clinical and laboratory stages of manufacturing dental prostheses on phantoms and models.</p> <p><b>Objectives of the course:</b></p> <ol style="list-style-type: none"> <li>1. Study of the anatomical and physiological features of the structure of the dental system from the perspective of orthopedics.</li> <li>2. Acquisition of skills in organizing an orthopedic office and a dental laboratory.</li> <li>3. Study of classifications of defects of dental crowns and dental arches.</li> <li>4. Training in the technique of preparing teeth for various types of crowns on phantoms.</li> <li>5. Development of techniques for obtaining anatomical impressions using various materials.</li> <li>6. Study of laboratory stages of prosthetic manufacturing (model casting, wax modeling, plaster casting in an articulator).</li> <li>7. Introduction to the biomechanics of the masticatory apparatus and occlusal contacts.</li> </ol>
<b>Competencies:</b>	The discipline contributes to the development of the following competencies;



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**OK-1:**ability to abstract thinking, analysis, synthesis;

**IK-1** - able and ready to work with computer equipment and software for system and application purposes to solve professional problems;

**SLK-1-** able and ready to implement ethical, deontological and bioethical principles in professional activities;

**PC-2-** is able and ready to conduct and interpret a survey, physical examination, clinical examination, results of modern laboratory and instrumental studies, morphological analysis of biopsy, surgical and autopsy material of patients, prepare a medical record of outpatient and inpatient patients of children and adults;


**PC-4-** is able and ready to apply aseptic and antiseptic methods, use medical instruments, carry out sanitization of treatment and diagnostic rooms, children's healthcare organizations, and be proficient in the techniques of caring for sick children and adults;

**PC-6-** is able and ready to work with medical and technical equipment used in work with patients, computer equipment, receive information from various sources, apply the capabilities of modern information technologies to solve professional problems;


**PC-15** - able and willing to collect and record a complete patient medical history, including oral health data;

**PC-16** - is capable and ready to make a diagnosis based on the results of clinical laboratory studies of biological materials and taking into account the laws of the course of pathology in organs, systems and the body as a whole;

**PC-19-** is able and ready to diagnose typical dental diseases of the hard and soft tissues of the oral

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	<p>cavity, dentofacial anomalies in patients of all ages;</p> <p><b>PC-20</b> - able and ready to analyze and interpret the results of modern diagnostic technologies in children, adolescents and adults for successful treatment and preventive activities. - treatment activities;</p> <p><b>DPK-1</b>- the ability to use modern digital technologies in the diagnosis and treatment of dental diseases.</p>
<p><b>Results of mastering the discipline</b></p>	<p>The results of mastering the discipline are formed using the active verbs of Bloom's Taxonomy: After mastering this discipline, the student:</p> <p><b>Will know:</b></p> <ul style="list-style-type: none"> <li>• normal morphology of teeth and shape of dental arches;</li> <li>• classification of impression materials and types of plaster models;</li> <li>• stages of manufacturing fixed (crowns, inlays) and removable dentures.</li> </ul> <p><b>Will understand:</b></p> <ul style="list-style-type: none"> <li>• principles of distribution of chewing pressure and functional overload of the periodontium;</li> <li>• the importance of the accuracy of each stage (from preparation to fixation) for the success of treatment.</li> </ul> <p><b>Will be able to use:</b></p> <ul style="list-style-type: none"> <li>• orthopedic instruments (impression trays, preparation burs, spatulas);</li> <li>• devices that reproduce the movements of the lower jaw (occluders and articulators).</li> </ul> <p><b>Will be able to:</b></p> <ul style="list-style-type: none"> <li>• conduct an examination of the oral cavity on a phantom and assess the condition of the antagonist teeth;</li> <li>• perform preparation of teeth for stamped, cast and metal-ceramic crowns;</li> <li>• take anatomical impressions from a phantom using alginate and silicone masses;</li> </ul>

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	<ul style="list-style-type: none"> <li>• cast plaster models and fix them in an occluder;</li> <li>• model the anatomical shape of crowns and prosthetic elements from wax;</li> <li>• issue a work order to the dental laboratory.</li> </ul>
<b>Basic literature</b>	<ol style="list-style-type: none"> <li>1. <b>Herbert T. Shillingburg.</b>Fundamentals of Fixed Prosthodontics. Quintessence Publishing.</li> <li>2. <b>Alan B. Carr.</b>McCracken's Removable Partial Prosthodontics. Elsevier.</li> <li>3. <b>Bazikyan E. A.</b>Propaedeutic dentistry. Textbook. (Orthopedics section).</li> <li>4. <b>Lebedenko I. Yu.</b>Propaedeutic dentistry. Textbook.</li> <li>5. <b>Abolmasov N. G.</b>Orthopedic dentistry. (Initial chapters).</li> <li>6. <b>Oral Medicine.</b>Exam Preparatory Manual for Undergraduates</li> </ol>