

	Educational institution Roel Metropolitan University
	Abstract of the course Department of Dental Disciplines

Course Summary: "Orthopedic Dentistry"


Name of the discipline	Orthopedic dentistry
The complexity of the discipline	24 credits 720 hours
Course, semester	3 course to 5, 6 semesters, 4 course to 7, 8 semesters, 5 course to 9, 10 semester
The place of the discipline in the curriculum (prerequisites, postrequisites)	<p>The course "Orthopedic Dentistry" is part of the Faculty of Dentistry's curriculum and is a required course.</p> <p>Prerequisites: Latin, medical biology, human anatomy, physics and mathematics, human physiology, microbiology, and biological chemistry.</p> <p>Postrequisites: therapy, general surgery, oncology, resuscitation, therapy, radiology.</p>
Goals and objectives of the discipline	<p>The purpose of mastering this discipline is to provide the student with knowledge and skills in the field of orthopedic dentistry, taking into account further education and preparation for professional activity in the specialty 560004 "Dentistry".</p> <p>Course objectives:</p> <ol style="list-style-type: none"> 1) teaching students the basic anatomical and physiological features of the maxillofacial region that influence the occurrence, development, course, diagnosis, prevention and treatment of orthopedic diseases of the oral cavity; 2) mastering the basic practical skills necessary for examining orthopedic patients; 3) teaching students the basics of etiology, pathogenesis, clinical manifestations, diagnosis and differential diagnosis of dental defects, their complications and terminal conditions; 4) study of emergency conditions in dentistry and training in providing assistance; 5) identifying links between orthopedic diseases of the oral cavity and environmental factors and bad habits; 6) recognition of hidden, long-term foci of chronic oral infection for the prevention of common diseases;

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	<p>7) teaching students the classification of the main orthopedic diseases of the oral cavity;</p> <p>8) teaching students the relationship between pathological processes occurring in the maxillofacial region and in other organs and systems</p>
Competencies:	<p>This discipline promotes the development of the following competencies:</p> <p>OK-1– is able and ready to analyze socially significant problems and processes, to use methods of natural sciences, mathematics and humanities in various types of professional and social activities;</p> <p>IK-1 - able and willing to work with computer equipment and software providing systemic and applied purposes for solving professional problems;</p> <p>SLK-1- able and ready to implement ethical, deontological and bioethical principles in professional activities;</p> <p>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;</p> <p>PC-3- is able and willing to conduct a pathophysiological analysis of clinical syndromes, use sound methods of diagnosis, treatment, rehabilitation and prevention among children, taking into account their age, and the adult population;</p> <p>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;</p> <p>PC-15 - able and willing to collect and record a complete patient medical history, including oral health data;</p>

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	<p>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;</p> <p>PC-19- is able and ready to diagnose typical dental diseases of the hard and soft tissues of the oral cavity, dentofacial anomalies in patients of all ages;</p> <p>PC-20 - able and willing 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>PC-22 - able and ready to perform basic treatment procedures for the most common dental diseases and conditions in adults and children;</p> <p>PC-23 - is able and ready to prescribe adequate treatment to patients with dental diseases in accordance with the diagnosis, and implement an algorithm for selecting drug and non-drug therapy;</p> <p>DPK-1- the ability to use modern digital technologies in the diagnosis and treatment of dental diseases.</p> <p>DPK-2- willingness to use innovative aesthetic materials and restoration methods to restore the dentition.</p>
<p>Results of mastering the discipline</p>	<p>After mastering this discipline, the student:</p> <p>Will know:</p> <ul style="list-style-type: none"> • structure and equipment of orthopedic dental departments • medical organizations; sanitary and hygienic requirements for the organization of orthopedic dental treatment and preventive institutions; <p>Will understand:</p> <p>Will understand:</p> <ul style="list-style-type: none"> • job responsibilities and rights of a doctor when providing dental and emergency medical care; • professional ethics and deontological aspects of treatment and preventive work of a dentist.

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	<p>Will be able to use:</p> <p>Principles and methods of outpatient treatment of orthopedic dental diseases;</p> <ul style="list-style-type: none"> • Classification of adentin of teeth; • Etiological factors leading to the development of adentin in teeth; • Methods of examination, diagnosis and prevention of tooth adentin; • Methods of prosthetics for patients with edentulous teeth; • Causes of complications in orthopedic practice when treating patients with pulp and periodontal diseases, as well as methods of their prevention; <p>Will be able to:</p> <p>Conduct an orthopedic dental examination of the patient and collect anamnesis;</p> <ul style="list-style-type: none"> • Write down the dental formula of permanent and temporary teeth in accordance with the international notation system; • Determine the condition of hard dental tissues; • To determine the prevalence and intensity of dental diseases in the group of examined individuals; • Teach methods of taking impressions; • Teach further stages of prosthetics; • Conduct an individual selection of oral hygiene products for the patient depending on the age and condition of the oral cavity;
Basic literature	<p>1. Clinical Problem Solving in Prosthodontics, 1st Edition by David Bartlett. Functional Occlusion, 1st Edition: From TMJ to Smile Design by Peter Dawson.</p>

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	<p>2. Dentistry, 1st edition. Exam preparation guide for students.</p> <p>3. Abolmasov N.G. Orthopedic dentistry: textbook.</p> <p>4. Gavrilov E.I., Trezubov V.N., Zhulev E.N. Orthopedic dentistry: textbook.</p> <p>5. Konovalov A.P., Trezubov V.N. Phantom course of orthopedic dentistry: a tutorial.</p> <p>6. Mishnev L.M., Neznanova N.Yu., Fishchev S.B., Trezubov V.N. Orthopedic dentistry. Technology of therapeutic and prophylactic devices: Textbook for medical universities</p> <p>7. Periodontology: A Preparatory Manual for Students, 1st Edition. Authors: Vivek Bains, Vivek Gupta, Jyoti Bansal.</p>
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