

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

Abstract of the course "Therapeutic Dentistry"

Name of the discipline	Therapeutic dentistry
The complexity of the discipline	24 credits (720 hours)
Course, semester	3rd year 5, 6 semester, 4th year 7, 8 semester, 5th year 9, 10 semester.
The place of the discipline in the curriculum (prerequisites, postrequisites)	<p>The course "Therapeutic Dentistry" is part of the dental curriculum and is a compulsory course. Prerequisites: Latin, medical biology, human anatomy, physics and mathematics, normal physiology, microbiology, and biological chemistry.</p> <p>Postrequisites: therapy, general surgery, pharmacology, radiology.</p>
Goals and objectives of the discipline	<p>The goal of mastering the discipline is to provide the student with knowledge and skills in therapeutic dentistry, taking into account further education and preparation for professional activity in the specialty.</p> <p>Objectives of the course:</p> <ol style="list-style-type: none"> 1) teaching students the basic anatomical and physiological features of the maxillofacial region, which influence the occurrence, development, course, diagnosis, prevention and treatment of dental diseases; 2) mastering the basic practical skills necessary for examining therapeutic dental patients; 3) teaching students the basics of etiology, pathogenesis, clinical manifestations, diagnosis and differential diagnosis of major dental diseases, their complications and terminal conditions; 4) study of emergency conditions in dentistry and training in providing assistance; 5) identification of connections between therapeutic dental diseases and environmental factors and bad habits; 6) recognition of hidden, long-term foci of chronic oral infection for the prevention of common diseases; 7) teaching students the classification of the main dental diseases, teaching them to write dental formulas according to international classifications;

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	<p>8) teaching students the relationships between pathological processes occurring in the maxillofacial region and in other organs and systems.</p>
<p>Competencies:</p>	<p>The discipline contributes to the development of the following competencies;</p> <ol style="list-style-type: none"> 1. OK-1 – 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; 2. IK-1 - capable and ready to work with computer hardware and software for system and application purposes to solve professional problems; 3. SLK-1 - is able and ready to implement ethical, deontological and bioethical principles in professional activities; 4. 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; 5. PC-3 - is able and ready 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; 6. 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 possess the techniques for caring for sick children and adults; 7. PC-6 - is capable and ready to work with medical and technical equipment used in work with patients, computer equipment, receive information from various sources,

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	<p>apply the capabilities of modern information technologies to solve professional problems;</p> <p>8. PC-15 - capable and prepared to collect and record a complete patient medical history, including oral health data;</p> <p>9. PC-16 - capable and prepared to make a diagnosis based on the results of clinical and laboratory studies of biological materials and taking into account the patterns of pathological progression across organs, systems, and the body as a whole;</p> <p>10. PC-19 - capable and prepared to diagnose typical dental diseases of the hard and soft tissues of the oral cavity, as well as dentofacial anomalies in patients of all ages;</p> <p>11. PC-20 - capable and prepared to analyze and interpret the results of modern diagnostic technologies in children, adolescents, and adults for successful treatment and preventive care.</p> <p>12. PC-21 - capable and prepared to analyze the effects of medications based on their pharmacological properties in the treatment of dental diseases;</p> <p>13. PC-22 - capable and prepared to perform basic treatment measures for the most common dental diseases and conditions in adults and children;</p> <p>14. PC-23 - is able and ready to prescribe adequate treatment to patients with dental diseases in accordance with the established diagnosis, and to implement an algorithm for selecting drug and non-drug therapy;</p>
<p>Results of mastering the discipline</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><i>Will know:</i></p> <ul style="list-style-type: none"> • structure and equipment of therapeutic dental departments medical organizations; sanitary and hygienic



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- requirements for the organization of therapeutic dental treatment and preventive institutions;

Will understand:


- job responsibilities and rights of a physician in providing dental and emergency medical care;
- professional ethics and deontological aspects of the treatment and preventive work of a dentist

Will be able to use:

- principles and methods of outpatient treatment of therapeutic dental diseases;
- classification, etiology, pathogenesis of diseases of the pulp and periodontium;
- etiological factors leading to development diseases of the pulp and periodontium;
- methods of examination, diagnosis, prevention and therapeutic treatment of patients with diseases of the pulp and periodontium;
- methods of endodontic treatment of patients with pulp and periodontal diseases;
- causes of complications in therapeutic practice when treating patients with pulp and periodontal diseases, and methods of their prevention;

Will be able to:

- conduct a therapeutic dental examination of the patient and take a medical history;
- 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 subjects examined;
- determine the hygienic condition of the oral cavity using indices;
- carry out individual selection of oral hygiene products for the patient depending on the age and condition of the oral cavity;
- perform various teeth cleaning methods on phantoms;

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	<ul style="list-style-type: none"> • teach children and adults teeth cleaning techniques; • carry out supervised teeth cleaning; • to carry out diagnostics and differential diagnostics of initial forms of caries and non-carious lesions; • Conduct treatment of caries, pulp, rt on models.
<p>Basic literature</p>	<p>1.Clinical Problem Solving in Prosthodontics1st Edition Author: David Bartlett Functional Occlusion 1st Edition From TMJ to SmileDesignAuthor: Peter Dawson</p> <p>2.Oral Medicine 1st Edition Exam Preparatory Manual for Undergraduates</p> <p>3.B.A. Kozhokeeva, K.B. Kuttubaeva, CM</p> <p>4.Ergeshov Pulpitis: Clinical Features, Diagnosis, Treatment: Study Guide</p> <p>5.Periodontics: Prep Manual for Undergraduates 1st EditionAuthors: Vivek Bains Vivek Gupta Jyoti Bansal</p>