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**Federal State Autonomous Educational Institution of Higher Education
PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA
RUDN University**

Institute of Medicine

educational division (faculty/institute/academy) as higher education programme developer

COURSE SYLLABUS

Dentistry

course title

Recommended by the Didactic Council for the Education Field of:

31.05.01 General Medicine

field of studies / speciality code and title

The course instruction is implemented within the professional education programme of higher education:

General Medicine

higher education programme profile/specialisation title

2022-2023

1. COURSE GOAL(s)

The goal of the course “Dentistry” is to equip students with the knowledge of theory and practice of application of methods prevention hard dental tissue diseases of the oral mucosa and periodontal tissues among the various population groups, including in patients with various somatic diseases (cardiovascular system, blood disorders, diabetes, oncology patients).

2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course (module) “Dentistry” is aimed at the development of the following competences /competences in part: PC-2, PC-5.

Table 2.1. List of competences that students acquire through the course study

Competence code	Competence descriptor	Competence formation indicators (within this course)
PC-2	Being able to examine a patient in order to determine a diagnosis	PC-2.2. Being able to make a preliminary diagnosis and make up a plan of laboratory and instrumental examinations of a patient.
		PC-2.5. Being able to refer a patient to consult with a medical specialist if there is a medical indication in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care taking into account the standards of medical care.

3. COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The course refers to the core/variable/elective* component of (B1) block of the higher educational programme curriculum.

* - Underline whatever applicable.

Within the higher education programme students also master other (modules) and / or internships that contribute to the achievement of the expected learning outcomes as results of the course study.

Table 3.1. The list of the higher education programme components/disciplines that contribute to the achievement of the expected learning outcomes as the course study results

Competence code	Competence descriptor	Previous courses/modules*	Subsequent courses/modules*
PC-2	Being able to examine a patient in order to determine a diagnosis	Topographic anatomy and operative surgery Pathological anatomy, clinical pathological anatomy Otorhinolaryngology	Faculty therapy Faculty surgery

Competence code	Competence descriptor	Previous courses/modules*	Subsequent courses/modules*
		Propedeutics of Internal Medicine	

4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course “Dentistry” is 2 credits (72 academic hours).

Table 4.1. Types of academic activities during the periods of higher education programme mastering (**full-time training**)*

Type of academic activities	Total academic hours	Semesters/training modules
		9
Contact academic hours	288	72
including:	-	-
Lectures (LC)	-	-
Lab work (LW)	36	36
Seminars (workshops/tutorials) (S)	-	-
Self-studies	30	30
Evaluation and assessment (exam/passing/failing grade)	6	6
Course workload	academic hours	72
	credits	2

5. COURSE CONTENTS

Table 5.1. Course contents and academic activities types

Course module title	Course module contents (topics)	Academic activities types
Module 1 Introduction to dentistry course.	Aims and objectives of discipline. The role and place of a dentist in clinical medicine. Manifestation in the oral cavity some common diseases (demonstration analysis and rare cases of clinical experience chair requiring general clinical training dentists). Algorithm Diagnostics and medzhdistsiplinarnogo interaction. Principles, especially the treatment. (Symptomatic and pathogenetic	LW

	<p>therapy) A brief historical sketch of the development of dentistry. The main activities of the department.</p> <p>Clinical examination of the patient. Basic and advanced inspection methods.</p> <p>Mastering the skills of using dental instruments for inspection of the mouth.</p> <p>Methods for assessing the level index oral hygiene, the intensity of caries and periodontal tissues. Visual inspection. Dentition. Condition of the oral mucosa.</p> <p>Functional diagnostic methods. The index score oral hygiene level patients with different somatic pathology</p> <p>Introduction to the mode structure and dental offices tools. Organization and equipment dental office. Types of dental units.</p>	
<p>Module 2</p> <p>Clinical aspects of calcium metabolism in an organism. The role of calcium in the prevention of dental diseases.</p>	<p>Assessment of the level of dental care.</p> <p>Planning prevention programs stages.</p> <p>A study of the prevalence and intensity of the main dental diseases: dental caries and periodontal diseases affecting the majority of the population, including patients with various somatic diseases.</p> <p>occupational health activities. Tools for removal of dental plaque. Hand, ultrasound and chemical methods of removal of dental plaque. Tools and means for polishing the surface of teeth. Means for processing the surface of the teeth and gums after occupational health</p> <p>The levels of implementation of prevention in public health practice.</p> <p>The purpose and objectives of WHO for the prevention of dental diseases. Experience of foreign countries and Russia in preventive and community dentistry. Keeping medical records.</p> <p>Prevention of HIV infection.</p> <p>oral hygiene products. Toothbrushes and requirements for them. Classification, composition, properties of toothpastes. Abrasive toothpastes.</p>	LW
<p>Module 3</p> <p>Objective methods of assessing the level of oral hygiene. The practical task.</p>	<p>Determination hygienic state of mouth indexes Fedorova - Volodkina, Green - Vermillion Kuzminoj etc.</p> <p>Calculation health indexes..effectiveness of oral hygiene index. detection technology. Evaluation and interpretation</p> <p>Methods for cleaning teeth. Controlled tooth brushing</p>	LW

	<p>technique and its implementation.</p> <p>Features of learning brushing teeth children of different ages and adults.</p> <p>Purpose and methods of using mouthwash, elixirs, dental floss, interdental brushes, toothpicks, irrigators, brushes for tongue, gums.</p> <p>occupational health activities. Tools for removal of dental plaque. Hand, ultrasound and chemical methods of removal of dental plaque. Tools and means for polishing the surface of teeth. Means for processing the surface of the teeth and gums after occupational health.</p>	
<p>Module 4 The main dental diseases. Clinic.Diagnosis. Treatment. Prevention</p>	<p>Study of the prevalence and intensity of major dental diseases: dental caries without caries dental hard tissue, periodontal disease, oral mucosa diseases affecting the majority of the population, including patients with various somatic pathology.</p> <p>Oral mucosa diseases of the blood, gastrointestinal tract, central nervous system, cardiovascular system, kidneys, endocrine diseases, acute and chronic infectious diseases, allergic diseases.</p> <p>Klinika.Diagnostika. Treatment. prevention Manifestations in the mouth of diabetes, hypertension, blood diseases and HIV infection. Features a survey of cardiac patients. Clinical experience with the department. Long-term results of clinical observations.</p>	<p>LW</p>
<p>Module 5 The role of the dentist in solving interdisciplinary problems.</p>	<p>Parsing complex clinical cases using tools and methods for telemedicine.</p> <p>Demonstration of the department of clinical material (including a live broadcast of the clinical situations RNTSRR).</p> <p>Methods of dental examination and modern programs of dental treatment of patients with somatic pathology. And 3-D CAD / CAM technology</p> <p>The volume of the preparation and design of the mouth during dental treatment of caries, erosion of enamel and dentin, wedge-shaped defects of different localization.</p> <p>Modern possibilities of dental implantation.</p> <p>Restoring lost tooth structure. Indications ceramic crowns and inlays. Clinical modeling application of composite materials for eliminating the defects of hard tissues of teeth of different origin. Clinical modeling restoring teeth with crowns, veneers and tabs.</p> <p>Demonstration of dental photographs on clinical examples from the professional experience of general practice dentist.</p>	<p>LW</p>

<p>Module 6 Overview of modern means and methods of beam diagnostics of the head and neck.</p>	<p>Precancerous diseases of the oral mucosa. Oncology doctor alertness, its species. Isolated and combined treatment of benign and malignant tumors Chloe. Side effects of treatment. Complications in patients with cancer of the mouth and the maxillofacial region. Modern technologies of external beam radiotherapy. Types of radiation therapy. Brachytherapy, remote and interstitial therapy. Radionuclide therapy, mechanisms of influence on the tumor.</p>	<p>LW</p>
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* - to be filled in only for **full**-time training: *LC* - lectures; *LW* - lab work; *S* - seminars.

6. CLASSROOM EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

Table 6.1. Classroom equipment and technology support requirements

<p>Type of academic activities</p>	<p>Classroom equipment</p>	<p>Specialised educational / laboratory equipment, software, and materials for course study (if necessary)</p>
<p>Lab work</p>	<p>Classroom for laboratory work, individual consultations, routine monitoring and interim certification, equipped with a set of specialized furniture and equipment.</p>	<p>Installing the dental chair with Hiradent 654-3 - 1 pc. ED 240 ovens with RS422 (Binder) (9010-0101) (LLC Diaem) - 1pc. RC-2ZT Phantom Frasco GmbH head trainer Germany (10130120/190315/0001935) - 1 pc. Dental tools (set) - 10 pcs. Workplace student / teacher as part of the system unit, monitor, keyboard - 1 pcs. Intraoral Camera (10125230/221108/0006472 Korea.) - 1 pc. Ultrasonic scaler DTE-7DLED - 4 pcs.</p>
<p>Seminar</p>	<p>Classroom for laboratory work, individual consultations, routine monitoring and interim certification, equipped with a set of specialized furniture and equipment.</p>	<p>Classroom, Equipped with a set of specialized furniture, wheteboard;a set of devices includes portable multimedia projector, laptop,projection</p>

Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)
		<p>screen,stable wireless Internet connection.</p> <p>Software: Microsoft Windows,MS Office\Office 365,MS TEAMS,Chrome Monitor LED LG 55" 55UF771V Ultra HD, 100Hz, DVB-T2, DVB-C, DVB-S2, USB, WiFi</p>
Computer Lab	Classroom for laboratory work, individual consultations, routine monitoring and interim certification, equipped with a set of specialized furniture and equipment.	<p>Classroom, Equipped with a set of specialized furniture, wheteboard;a set of devices includes portable multimedia projector, laptop,projection screen,stable wireless Internet connection.</p> <p>Software: Microsoft Windows,MS Office\Office 365,MS TEAMS,Chrome Monitor LED LG 55" 55UF771V Ultra HD, 100Hz, DVB-T2, DVB-C, DVB-S2, USB, WiFi</p> <p>The workplace of the student / teacher as part of the system unit, monitor, keyboard - 8 pcs., there is an Internet connection.</p> <p>Software: Windows 8.1 Corporate (Microsoft Office Professional Plus 2007, Corporate Licensing Program (Microsoft Subscription) Enrollment for Education Solutions № 86626883or 01.04.2018 г.)</p> <p>Sirona Wibv-systems 1001-02-160-0445</p> <p>№№</p> <p>1)2-3067086, 2016 2)2-2707139 , 2016 3)2-2707136 , 2016 4)2-2707154 , 2016 5)2-2536154 , 2016</p>

Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)
		6)2-2707122 , 2016 7)2-2695658 , 2016 8)2-2707144 , 2016

7. RECOMMENDED SOURSES for COURSE STUDIES

Main readings:

1. Tutorial Guide of Operative Dentistry / F.Yu. Daurova, M.K. Makeeva, Z.S. Khabadze. - Electronic text data. - M. : Publishing House of RUDN University, 2016. - 151 p.
http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=452391&idb=0

Additional readings:

1. Anaesthesia and Sedation in Dentistry [Text]: Monograph / Ed. by M.P.Coplans and R.A.Green. - The book is in English. -Amsterdam; New York: Elsevier, 1983. - 421 p. : il. - (Monographs in anaesthesiology; V. 12). - 38.91
2. Application of the International classification of diseases to dentistry and stomatology. ICD-DA [Text] . - The book is in English. - Geneva : World health organization, 1973. - 114p. : il. - 0.00.
3. American Pocket medical dictionary [Text] : A dictionary of the Princpal Terms Used in Medicine, Nursing, Pharmacy, Dentistry, Veterinary Science, and Allied Biological Subjects. - 19th ed. ; Book in English. - Philadelphia-London : W. B. Saunders, 1953. - 639 p. : il. - 2.50.c) Internet sourcers:

Electronic libraries with access for RUDN students:

<http://lib.rudn.ru/MegaPro/Web>
<http://www.biblioclub.ru>
<http://www.biblio-online.ru>
www.studentlibrary.ru
<http://e.lanbook.com/>

Databases and search engines:

<http://docs.cntd.ru/>
<https://www.yandex.ru/>
<https://www.google.ru/>
<http://www.elsevierscience.ru/products/scopus/>

Training toolkit for self- studies to master the course *:

1. The set of lectures on the course “Dentistry”

* The training toolkit for self- studies to master the course is placed on the course page in the university telecommunication training and information system under the set procedure.

8. ASSESSMENT TOOLKIT AND GRADING SYSTEM* FOR EVALUATION OF STUDENTS' COMPETENCES LEVEL UPON COURSE COMPLETION

The assessment toolkit and the grading system* to evaluate the competences formation level (PC-2, PC-5) upon the course study completion are specified in the Appendix to the course syllabus.

* The assessment toolkit and the grading system are formed on the basis of the requirements of the relevant local normative act of RUDN University (regulations / order).

DEVELOPERS:

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position, department

signature

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name and surname

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