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**Federal State Autonomous Educational Institution of Higher Education  
Peoples' Friendship University of Russia  
RUDN University**

**Institute of Medicine**

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

**Clinical Dentistry**

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course title

**Recommended by the Didactic Council for the Education Field of:**

**31.05.01 General Medicine**

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field of studies / speciality code and title

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

**General Medicine**

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higher education programme profile/specialisation title

**2024**

## 1. COURSE GOAL(s)

The goal of the course “Dentistry” is mastering student the 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).

**The objectives** of the discipline are:

- familiarity with the basic methods of examination in the mouth.
- identification of the major dental diseases
- identification and elimination of risk factors for dental diseases;
- the development of the students methods of organization and implementation of preventive measures among the various population groups in the individual and group level, including in patients with various somatic diseases (cardiovascular system, blood disorders, diabetes, oncology patients);
- development of students of dental education methods and implementation of motivating people to maintain oral health;

## 2. REQUIREMENTS FOR LEARNING OUTCOMES

The process of studying the discipline is aimed at the formation of the following competences:

Table 2.1 Competences

Competence code	Competence	Competence indicators
SPC-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

Discipline *Clinical Dentistry* refers to the compulsory part of the curriculum.

Table 3.1 List of Higher Education Program disciplines that contribute to expected learning outcomes

№	Competence code	Previous disciplines	Subsequent disciplines

<b>Specialized Professional competences</b>			
	SPC-2	Topographic anatomy and operative surgery Pathological anatomy, clinical pathological anatomy otorhinolaryngology Propedevtika Internal Medicine	Faculty therapy Faculty surgery

#### 4. Course workload and Academic Activities

Course workload is 2 credit units.

Table 4.1 Types of academic activities during the period of the Higher educational program mastering

<b>Types of academic activities</b>	<b>Academic hours</b>	<b>Semester № 9</b>
Lectures	-	-
Seminars (S)	-	-
Lab work (LW)	<b>36</b>	<b>36</b>
Self studies	<b>30</b>	<b>30</b>
Evaluation and assessment	<b>6</b>	<b>6</b>
Total	<b>72</b>	
hours		
credits	<b>2</b>	

#### 5. Course Modules and Contents

##### 5.1. Contents

<b>№</b>	<b>Modules</b>	<b>Topics</b>	<b>Types of academic activities</b>
1	Module 1. Introduction to dentistry course.	Topic 1. 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 therapy) A brief historical sketch of the	LW

		<p>development of dentistry. The main activities of the department.</p> <p>Topic 2. 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>Vr class. Dental Anatomy.</p>	
2.	<p>Module 2. Clinical aspects of calcium metabolism in an organism. The role of calcium in the prevention of dental diseases.</p>	<p>Topic 1. 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>Topic 2. 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
3.	<p>Module 3. Objective methods of assessing the level of oral hygiene. The practical task.</p>	<p>Topic 1. Determination hygienic state of mouth indexes Fedorova - Volodkina, Green - Vermillion Kuzminoj etc. 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>Topic 2. 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>	
4.	<p>Module 4. The main dental diseases.</p> <p>Clinic.Diagnosis.</p> <p>Treatment.</p> <p>Prevention</p>	<p>Topic 1. 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>Topic 2. 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</p> <p>Manifestations in the mouth of diabetes, hypertension, blood diseases and HIV infection.</p> <p>Features a survey of cardiac patients. Clinical experience with the department. Long-term results of clinical observations.</p>	LW
5.	<p>Module 5. The role of the dentist in solving interdisciplinary problems.</p>	<p>Topic 1. 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.</p> <p>Topic 2. 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</p>	LW

		practice dentist.	
6.	Module 6. Overview of modern means and methods of beam diagnostics of the head and neck.	<p>Topic 1. Precancerous diseases of the oral mucosa. Oncology doctor alertness, its species. Isolated and combined treatment of benign and malignant tumors Chloe.</p> <p>Topic 2. Side effects of treatment. Complications in patients with cancer of the mouth and the maxillofacial region.</p> <p>Modern technologies of external beam radiotherapy. Types of radiation therapy. Brachytherapy, remote and interstitial therapy. Radionuclide therapy, mechanisms of influence on the tumor.</p>	LW

## 6. Classroom Equipment and technology Support Requirements

**Table 6.1**

**Classroom Equipment and technology Support Requirements**

<b>Classroom for Academic Activity Type</b>	<b>Classroom Equipment</b>	<b>Classroom Equipment and technology Support Requirements</b>
236 Academic Aktivity type- Lab work	Classroom for laboratory work, individual consultations, routine monitoring and interim certification, equipped with a set of specialized furniture and equipment.	<p>Installing the dental chair with Hiradent 654-3 -1 pc.</p> <p>ED 240 ovens with RS422 (Binder) (9010-0101) (LLC Diaem) - 1pc.</p> <p>RC-2ZT Phantom Frasco GmbH head trainer Germany (10130120/190315/0001935) - 1 pc.</p> <p>Dental tools (set) - 10 pcs.</p> <p>Workplace student / teacher as part of the system unit, monitor, keyboard - 1 pcs.</p> <p>Intraoral Camera (10125230/221108/0006472 Korea.) - 1 pc.</p> <p>Ultrasonic scaler DTE-7DLED - 4 pcs.</p>
237, 436 Academic Aktivity type- Seminars	Classroom for laboratory work, individual consultations, routine monitoring and interim certification, equipped with a set of specialized furniture and equipment.	Classroom, Equipped with a set of specialized furniture, wheteboard;a set of devices includes portable multimedia projector, laptop,projection

<b>Classroom for Academic Activity Type</b>	<b>Classroom Equipment</b>	<b>Classroom Equipment and technology Support Requirements</b>
		<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>
<p>437 Academic Aktivity type- Computer Lab</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 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 № 86626883от 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 6)2-2707122 , 2016</p>

Classroom for Academic Activity Type	Classroom Equipment	Classroom Equipment and technology Support Requirements
		7)2-2695658 , 2016 8)2-2707144 , 2016

## 7. Recommended Sources for Course Studies

### a) Main reading

1. Prevention and public dental health = Профилактика и коммунальная стоматология : учебное пособие : в 2 частях. Часть 1 / А.М. Аванесов, Е.Н. Гвоздикова, К.А. Аванесов [et al.]. - Москва : РУДН, 2023. - 134 с. : ил. - Книга на английском языке.
2. Therapeutic dentistry = Терапевтическая стоматология : textbook / О.О. Yanushevich, Y.M. Maximovskiy, L.N. Maximovskaya, L.Y. Orekhova. - 3-rd ed. - Moscow : GEOTAR-Media, 2021. - 661 p. : il. - Книга на английском языке.
3. Orthodontics. Modern Methods of Diagnosing Dental Abnormalities, Dentition and Occlusion : tutorial : учебное пособие / L.S. Persin, A.B. Slabkovskaya, N.S. Drobysheva [и др.]. - Электронные текстовые данные. - Москва : ГЭОТАР-Медиа, 2021. - 160 с. - Книга на английском языке.  
URL: [https://lib.rudn.ru/MegaPro/UserEntry?Action=Link\\_FindDoc&id=508865&idb=0](https://lib.rudn.ru/MegaPro/UserEntry?Action=Link_FindDoc&id=508865&idb=0)

### b) Additional reading:

1. Introduction to prosthetic dentistry : textbook / A.V. Sevbitov, M.Y. Kuznetsova, V.V. Borisov [и др.] ; ed. by A.V. Sevbitov. - Книга на английском языке. - Moscow : Medical Informational Agency, 2020. - 54 p. : il.
2. Introduction to endodontics : textbook / A.V. Sevbitov, M.Y. Kuznetsova, A.E. Dorofeev [et al.] ; ed. by A.V. Sevbitov. - Книга на английском языке. - Moscow : Medical Informational Agency, 2021. - 100 p. : il.
3. Anaesthesia and Sedation in Dentistry [Текст] : Монография / Ed. by M.P. Coplans and R.A. Green. - Книга на английском языке. - Amsterdam ; New York : Elsevier, 1983. - 421 p. : il. - (Monographs in anaesthesiology ; V. 12). - 38.91
4. Application of the International classification of diseases to dentistry and stomatology. ICD-DA [Текст] . - Книга на английском языке. - Geneva : World health organization, 1973. - 114p. : il. - 0.00.
5. American Pocket medical dictionary [Текст] : A dictionary of the Principal Terms Used in Medicine, Nursing, Pharmacy, Dentistry, Veterinary Science, and Allied Biological Subjects. - 19th ed. ; Книга на английском языке. - Philadelphia-London : W.B.Saunders, 1953. - 639 p. : il. - 2.50.

### c) Internet sources:

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://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/>

## **DEVELOPERS:**

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