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ФИО: Ястребов Олег Александрович
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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

Periodontology

course title

Recommended by the Didactic Council for the Education Field of:

31.05.03 Dentistry

field of studies / speciality code and title

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

Dentistry

higher education programme profile/specialisation title

2023-2024

1. COURSE GOAL(s)

The goal of the course "Periodontology" is to equip students with the knowledge of provision outpatient dental therapeutic care to patients with periodontal diseases, and a set of measures aimed at preventing this disease.

2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course (module) «Periodontology» is aimed at the development of the following competences /competences in part: GPC- 2, 5, 6, PC – 1,2 .

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

Competence code	Competence descriptor	Competence formation indicators (within this course)
GPC – 2	Being able to analyze the results of their own professional activity to prevent professional errors	GPC-2.1. Analysing the causes of professional errors, therapeutic failures and conflict situations;
		GPC-2.2. Providing scientific arguments for and implementing recommendations aimed at improving the medical and legal training of dentists, preventing professional errors, adverse outcomes and conflict situations.
GPC –5	Being able to examine patients to determine a diagnosis when solving professional tasks	GPC-5.1. Gathering anamnesis by analysing the patient's complaints, making a physical examination at a dental appointment.
		GPC-5.2. Formulating a preliminary diagnosis and drawing up a plan for laboratory and instrumental examinations of a dental patient
		GPC-5.3. Compiling medical documentation for a dental patient in accordance with regulatory requirements
		GPC-5.4. Referring a patient to a laboratory examination in case there are medical indications 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 dental care.
		GPC-5.5. Referring a patient to an instrumental examination in case there are medical indications in accordance

		with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of dental care taking into account the standards.
		GPC-5.9. Making a diagnosis based on the current international statistical classification of diseases and health problems.
GPC – 6	Being able to prescribe non-drug and drug treatment, monitor its efficacy and safety when solving professional tasks	GPC-6.1. Developing a plan for dental disease treatment taking into account the diagnosis, age and clinical picture 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 medical care standards.
		GPC-6.2. Selecting medical products (including dental materials) for drawing up a comprehensive plan for dental disease treatment. Following up the treatment of a patient
PC-1	Being able to make an examination of a patient in order to determine a diagnosis.	PC-1.1. Making an initial examination and/or reexamination of a patient in order to make a preliminary diagnosis.
		PC-1.2. Receiving information from patients (their relatives/legal representatives); conducting a questionnaire survey of patients regarding their general health status; identifying concomitant diseases in order to make a preliminary diagnosis.
		PC-1.3. Detecting if patients have dentoalveolar, facial anomalies, deformities and prerequisites for their development, defects in the crowns of teeth and dentition on the basis of the patient examination; laboratory, instrumental, and additional examinations in order to make a preliminary/final diagnosis.
PC –2	Being able to prescribe, monitor the efficacy and safety of non-drug and drug treatment	PC-2.1. Organizing the provision of emergency and urgent medical care for acute dental diseases, conditions, exacerbation of chronic diseases, which pose a threat to the patient's life, or without obvious signs of a threat to the

		patient's life.
		PC-2.2. Selecting drugs and medical devices (including dental materials) for dental disease treatment assessing the possible side effects of taking medicinal drugs
		PC-2.3. Consulting patients on methods for treating dental diseases drawing up a comprehensive treatment plan which justifies the most appropriate tactics and assesses possible complications caused by using this technique.
		PC-2.4. Selecting the type of local anesthesia/anesthesia and assessing the possible complications caused by using it.
		PC-2.5. Conducting a specialized appointment for adults and/or children, monitoring the course of treatment of caries, non-carious dental diseases, pulpitis, periodontal disease, periodontitis, jawbone tissue, peripheral nervous system of the maxillofacial area, temporomandibular joint, salivary glands, diseases of the mucous tunic of mouth, with the exception of precancers, using modern treatment methods approved for use in medical practice

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*
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GPC – 2	Being able to analyze the results of their own professional activity to prevent professional errors	Endodontics Cariology and hard tissues diseases	Gerontotechnology and diseases of the mucous membranes of the oral cavity Physiotherapy of dental diseases
GPC- 5	Being able to examine patients to determine a diagnosis when solving professional tasks Being able to prescribe non-drug and drug treatment, monitor its efficacy and safety when solving professional tasks	Endodontics Cariology and hard tissues diseases	Gerontotechnology and diseases of the mucous membranes of the oral cavity Physiotherapy of dental diseases
GPC – 6	Being able to make an examination of a patient in order to determine a diagnosis.	Endodontics Cariology and hard tissues diseases	Gerontotechnology and diseases of the mucous membranes of the oral cavity Physiotherapy of dental diseases
PC - 1	Being able to make an examination of a patient in order to determine a diagnosis.	Prevention and community dentistry Propedeutics Local anesthesia and anesthesiology in dentistry Material science Endodontics Cariology and hard tissues diseases	Gerontostomatology and diseases of the oral mucosa Physiotherapy of dental diseases Dental prosthetics (simple prosthetics) Prosthetics in the absence of teeth Oral surgery Maxillofacial and gnathic surgery Complex dental prosthetics Diseases of the head and neck Implantology and oral reconstructive surgery

PC – 2	Being able to prescribe, monitor the efficacy and safety of non-drug and drug treatment	Prevention and communal dentistry Propedeutics Local anesthesia and anesthesiology in dentistry Materials science Endodontics Cariology and hard tissues diseases	Gerontostomatology and diseases of the oral mucosa Physiotherapy of dental diseases Dental prosthetics (simple prosthetics) Prosthetics in the absence of teeth Oral surgery Maxillofacial and gnathic surgery Complex dental prosthetics Diseases of the head and neck Implantology and oral reconstructive surgery
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* To be filled in according to the competence matrix of the higher education programme.

4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course “Periodontology” is 7 credits (252 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			
		VII	VIII		
<i>Contact academic hours</i>	176	68	108		
including:	-	-	-		
<i>Lectures</i>					
Lectures (LC)					
Lab work (LW)	176	68	108		
Seminars (workshops/tutorials) (S)					
Of them in interactive form (IF)	3	1	2		
<i>Self-studies</i>	76	30	46		
Course workload	Academic hours	252	98	154	
	Credits	7	3	4	

* To be filled in regarding the higher education programme correspondence training mode.

5. COURSE CONTENTS

Table 5.1. Course contents and academic activities types

Course module title	Course module contents (topics)	Academic activities
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		types
The structure of the periodontium. Etiology and pathogenesis of periodontal disease	The concept of periodontal complex, features of functioning and biomechanics of periodontal. Modern view on the etiology of periodontal disease. Pathogenetic aspects of the development of periodontal pathology in the light of modern scientific research. Stages of pathogenesis. Classification of periodontal diseases (ICD-10, etc.) Terminology. Examination of a patient with periodontal disease. Basic and additional methods of examination. Preparation of survey plan and documentation.	(LW)
Gingivitis acute and chronic	Catarrhal gingivitis. Etiology, pathogenesis. The role of local and General factors in the etiology of gingivitis. Prevalence, clinic, Differential diagnosis. Gingivitis is hyperplastic. Etiology, pathogenesis. The role of local and General factors in the development of gingival hypertrophy. Prevalence, clinic Differential diagnosis. Gingivitis is ulcerative. Etiology, pathogenesis. The role of local and General factors in the etiology of gingivitis. Prevalence, clinic. Differential diagnostics. General and local treatment. Professional oral hygiene, anti-inflammatory therapy.	(LW)
Marginal periodontitis	Periodontitis: acute, chronic, exacerbation of chronic, stage of remission. Localized, generalized. Aggressive forms of periodontitis. Etiology, pathogenesis, clinic, differential diagnosis. Complex treatment of patients with periodontal disease. The use of therapeutic, orthopedic, orthodontic and physiotherapy methods in the complex treatment of periodontal diseases. Methods of surgical treatment of periodontal disease. Basic methods of periodontal surgery (gingivectomy, curettage, flap surgery). Method of directed regeneration of periodontal tissues. Periodontal surgery periodontal: vestibuloplastika, frenulectomy, periodontal plastic.	(LW)
Periodontosis	Periodontal disease: Etiology, pathogenesis, pathomorphology. Clinic, differential diagnosis of periodontal disease. Local recession of the gums. Classification,	(LW)

	etiology, methods of treatment	
Periodontolisis Periodontomas	Periodontal disease with progressive lysis of periodontal. Features of clinical manifestations. Tumors and tumor-like periodontal disease. Features of clinical manifestations.	(LW)
Changes in periodontal disease in somatic diseases	Changes in periodontal diseases of the gastrointestinal tract, endocrine diseases, blood diseases. Clinic, diagnosis, treatment plan. Symptomatic patients with HIV infection, AIDS. Clinic, diagnosis, treatment plan.	(LW)
Prevention of periodontal diseases	Supporting therapy. Dispanserization	(LW)

* - 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

Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)
Lecture	A lecture hall for lecture-type classes, equipped with a set of specialised furniture; board (screen) and technical means of multimedia presentations.	
Lab work	A classroom for laboratory work, individual consultations, current and mid-term assessment; equipped with a set of specialised furniture and machinery.	equipped with special equipment (dental units, portable drill, phantoms, models) and the necessary materials (tools, medicines, filling materials). Each audience has a multimedia complex. Each audience has a multimedia complex (laptop, beamer).
Seminar	A classroom for conducting seminars, group and individual consultations, current and mid-term assessment; equipped with a set of specialised furniture and technical means for multimedia presentations.	equipped with special equipment (dental units, portable drill, phantoms, models) and the necessary materials (tools, medicines, filling materials). Each audience has a multimedia complex. Each audience has a

Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)
		multimedia complex (laptop, beamer).
Computer Lab	A classroom for conducting classes, group and individual consultations, current and mid-term assessment, equipped with personal computers (in the amount of ___ pcs), a board (screen) and technical means of multimedia presentations.	List of specialised software installed on computers for mastering the discipline
Self-studies	A classroom for independent work of students (can be used for seminars and consultations), equipped with a set of specialised furniture and computers with access to the electronic information and educational environment.	

7. RESOURCES RECOMMENDED FOR COURSE STUDY

Main readings:

1. Periodontology: a textbook for fourth-year students of the Faculty of Dentistry (in English) / F.Yu. Daurova, Makeeva M.K., Z.S. Khabadze, I.V. Bagdasarova, A.I. Markov. - Moscow: RUDN University, 2018.-156p.
2. CARRANZA'S CLINICAL PERIODONTOLOGY, 12TH EDITION ISBN: 978-0-323-18824-1, 2015, 2012, 2006 by Saunders, an imprint of Elsevier Inc.

Additional readings:

Internet sources

1. Electronic libraries (EL) of RUDN University and other institutions, to which university students have access on the basis of concluded agreements:

- RUDN Electronic Library System (RUDN ELS) <http://lib.rudn.ru/MegaPro/Web>
- EL "University Library Online" <http://www.biblioclub.ru>
- EL "Yurayt" <http://www.biblio-online.ru>
- EL "Student Consultant" www.studentlibrary.ru
- EL "Lan" <http://e.lanbook.com/>
- EL "Trinity Bridge"

2. Databases and search engines:

- electronic foundation of legal and normative-technical documentation <http://docs.cntd.ru/>
- Yandex search engine [https:// www .yandex.ru/](https://www.yandex.ru/)
- Google search engine <https://www.google.ru/>
- Scopus abstract database <http://www.elsevierscience.ru/products/scopus/>
- PUBMED <https://pubmed.ncbi.nlm.nih.gov/>
- WHO Documentation Center <http://whodc.mednet.ru/>

1. software_ - there is Microsoft office 2012 software for practical training
2. resources of the information and telecommunication network "Internet":
3. Databases and search engines:

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

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

* 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 (GPC- 2, 5, 6, PC – 1,2) 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:

Head of Conservative Dentistry

Department, Associate

Z.S. Khabadze

Professor

position, department

signature

name and surname

Head of Educational Process of

Conservative Dentistry

Department, Associate

I.V. Bagdasarova

Professor

position, department

signature

name and surname

Associate Professor of

Conservative Dentistry

Department

M.K. Makeeva

position, department

signature

name and surname

HEAD OF EDUCATIONAL DEPARTMENT:

of Conservative Dentistry

Z.S. Khabadze

Department, Associate

Professor

name of department

signature

name and surname

**HEAD
OF HIGHER EDUCATION PROGRAMME:**

Deputy Director of MI for

Academic Affairs

position, department

signature

S.N. Razumova

name and surname