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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

Prevention and Public Dental Health

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

2022-2023

1. COURSE GOAL(s)

The goal of the course “Prevention and Public Dental Health” is to equip students with the theoretical and practical knowledge 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) “Prevention and Public Dental Health” is aimed at the development of the following competences /competences in part: PC-4, GPC-4, GPC-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-4	Being able to monitor the effectiveness of preventive measures, healthy lifestyle formation and sanitary and hygienic education of the population	PC-4.1. Analyzing the awareness of the population of a healthy lifestyle and medical literacy.
		PC-4.2. Developing a plan to improve sanitary culture and prevent diseases of the population, organizational and methodological measures aimed at increasing the awareness of the population of a healthy lifestyle, its literacy in dental disease prevention.
		PC-4.3. Preparing an oral presentation or a printed text that promotes a healthy lifestyle and increases the literacy of the population concerning dental disease prevention.
GPC-4	Being able to conduct and monitor the effectiveness of sanitary, anti-epidemic and other preventive measures to protect public health	GPC-4.1. Conducting brief preventive counseling, preventive examinations of the population and measures to reduce morbidity, including infectious diseases, disability, mortality, lethality.
		GPC-4.2. Drawing up a plan of preventive dental care for patients and selecting drugs and medical devices in the Dental Materials category for preventing dental diseases; monitoring their implementation.
		GPC-4.3. Providing qualified medical care in their specialty using modern prevention methods approved for use in medical practice.

		GPC-4.4. Organizing monitoring the prevention of diseases of the oral mucosa and lips, including Being able to conduct and monitor the effectiveness of sanitary, anti-epidemic and other preventive measures to protect public health oncological and hygienic prevention and secondary prevention of oncological neoplasms, with the exception of specialized appointments for the treatment of precancers of the oral mucosa and lips.
GPC-5	Being able to conduct health and hygiene education among the population and medical workers in order to form a healthy lifestyle	GPC-5.1. Motivating patients (their relatives/legal representatives) to stick to a healthy lifestyle and give up bad habits.
		GPC-5.2. Promoting positive behavior so that patients (their relatives/legal representatives) maintain and improve their level of health .

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-4			Hygiene
GPC-4			Observing and Assisting a Dentist (Hygiene) Pediatric Dentistry Observing and Assisting a Dentist (Pediatric)
GPC-5	Being able to conduct health and hygiene education among the population and medical workers in order to form a healthy lifestyle		Observing and Assisting a Dentist (Hygiene) Pediatric Dentistry Observing and Assisting a Dentist (Pediatric)

* 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 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			
		3	4	5	
<i>Contact academic hours</i>					
including:					
Lectures (LC)					
Lab work (LW)	156	51	54	51	
Seminars (workshops/tutorials) (S)					
<i>Self-studies</i>	96	21	18	57	
<i>Evaluation and assessment (exam/passing/failing grade)</i>	7	2	2	3	
Course workload	academic hours	252			
	credits	7			

5. COURSE CONTENTS

Table 5.1. Course contents and academic activities types

Course module title	Course module contents (topics)	Academic activities types
The history of the Department of General Dentistry. Introduction to the prevention of dental disease course and community dentistry	A brief historical sketch of the development of dentistry. The current content of the discipline. Determination of discipline "Prevention and municipal dentistry." Aims and objectives of discipline.	LW

<p>Fundamentals of the sanitary and anti-epidemic regime in dentistry (Part 1) Fundamentals of the sanitary and anti-epidemic regime in dentistry (Part 2))</p>	<p>Introduction to the mode structure and dental offices tools. Organization and equipment dental office. Types of dental units. Mastering the skills of using dental instruments for inspection of the mouth. Equipment. Tools.</p> <p>Aseptic and antiseptic in dentistry. Types of sterilization of dental instruments and handpieces. Prevention of HIV infection. Occupational Health and Safety. Sanitary and hygiene requirements for premises and workplaces dentist.</p>	<p>LW</p>
<p>Examination of dental patient. Diagnostic methods used in dentistry</p>	<p>Clinical examination of the patient. Basic and additional verification methods.</p> <p>Methods for assessing the level of the oral hygiene index, the intensity of caries and the condition of periodontal tissues. visual inspection. Dentition. Condition of the oral mucosa.</p> <p>Functional diagnostics methods.</p>	<p>LW</p>
<p>Epidemiology of dental diseases. The prevalence and intensity of dental diseases.</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.</p> <p>Epidemiological surveys in different regions of the Russian Dental incidence of different population groups.</p> <p>The prevalence and intensity of caries and periodontal disease.</p> <p>The levels of implementation of prevention in public health practice.</p>	<p>LW</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.	
Design principles, implementation and evaluation of prevention programs	<p>Assessment of the level of dental care. Monitoring of dental morbidity.</p> <p>Planning prevention programs stages.</p> <p>Situation analysis - the basis of the prevention program planning.</p> <p>The goal of the program objectives, the choice of methods and means. The staff involved in the implementation of programs, material support.</p> <p>Assessment of program effectiveness. Prediction of dental disease. Collection and statistical analysis of medical and dental diseases. Medical records</p> <p>program implementation levels: individual, group, population.</p> <p>Institutional arrangements for the implementation of the prevention program.</p> <p>prevention programs for workers of enterprises relating to occupational hazards.</p> <p>Features of carrying out of preventive measures among patients with somatic diseases, cancer patients, people with disabilities, people living in unfavorable environmental conditions, are in conditions of prolonged isolation, and others.</p>	LW
I milestone certification	Test control	LW
The structure of tooth enamel. Superficial formations on the teeth.	The structure of tooth enamel. Surface formation on teeth. Functional anatomy of the dentition. The structure of the enamel. The organic and inorganic composition of the enamel. Crystal enamel, enamel food.	LW
Theory development of dental caries.	Surface formations on the teeth and dental plaque: the cuticle, pellicle, plaque, tartar. The mechanism of formation of dental plaque, the composition, structure, role in the occurrence of caries and periodontal disease.	LW
Risk factors for dental caries. Enamel caries resistance. cariogenic situation.	<p>General and local risk factors for caries. The importance of plaque, nutrition, fluoride and other factors in the occurrence and development of caries.</p> <p>Enamel resistance to caries, methods for its assessment.</p> <p>The value of the composition and properties of saliva in the processes of de - and remineralization of enamel.</p> <p>The concept of a cariogenic situation. Evaluation and</p>	LW

	ways to eliminate it. Stefan curve. Indices of caries intensity (DMF, dmf of teeth and surfaces).	
Indices of oral hygiene. (Part 1)	International digital system for the designation of human teeth. The mechanism of formation of dental deposits. Plaque indication methods. Methods for determining tartar. Periodontal probe. Appointment. Definition of the Simplified Oral Hygiene Index (OHI-S); his interpretation. The meaning of the terms: “professional oral hygiene”, “individual oral hygiene”. Indexes used in dental research.	LW
Indices of oral hygiene. (Part 2)	Determination of the hygienic state of the mouth according to the indices of Fedorov - Volodkina, Green - Vermillion, Kuzmina, etc. Calculation of hygiene indices. Oral hygiene performance index. Definition technology. Evaluation and interpretation.	LW
Indices of oral hygiene. (Part 2)	Acquisition and consolidation of practical skills for examining and determining the level of oral hygiene according to the Fedorov-Volodkina, Green-Vermilion, Kuzmina indices. Maintaining medical records	LW
Teeth brushing, basic means of individual oral hygiene.	Oral hygiene products. Toothbrushes and requirements for them. Classification, composition, properties of toothpastes. Abrasiveness of toothpastes. Individual selection of oral care products for the patient, considering the age and dental status. Teeth brushing methods. Controlled brushing of teeth and methods of its implementation. Features of teaching brushing teeth to children of different ages and adults	LW
Additional means of individual oral hygiene	Appointment and methods of using rinses, elixirs, dental floss, interdental brushes, toothpicks, irrigators, tongue brushes, chewing gums.	LW
Dental education of the population	Purpose, methods, means and forms of dental education. Motivation of the population to maintain oral health. The content, features and organization of dental education in antenatal clinics, rooms for a healthy child, kindergartens, schools, dental clinics, including those with somatic pathology. Personnel involved in dental education. Hygienic education of the population. Conducting "health lessons", conversations, lectures in organized children's and adult groups. Maintaining medical records Methods for assessing the effectiveness of dental education. Population survey.	LW
II milestone certification	Testing.	LW

Passed.	Scoring.	LW
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5.1. Contents 4 semester

Course module title	Course module contents (topics)	Academic activities types
Control the level of residual knowledge Head: Head of the Department of General and Clinical dentistry professor Avanesov AM	Poll. Test control Prevention of dental diseases. Dental disease of the Russian population. Epidemiological study. The levels of implementation of prevention in public health practice. Individual oral hygiene: importance in the prevention of dental diseases, methods and means codes.	LW
Determining the presence of dental plaque.	Qualitative and quantitative evaluation of the presence of dental plaque. Hygiene indices: index Fedorov-Volodkina hygiene index Green-Vermillion, efficiency index oral hygiene (PHP), plaque index API on approximal tooth surfaces.	LW
Methods for diagnosing the state of hard tissues of teeth - caries of the initial caries of enamel. The use of fluorine-containing and calcium agents. Enamel remineralization. Sealing of dental fissures. The use of ozone for the prevention of caries	Acquisition and fastening skills to determine the level of hygiene of the oral cavity in phantom. Keeping medical records. Low enamel caries, dental caries. Application of fluoride-containing and calcium-containing agents. Remineralization of enamel. Dental fissure sealing. The use of ozone for the prevention of caries	LW
Part 1. The professional oral hygiene.	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. Securing the practical skills on phantoms.	LW
Part 2. professional oral hygiene.	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. Securing the practical skills on phantoms.	LW
Parodont. Structure and function of periodontal	Modern ideas of periodontal diseases. The etiology of periodontal diseases: general and local factors of periodontal diseases and their detection. Periodontal microflora in the mouth. The pathogenesis of	LW

	periodontal disease: mechanisms of development of inflammatory periodontal diseases. Clinical manifestations.	
Classification of periodontal diseases.	Diagnosis of periodontal disease. Periodontal indices. General and local risk factors for periodontal disease. Therapeutic and preventive measures aimed at the causes of periodontal disease.	LW
Prevention of periodontal diseases. Acquiring and practicing the skills of conducting periodontal indexes on phantoms.	Laboratory work "The value of individual and professional oral hygiene in the prevention of periodontal diseases. Modern methods and means of prevention»	LW
Treatment of periodontal disease. Meaning of the individual and the professional oral hygiene in treatment of periodontal disease.	General and local factors of periodontal diseases and their detection. Periodontal microflora in the mouth. Mechanisms of development of inflammatory periodontal diseases. Clinical manifestations.	LW
I milestone certification on the topic: "Prevention of periodontal disease"	Testing	LW
Non-carious lesions of dental hard tissues.	Classification. Carious lesions hard tooth tissues arising before the eruption of the tooth. Systemic and local hypoplasia, hyperplasia. Etiology. Clinic. Fluorosis. Etiology. The clinical picture. Methods of prevention and treatment	LW
Non-carious lesions of hard tooth tissue	Non-carious lesions of dental hard tissues arising after tooth eruption. Abnormal abrasion. The wedge-shaped defect. Erosion of dental hard tissues. Pigmentation. Etiology. The clinical picture. Methods of prevention and treatment.	LW
"Inspection of the mouth." Acquisition and development of practical skills.	Laboratory work	LW
Features of the professional oral hygiene in patients with non-carious disease	Stages of occupational health, particularly its implementation in patients with hypersensitivity enamel, patients with wedge-shaped defects, erosion of enamel hypoplasia, etc.	LW
Features of individual oral	Education and selection of the oral hygiene in patients hypersensitive enamel, patients with wedge-shaped	LW

hygiene in patients with non-cariou lesions	defects, erosions, hypoplasia enamel etc.	
II milestone certification on the topic: "Prevention of non-cariou lesions in the mouth"	Testing	LW
Control of students' independent work.	Hearing abstracts.	LW
Interim Certification. Passed.	Solution of situational tasks. Scoring	LW

5.1. Contents 5 semester

Course module title	Course module contents (topics)	Academic activities types
Control the level of residual knowledge of the third semester of the subject.	Formation on the teeth. Theory development of dental caries. Oral hygiene. Therapeutic and preventive hygiene. Techniques brushing. Remineralizing therapy. Prevention of non-cariou lesions that develop before tooth eruption. Prevention of non-cariou lesions developing after tooth eruption.	LW
Control of the level of residual knowledge of the fourth semester in the subject.	The survey and test control. Structure and function of periodontal. Classification of periodontal diseases. Clinical features, diagnosis. General and local factors of periodontal disease. Indices of hygiene and periodontal indices. The concept of professional oral hygiene. Hardware methods of removing dental plaque.	LW
The mucosa of the mouth shelf (GPRS): structure, function, pathomorphological elements.	Oral mucosa: structure, function, pathomorphological elements	LW
Classification GPRS diseases. Traumatic, infectious, allergic diseases GPRS. Clinical manifestations, etiology, prevention, treatment principles.	Obligate precancer: Bowen's disease, verrucous precancer, circumscribed red border hyperkeratosis, abrasive precancerous cheilitis. Facultative precancerous diseases: leukoplakia, keratinizing papilloma, papillomatosis, keratoacanthoma, cutaneous horn	LW
Changes GPRS when dermatosis, glossitis, cheilitis. Clinical	Oral mucosa in diseases of the blood, gastrointestinal tract, central nervous system, cardiovascular system, kidneys, endocrine diseases, acute and chronic infectious diseases, allergic diseases.	LW

manifestations, etiology, prevention, treatment principles.		
Facultative and obligate precancerous diseases of the oral cavity Clinic, etiology, prevention, principles of treatment. Cancer alertness in the practice of a dentist.	Resolution of the attending physician about the safety of dental treatment. The treatment plans. Stages of dental treatment in the treatment of dental diseases in patients with comorbidity.	LW
Communication of changes in the oral cavity and maxillofacial region with the generally accepted tactics for the treatment of diseases. Features of the treatment of dental diseases in patients with concomitant diseases.	Demonstration of patients and analysis of clinical cases of the condition of the oral mucosa, blood diseases, gastrointestinal tract, central nervous system, cardiovascular system, kidneys, endocrine diseases, acute and chronic infectious diseases, allergic diseases.	LW
I milestone certification	Testing	LW
The concept of anomaly and deformation. Prevention of congenital malformations and deformities of the maxillofacial region.	The concept of anomalies and deformations in the maxillofacial region. Education of various population groups in a healthy way of life. Etiological factors contributing to the development of anomalies and deformities and prevention at different ages.	LW
Prevention of complications and prevention of major dental diseases in pregnant women. Clinical management of dental diseases in pregnant women	Organization of proper nutrition before and during pregnancy with the exception of bad habits and harmful environmental factors (environmental and professional). Organizing proper feeding, limiting the use of a pacifier, eliminating bad habits (thumb sucking, etc.) that affect the formation of dental anomalies. Tactics and terms of treatment of dental diseases in pregnant women	LW
Prevention of major	Organization of proper nutrition before and during	LW

dental diseases in the fetus.	pregnancy with the exception of bad habits and harmful environmental factors (environmental and professional).	
Prevention of stress conditions at the dental appointment.	Prevention of emergency conditions at an outpatient dental appointment. Principles of assistance in emergency clinical situations at an outpatient dental appointment.	LW
Occupational diseases. Harmful production factors. Occupational diseases of dentists. Stress conditions at an outpatient dental appointment.	Occupational hazards (such as lead, mercury, asbestos). Prevention. Occupational diseases of the dentist (diseases of the musculoskeletal system as a result of improper posture of the dentist), allergic diseases that occur in the doctor as a result of contact and inhalation of medicinal substances, dust during tooth preparation.	LW
Clinical examination as a method of improving the health of the population. Purpose, tasks, contingent assessment of clinical examination	Goals, objectives, assessment of clinical examination. The contingent of dental patients subject to dispensary observation. Maintaining medical records.	LW
II milestone certification	Testing	LW
Consolidation of manual skills acquired in the course of work in communal dentistry.	Laboratory work	LW
Demonstration of manual skills acquired in the study of community dentistry.	Laboratory research	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)
Lab work	Classroom for laboratory work, individual consultations, routine	Installing the dental chair with Hiradent 654-3 -1 pc.

Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)
	monitoring and interim certification, equipped with a set of specialized furniture and equipment.	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.
Seminar	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, whiteboard; a set of devices includes portable multimedia projector, laptop, projection screen, stable wireless Internet connection. 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
Computer Lab	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, whiteboard; a set of devices includes portable multimedia projector, laptop, projection screen, stable wireless Internet connection. 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 The workplace of the student /

Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)
		teacher as part of the system unit, monitor, keyboard - 8 pcs., there is an Internet connection. Software: Windows 8.1 Corporate (Microsoft Office Professional Plus 2007, Corporate Licensing Program (Microsoft Subscription) Enrollment for Education Solutions № 86626883от 01.04.2018 г.) Sirona Wibv-systems 1001-02-160-0445 №№ 1)2-3067086, 2016 2)2-2707139 , 2016 3)2-2707136 , 2016 4)2-2707154 , 2016 5)2-2536154 , 2016 6)2-2707122 , 2016 7)2-2695658 , 2016 8)2-2707144 , 2016

7. RESOURCES RECOMMENDED FOR COURSE STUDY

a) Main readings

Tutorial Guide of Operative Dentistry for Dental Students of Second and Third Years of Education : Учебное пособие для студентов стоматологического факультета / Ф.Ю. Даурова, М.К. Макеева, З.С. Хабазе. - Электронные текстовые данные. - М. : Изд-во РУДН, 2016. - 151 с.
http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=452391&idb=0

b) Additional readings:

1. 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 anesthesiology ; V. 12). - 38.91
2. 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.

3. 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://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 “Prevention and Public Dental Health”
2. The laboratory workshop (if any).on the course “Prevention and Public Dental Health”
3. The guidelines for writing a course paper / project (if any) on the course “Prevention and Public Dental Health”.
4.

* 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-4, GPC-4, GPC-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:

Associate Professor of the
Department of general and
clinical dentistry

E.N.Gvozdikova

position, department

signature

name and surname

HEAD of the Department:
of general and clinical
dentistry

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A.M.Avanesov

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HEAD of the Higher Education Program:

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S.N. Razumova

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