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

Institute of Medicine

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

COURSE SYLLABUS

Clinical Dentistry

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

1. COURSE GOAL(s)

The goal of the course «**Clinical Dentistry**» is to equip students with knowledge of providing dental care to patients with somatic diseases.

2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course (module) «**Clinical Dentistry**» is aimed at the development of the following competences /competences in part: PC-6, PC-12, GPC-2, GPC-6.

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

Competence code	Competence descriptor	Competence formation indicators (within this course)
PC-6	Being able to prescribe non-drug and drug treatment, monitor its efficacy and safety when solving professional tasks	PC-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.
PC-12	Being able to implement and monitor the effectiveness of medical rehabilitation of a dental patient	PC-12.1. Developing optimal tactics for the treatment of oral pathology in children and adults considering the general somatic disease and further rehabilitation of a patient.
		PC-12.2. Applying methods of complex rehabilitation of patients with dental diseases considering the general condition of the body and the presence of concomitant pathology.
GPC-2	Being able to prescribe, monitor the efficacy and safety of non-drug and drug treatment	GPC-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.
GPC-6	Being able to analyze and present in public medical information based on evidence-based medicine, participate in scientific research, introduce new methods and techniques aimed at protecting public health	GPC-6.3. Conducting public presentation of medical information based on evidence-based medicine/ partial participation in scientific research.

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-6	Being able to prescribe non-drug and drug treatment, monitor its efficacy and safety when solving professional tasks	Prevention and Public Dental Health; Propaedeutics of Dental Diseases	Observing and Assisting a Dentist (General Dentistry)
PC-12	Being able to implement and monitor the effectiveness of medical rehabilitation of a dental patient	Prevention and Public Dental Health; Propaedeutics of Dental Diseases	Observing and Assisting a Dentist (General Dentistry)
GPC-2	Being able to prescribe, monitor the efficacy and safety of non-drug and drug treatment	Prevention and Public Dental Health; Propaedeutics of Dental Diseases	Observing and Assisting a Dentist (General Dentistry)
GPC-6	Being able to analyze and present in public medical information based on evidence-based medicine,	Prevention and Public Dental Health; Propaedeutics of Dental Diseases	Observing and Assisting a Dentist (General Dentistry)

	participate in scientific research, introduce new methods and techniques aimed at protecting public health		
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4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course is 4 credits (144 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	10		
<i>Contact academic hours</i>	144	32	48		
Lectures (LC)					
Lab work (LW)	80	32	48		
Seminars (workshops/tutorials) (S)					
<i>Self-studies</i>	64	40	24		
<i>Evaluation and assessment (exam/passing/failing grade)</i>	15	9	6		
Course workload	academic hours	144	72	72	
	credits	4	2	2	

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

5. COURSE CONTENTS

Table 5.1. The content of the discipline and types of academic activities

Course module title	Course module contents (topics)	Academic activities types
Introduction to Clinical Dentistry	Aims and objectives of the discipline "Clinical Dentistry". The role and place of a dentist in somatic clinic.	LW

<p>Parsing rare (complex) of clinical cases experience department.</p> <p>Indications for therapeutic, orthopedic and surgical treatment of patients with somatic pathology with specialists in other fields</p> <p>Algorithm of dental care for patients with somatic disorders and diseases of the oral mucosa.</p> <p>Prevention. Rehabilitation. The quality of life of patients.</p>	<p>Indications for therapeutic, orthopedic and surgical treatment of patients with somatic pathology with specialists in other fields</p> <p>Algorithm of dental care for patients with somatic disorders and diseases of the oral mucosa.</p> <p>Prevention. Rehabilitation. The quality of life of patients.</p>	<p>LW</p>
<p>Complex clinical cases dentists' general practice.</p>	<p>Discipline of Clinical Dentistry</p>	<p>LW</p>
<p>Comprehensive dental rehabilitation of patients with somatic diseases (diseases of the cardiovascular system, metabolic disorders, diseases of the blood).</p>	<p>Methods of dental examination and modern programs of dental treatment of patients with somatic pathology.</p> <p>- complications that arise in the course of the underlying disease (propensity to infection, bleeding, reduction of regenerative processes and others.); modern possibilities of dental implantation. Precancerous diseases of the oral mucosa.</p>	<p>LW</p>
<p>Providing dental care to patients receiving chemoradiotherapy.</p>	<p>Classes are held on the basis of scientific and clinical departments of the Russian Scientific Center of Radiology</p>	<p>LW</p>
<p>The role of the dentist in solving interdisciplinary problems.</p> <p>Parsing complex clinical cases using tools and methods for telemedicine.</p>	<p>The volume of the preparation and oral cavity design in the treatment of dental caries, erosion of enamel and dentin, wedge-shaped defects of different localization.</p> <p>Selection of composite material and the adhesion process. Demonstration features photos of dental on clinical examples from the professional experience of general practice dentist.</p>	<p>LW</p>

Demonstration clinical department material. (Including a live broadcast of the clinical situations RNTSRR) Consultation on the preparation and protection of the course work.		
Clinical simulation ambulatory situations requiring dental-surgery. 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. Demonstration of dental photographs on clinical examples	Restoring lost tooth structure. Indications ceramic crowns and inlays. Preliminary tooth preparation. Quality control treatment. Demonstration of dental photo opportunities on clinical examples of professional experience general dentist.	LW
Clinical aspects of calcium metabolism in an organism. The role of calcium in the prevention of dental diseases.	Outpatient surgery. Preparation for surgery. Instrumentation, anesthesia, surgical operation lengthening the teeth, removing dental varying degrees of complexity. Complications of ambulatory surgery. Prevention of complications. Pharmacological support.	LW
Clinical aspects of immunity in the oral cavity. Protective and barrier functions of the oral mucosa.	"Algorithm for dental treatment of patients with combined pathology" Anamnesis, analysis of test results, doctor related specialties, measurement of blood pressure and heart rate.	LW
Lab № 5	Demonstration and clinical analysis of patients with the use of live video from the clinic of the Russian Scientific Center of Radiology.	LW
Lab № 6. Protection of the abstract. Control of independent work.	Algorithm of dental care for diseases of the oral mucosa.	LW
Final control	Test control. Interview.	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 236	Classroom for laboratory work, individual consultations, routine monitoring and interim certification, equipped with a set of specialized furniture and equipment.	Installing the dental chair with Hiradent 654-3 -1 pc. ED 240 ovens with RS422 (Binder) (9010-0101) (LLC Diaem) - 1pc. RC-2ZT Phantom Frasaco 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 237, 436	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 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

Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)
Computer Lab 437	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, whiteboard; 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 № 86626883 от 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>
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	<p>6)2-2707122, 2016 7)2-2695658, 2016 8)2-2707144, 2016</p>

Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)
	information and educational environment.	

7. RESOURCES RECOMMENDED FOR COURSE STUDY

a) Main readings:

1. Equine Dentistry and Maxillofacial Surgery / Edited by Jack Easley, Padraic Dixon and Nicole du Toit . - Электронные текстовые данные. - Cambridge Scholars Publishing, 2022. - 799 с.

URL: https://mega.rudn.ru/MegaPro/UserEntry?Action=Link_FindDoc&id=513662&idb=0

2. Lund Håheim Lise.

Oral Infections and Systemic Diseases: Scientific Evidence from an Epidemiologic Perspective / H. L. Lund. - Электронные текстовые данные. - Cambridge Scholars Publishing, 2022. - 156 с.

URL: https://mega.rudn.ru/MegaPro/UserEntry?Action=Link_FindDoc&id=513255&idb=0

3. Lund Håheim Lise.

Oral Infections and Systemic Diseases: Scientific Evidence from an Epidemiologic Perspective / H. L. Lund. - Электронные текстовые данные. - Cambridge Scholars Publishing, 2022. - 156 с.

URL: https://mega.rudn.ru/MegaPro/UserEntry?Action=Link_FindDoc&id=513255&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.

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.

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.

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/>

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-6, PC-12, GPC-2, GPC-6) 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
Department of general and
clinical dentistry

position, department

signature

E.N. Gvozdikova

name and surname

Head of Department of general
and clinical dentistry

position, department

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A.M. Avanesov

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HEAD OF EDUCATIONAL DEPARTMENT:

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