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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**

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

**COURSE SYLLABUS**

**Operative Dentistry: Cariology and Hard Tissues Diseases**

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course title

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

**31.05.03 Dentistry**

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field of studies / speciality code and title

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

**Dentistry**

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higher education programme profile/specialisation title

## 1. COURSE GOAL(s)

*The goal* of mastering the academic course "**Cariology and diseases of hard tooth tissues**" is the training of a dentist who can provide patients with diseases of hard tooth tissues with outpatient dental therapeutical care and a set of measures aimed at the prevention of caries and diseases of hard tooth tissues.. *The objectives of the discipline are:*

- development of diagnostic methods used in the examination of patients with diseases of hard tissues of teeth;
- mastering the planning of therapeutic treatment of patients with diseases of dental hard tissues;
- Formation of theoretical and practical skills in the therapeutic treatment of patients with diseases of hard tissues of teeth in outpatient-polyclinic conditions;
- development of detection, elimination and prevention of possible complications in the treatment of diseases of hard tissues of teeth.
- training of students in the preparation of medical records (medical records of inpatient or outpatient patients, incapacity cards, statistical coupons, etc.);
- Familiarization of students with the principles of organization and operation of treatment and prevention institutions of various types;
- training of students in the provision of first aid to dental patients in the event of emergence of emergency conditions;
- the formation of communication skills with the patient, taking into account ethics and deontology, depending on the revealed pathology and characterological features of patients;
- the formation of the student's communication skills with the team.

## 2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course (module) «**Cariology and diseases of hard tooth tissues**» 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*

<b>Competence code</b>	<b>Competence descriptor</b>	<b>Competence formation indicators</b> (within this course)
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<p>GPC –6 (6.1,6.2)</p>	<p>Being able to prescribe non-drug and drug treatment, monitor its efficacy and safety when solving professional tasks</p>	<p>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.</p> <p>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</p> <p>.</p>
<p><b>Professional Competence</b> PC-1 (1.1,1.2,1.3)</p>	<p>Being able to make an examination of a patient in order to determine a diagnosis.</p>	<p>PC-1.1. Making an initial examination and/or reexamination of a patient in order to make a preliminary diagnosis.</p> <p>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.</p> <p>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.</p>
<p>PC –2 (2.1,2.2, 2.3, 2.4, 2.5)</p>	<p>Being able to prescribe, monitor the efficacy and safety of non-drug and drug treatment</p>	<p>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.</p>

		<p>PC-2.2. Selecting drugs and medical devices (including dental materials) for dental disease treatment assessing the possible side effects of taking medicinal drugs</p> <p>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.</p> <p>PC-2.4. Selecting the type of local anesthesia/anesthesia and assessing the possible complications caused by using it.</p> <p>PC-2.5. Conducting a specialized appointment for adults and/or children, monitoring the course of treatment of caries, non-cariou 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</p>
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### 3. THE COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

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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*

N <sup>o</sup>	Code and name of competence	Previous disciplines	Subsequent disciplines (groups of disciplines)
GPC-2.1	Being able to analyse the results of their own professional activity	Bioethics Local anesthesia and anesthesiology in dentistry	Endodontics Gerontostomatology and diseases of the oral mucosa Periodontics Oral surgery

	to prevent professional errors therapeutic failures and conflict situations;		<p>Oral and Maxillofacial Surgery  Head and Neck Diseases  Pediatric Dentistry  Orthodontics and Pediatric  Prosthodontics  Implantology and reconstructive surgery of the oral cavity  Modern Endodontics  Aesthetic Restoration  Observing and Assisting a Dentist (Operative Dentistry and Endodontics)  Observing and Assisting a Dentist (Prosthodontics)  Observing and Assisting a Dentist (Pediatric)  Preparation for and Passing the State Exam  State Exam (Computer Testing)  State Exam (Interdisciplinary Interview)</p>
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.	Bioethics Local anesthesia and anesthesiology in dentistry	<p>Endodontics  Head and Neck Diseases  Gerontostomatology and diseases of the oral mucosa  Periodontics  Oral surgery  Maxillofacial and Orthognathic Surgery  Orthodontics and Pediatric  Prosthodontics  Pediatric Dentistry  Implantology and reconstructive surgery of the oral cavity  Modern Endodontics  Observing and Assisting a Dentist (Prosthodontics)  Observing and Assisting a Dentist (Pediatric)  Preparation for and Passing the State Exam  State Exam (Computer Testing)  State Exam (Interdisciplinary Interview)</p>
GPC-5.1.	Gathering anamnesis by analysing the patient's complaints, making a physical examination at a dental appointment.	Local anesthesia and anesthesiology in dentistry	<p>Internal Medicine  General Surgery  Surgical Diseases  Dermatovenerology  Neurology  Psychiatry and Narcology  Endodontics  Gerontostomatology and diseases of the oral mucosa  Periodontics  Oral surgery  Gnathology and Temporo-Mandibular Joint's Functional Diagnostics</p>

			Prosthodontics (Simple Prosthetics) Prosthodontics of Edentulous Patient Prosthodontics (Complex Prosthetics) Maxillofacial and Orthognathic Surgery Head and Neck Maxillofacial Prosthodontics Pediatric Dentistry Orthodontics and Pediatric Prosthodontics Medical Genetics in Dentistry Modern Endodontics Observing and Assisting a Dentist (Operative Dentistry and Endodontics) Observing and Assisting a Dentist (Prosthodontics) Observing and Assisting a Dentist (Pediatric) Preparation for and Passing the State Exam State Exam (Computer Testing) State Exam (Interdisciplinary Interview)
GPC-5.2	Formulating a preliminary diagnosis and drawing up a plan for laboratory and instrumental examinations of a dental patient	Propaedeutics of Dental Diseases Local anesthesia and anesthesiology in dentistry	Internal Medicine General Surgery Surgical Diseases Dermatovenerology Neurology Psychiatry and Narcology Endodontics Gerontostomatology and diseases of the oral mucosa Periodontics Oral surgery Gnathology and Temporo-Mandibular Joint's Functional Diagnostics Prosthodontics (Simple Prosthetics) Prosthodontics of Edentulous Patient Prosthodontics (Complex Prosthetics) Maxillofacial and Orthognathic Surgery Head and Neck Diseases Pediatric Maxillofacial Dentistry Maxillofacial Prosthodontics Pediatric Dentistry Orthodontics and Pediatric Prosthodontics Medical Genetics in Dentistry Modern Endodontics Observing and Assisting a Dentist (Operative Dentistry and Endodontics) Observing and Assisting a Dentist (Prosthodontics) Observing and Assisting a Dentist (Pediatric)

			Preparation for and Passing the State Exam State Exam (Computer Testing) State Exam (Interdisciplinary Interview)
GPC-5.3	Compiling medical documentation for a dental patient in accordance with regulatory requirements	Propaedeutics of Dental Diseases	Internal Medicine General Surgery Surgical Diseases Dermatovenerology Neurology Psychiatry and Narcology Endodontics Gerontostomatology and diseases of the oral mucosa Periodontics Oral surgery Gnathology and Temporomandibular Joint's Functional Diagnostics Prosthodontics (Simple Prosthetics) Prosthodontics of Edentulous Patient Prosthodontics (Complex Prosthetics) Maxillofacial and Orthognathic Surgery Head and Neck Diseases Pediatric Maxillofacial Dentistry Maxillofacial Prosthodontics Pediatric Dentistry Orthodontics and Pediatric Prosthodontics Medical Genetics in Dentistry Modern Endodontics Observing and Assisting a Dentist (Operative Dentistry and Endodontics) Observing and Assisting a Dentist (Prosthodontics) Observing and Assisting a Dentist (Pediatric) Preparation for and Passing the State Exam State Exam (Computer Testing) State Exam (Interdisciplinary Interview)
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		Internal Medicine Dermatovenerology Endodontics Gerontostomatology and diseases of the oral mucosa Periodontics Pediatric Dentistry Orthodontics and Pediatric Prosthodontics Modern Endodontics Observing and Assisting a Dentist (Pediatric)

	protocols) on the provision of medical care taking into account the standards of dental care.		Preparation for and Passing the State Exam State Exam (Computer Testing)
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.	Propaedeutics of Dental Diseases	Internal Medicine Dermatovenerology Neurology Endodontics Gerontostomatology and diseases of the oral mucosa Periodontics Pediatric Dentistry Orthodontics and Pediatric Prosthodontics Three-dimensional x-ray Diagnostic Methods in Dentistry Observing and Assisting a Dentist (Pediatric) Preparation for and Passing the State Exam State Exam (Computer Testing) State Exam (Interdisciplinary Interview)
GPC-5.9.	Making a diagnosis based on the current international statistical classification of diseases and health problems.	Pathologic Anatomy - Pathologic Anatomy of Head and Neck	Internal Medicine Dermatovenerology Obstetrics Endodontics Gerontostomatology and diseases of the oral mucosa Periodontics Gnathology and Temporomandibular Joint's Functional Diagnostics Prosthodontics (Simple Prosthetics) Prosthodontics of Edentulous Patient Prosthodontics (Complex Prosthetics) Pediatric Maxillofacial Dentistry Maxillofacial Prosthodontics Pediatric Dentistry Orthodontics and Pediatric Prosthodontics Medical Genetics in Dentistry Modern Endodontics Observing and Assisting a Dentist (Operative Dentistry and Endodontics) Observing and Assisting a Dentist (Prosthodontics) Observing and Assisting a Dentist (Pediatric) Preparation for and Passing the State Exam

			State Exam (Computer Testing) State Exam (Interdisciplinary Interview)
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.	Immunology, Clinical Immunology Pharmacology	Internal Medicine Clinical Pharmacology General Surgery Surgical Diseases Health and Safety Dermatovenerology Neurology Psychiatry and Narcology Pediatrics Endodontics Gerontostomatology and diseases of the oral mucosa Periodontics Oral surgery Gnathology and Temporo-Mandibular Joint's Functional Diagnostics Prosthodontics (Simple Prosthetics) Prosthodontics of Edentulous Patient Prosthodontics (Complex Prosthetics) Maxillofacial and Orthognathic Surgery Head and Neck Diseases Pediatric Maxillofacial Dentistry Maxillofacial Prosthodontics Pediatric Dentistry Orthodontics and Pediatric Prosthodontics Medical Genetics in Dentistry Medical Rehabilitation Clinical Dentistry Implantology and Reconstructive Surgery Modern Endodontics Observing and Assisting a Dentist (Pediatric) Observing and Assisting a Dentist (General Dentistry), Including Research Practice Preparation for and Passing the State Exam State Exam (Computer Testing) State Exam (Interdisciplinary Interview)
GPC-6.2.	Selecting medical products (including dental materials) for drawing up a comprehensive plan for dental disease treatment. Following up the	Dental Materials General Surgery	Internal Medicine Surgical Diseases Health and Safety Dermatovenerology Psychiatry and Narcology Endodontics Gerontostomatology and diseases of the oral mucosa Periodontics Oral surgery

	treatment of a patient		<p>Gnathology and Temporo-Mandibular Joint's Functional Diagnostics  Prosthodontics (Simple Prosthetics)  Prosthodontics of Edentulous Patient  Prosthodontics (Complex Prosthetics)  Maxillofacial and Orthognathic Surgery  Head and Neck Diseases  Pediatric Maxillofacial Dentistry  Maxillofacial Prosthodontics  Pediatric Dentistry  Orthodontics and Pediatric Prosthodontics  Medical Genetics in Dentistry  Medical Rehabilitation  Implantology and Reconstructive Surgery  Modern Endodontics  Observing and Assisting a Dentist (Pediatric)  Observing and Assisting a Dentist (General Dentistry), Including Research Practice  Preparation for and Passing the State Exam  State Exam (Computer Testing)  State Exam (Interdisciplinary Interview)</p>
PC-1.1.	Making an initial examination and/or reexamination of a patient in order to make a preliminary diagnosis.	<p>Immunology, Clinical Immunology  Local anesthesia and anesthesiology in dentistry  Propaedeutics of Dental Diseases</p>	<p>Health and Safety  Otorhinolaryngology  Obstetrics  Endodontics  Gerontostomatology and diseases of the oral mucosa  Periodontics  Oral surgery  Gnathology and Temporo-Mandibular Joint's Functional Diagnostics  Prosthodontics (Simple Prosthetics)  Prosthodontics of Edentulous Patient  Prosthodontics (Complex Prosthetics)  Maxillofacial Prosthodontics  Head and Neck Diseases  Pediatric Maxillofacial Dentistry  Maxillofacial and Orthognathic Surgery  Pediatric Dentistry  Orthodontics and Pediatric Prosthodontics  Medical Genetics in Dentistry  Medical Rehabilitation  Implantology and Reconstructive Surgery  Modern Endodontics  Aesthetic Restoration  Observing and Assisting a Dentist (Oral Surgery)</p>

			<p>Observing and Assisting a Dentist (Operative Dentistry and Endodontics)</p> <p>Observing and Assisting a Dentist (Prosthodontics)</p> <p>Observing and Assisting a Dentist (Pediatric)</p> <p>Observing and Assisting a Dentist (General Dentistry), Including Research Practice</p> <p>Preparation for and Passing the State Exam</p> <p>State Exam (Computer Testing)</p> <p>State Exam (Interdisciplinary Interview)</p>
PC-1.2.	<p>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.</p>	<p>Immunology, Clinical Immunology</p> <p>Local anesthesia and anesthesiology in dentistry</p>	<p>Health and Safety</p> <p>Otorhinolaryngology</p> <p>Ophthalmology</p> <p>Obstetrics</p> <p>Endodontics</p> <p>Gerontostomatology and diseases of the oral mucosa</p> <p>Periodontics</p> <p>Oral surgery</p> <p>Gnathology and Temporo-Mandibular Joint's Functional Diagnostics</p> <p>Prosthodontics (Simple Prosthetics)</p> <p>Prosthodontics of Edentulous Patient</p> <p>Prosthodontics (Complex Prosthetics)</p> <p>Maxillofacial Prosthodontics</p> <p>Head and Neck Diseases</p> <p>Pediatric Maxillofacial Dentistry</p> <p>Maxillofacial and Orthognathic Surgery</p> <p>Pediatric Dentistry</p> <p>Orthodontics and Pediatric Prosthodontics</p> <p>Medical Genetics in Dentistry</p> <p>Medical Rehabilitation</p> <p>Implantology and Reconstructive Surgery</p> <p>Modern Endodontics</p> <p>Observing and Assisting a Dentist (Oral Surgery)</p> <p>Observing and Assisting a Dentist (Operative Dentistry and Endodontics)</p> <p>Observing and Assisting a Dentist (Prosthodontics)</p> <p>Observing and Assisting a Dentist (Pediatric)</p> <p>Observing and Assisting a Dentist (General Dentistry), Including Research Practice</p> <p>Preparation for and Passing the State Exam</p> <p>State Exam (Computer Testing)</p>

			State Exam (Interdisciplinary Interview)
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.	Immunology, Clinical Immunology	Health and Safety Endodontics Gerontostomatology and diseases of the oral mucosa Periodontics Gnathology and Temporo-Mandibular Joint's Functional Diagnostics Prosthodontics (Simple Prosthetics) Prosthodontics of Edentulous Patient Prosthodontics (Complex Prosthetics) Pediatric Maxillofacial Dentistry Maxillofacial Prosthodontics Pediatric Dentistry Orthodontics and Pediatric Prosthodontics Medical Genetics in Dentistry Medical Rehabilitation Three-dimensional Computer Modeling of Teeth Modern Endodontics Aesthetic Restoration Observing and Assisting a Dentist (Operative Dentistry and Endodontics) Observing and Assisting a Dentist (Prosthodontics) Observing and Assisting a Dentist (Pediatric) Observing and Assisting a Dentist (General Dentistry), Including Research Practice Cone Beam Computed Tomography in the Diagnosis Planning and Evaluation of the Effectiveness of Dental Solutions Preparation for and Passing the State Exam State Exam (Computer Testing) State Exam (Interdisciplinary Interview)
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	Local anesthesia and anesthesiology in dentistry	Endodontics Gerontostomatology and diseases of the oral mucosa Periodontics Oral surgery Maxillofacial and Orthognathic Surgery Head and Neck Diseases Pediatric Dentistry Orthodontics and Pediatric Prosthodontics Implantology and Reconstructive Surgery Modern Endodontics Observing and Assisting a Dentist (Oral Surgery)

	signs of a threat to the patient's life.		<p>Observing and Assisting a Dentist (Pediatric)</p> <p>Observing and Assisting a Dentist (General Dentistry), Including Research Practice</p> <p>Preparation for and Passing the State Exam</p> <p>State Exam (Computer Testing)</p> <p>State Exam (Interdisciplinary Interview)</p>
PC-2.2.	Selecting drugs and medical devices (including dental materials) for dental disease treatment assessing the possible side effects of taking medicinal drugs	<p>Innovative techniques in dentistry</p> <p>Local anesthesia and anesthesiology in dentistry</p>	<p>Clinical Pharmacology</p> <p>Endodontics</p> <p>Gerontostomatology and diseases of the oral mucosa</p> <p>Periodontics</p> <p>Oral surgery</p> <p>Maxillofacial and Orthognathic Surgery</p> <p>Head and Neck Diseases</p> <p>Pediatric Dentistry</p> <p>Orthodontics and Pediatric</p> <p>Prosthodontics</p> <p>Physiotherapy of Dental Diseases</p> <p>Implantology and Reconstructive Surgery</p> <p>Modern Endodontics</p> <p>Aesthetic Restoration</p> <p>Observing and Assisting a Dentist (Oral Surgery)</p> <p>Observing and Assisting a Dentist (Pediatric)</p> <p>Observing and Assisting a Dentist (General Dentistry), Including Research Practice</p> <p>Preparation for and Passing the State Exam</p> <p>State Exam (Computer Testing)</p> <p>State Exam (Interdisciplinary Interview)</p>
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.	<p>Medical Elementology</p> <p>Bioelements in Medicine</p>	<p>Endodontics</p> <p>Gerontostomatology and diseases of the oral mucosa</p> <p>Periodontics</p> <p>Pediatric Dentistry</p> <p>Orthodontics and Pediatric</p> <p>Prosthodontics</p> <p>Clinical Dentistry</p> <p>Modern Endodontics</p> <p>Observing and Assisting a Dentist (Pediatric)</p> <p>Observing and Assisting a Dentist (General Dentistry), Including Research Practice</p> <p>Preparation for and Passing the State Exam</p> <p>State Exam (Computer Testing)</p>

			State Exam (Interdisciplinary Interview)
PC-2.4.	Selecting the type of local anesthesia/anesthesia and assessing the possible complications caused by using it.	Propaedeutics of Dental Diseases	Clinical Pharmacology Endodontics Gerontostomatology and diseases of the oral mucosa Periodontics Pediatric Dentistry Orthodontics and Pediatric Prosthodontics Modern Endodontics Observing and Assisting a Dentist (Pediatric) Observing and Assisting a Dentist (General Dentistry), Including Research Practice Preparation for and Passing the State Exam State Exam (Computer Testing) State Exam (Interdisciplinary Interview)

#### 4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course "Cariology and diseases of hard tooth tissues" is 8 credits (288 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			
		4	5	6	
<i>Contact academic hours</i>	176	54	68	54	
including:					
Lectures (LC)					
Lab work (LW)	176	54	68	54	
Seminars (workshops/tutorials) (S)					
<i>Self-studies</i>	112	34	40	38	
<i>Evaluation and assessment (exam/passing/failing grade)</i>	42	6	18	18	
<b>Course workload</b>	academic hours	288	88	108	92
	credits	8	2	3	3

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

#### 5. COURSE CONTENTS

Table 5.1. Course contents and academic activities types

<b>Course module title</b>	<b>Course module contents (topics)</b>	<b>Academic activities types</b>
Organization and equipment of the dental office.	Norms and requirements for the organization of a dental office. Infection control. Ergonomics. Deontological principles in the treatment of caries and non-carious lesions of hard tissues of teeth.	LW
Examination of a dental patient.	Medical card of the dental patient. Methods of examination of the dental patient: basic, additional.	LW
Etiology, pathogenesis of dental caries.	The structure of hard tissues of teeth. Determination of tooth decay. Etiology, pathogenesis of dental caries. Classification.	LW
Tooth decay.	Caries of enamel. Dental caries. Caries of cement. Clinical picture, diagnostic methods, differential diagnostics.	LW
Methods of treatment of dental caries.	A choice of a technique of treatment of caries of enamel, dentin, cement. Materials and means for the treatment of dental caries.	LW
Non-carious lesions of hard tissues of teeth	Non-carious lesions of the teeth that occur before teething: hypoplasia, hyperplasia, fluorosis, hereditary tooth structure disorders; symptoms of late congenital syphilis; change in color during the formation of teeth. Non-carious lesions of teeth arising after their eruption: tooth pigmentation and plaque, erosion of hard tissues, wedge-shaped defect, erosion of teeth, hyperesthesia, tooth trauma. Etiology, pathogenesis. Clinical picture, diagnosis, differential diagnosis, treatment.	LW
Dental Bleaching	Tooth discoloration. Dental Bleaching	LW
Restoration of teeth.	Determination of indications for the restoration of teeth. Stages of aesthetic restoration. An integrated approach to the treatment of dental caries and non-carious lesions of hard tooth tissues.	LW
Mistakes and complications in the diagnosis and treatment of diseases	Identification, elimination and prevention of errors and complications in the diagnosis and treatment of diseases of hard tissues of teeth.	LW

Course module title	Course module contents (topics)	Academic activities types
of hard tissues of teeth.		

\* - to be filled in only for **full**-time training: *LC* - lectures; *LW* - lab work; *S* - seminars.

## 6. CLASSROOM EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENT

To conduct classes in the discipline "Cariesology and diseases of hard tissues of teeth" are used rooms 254, 255, 241,355 - phantom classes (Miklukho-Maklaya st., 10a), equipped with dental units - a dentist module and a patient simulator, there are dental instruments, consumables, personal protective equipment. For various sections of the discipline, presentations, situational tasks, business games, test tasks have been created and applied. Classrooms 255,254 have a multimedia projector; personal computer, audio and video materials.

For the implementation of the educational and therapeutic process used classrooms and treatment rooms, 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).

## 7. RESOURCES RECOMMENDED SOURCES FOR COURSE STUDY

1. software\_ - there is Microsoft office 2012 software for practical training
2. resources of the information and telecommunication network "Internet":
3. EBS of RUDN University and third-party EBS to which university students have access on the basis of concluded agreements:
  - a. Electronic library system RUDN - EBS RUDN <http://lib.rudn.ru/MegaPro/Web>
  - b. EBS "University Library Online" <http://www.biblioclub.ru>
  - c. EBS Yurayt <http://www.biblio-online.ru>
  - d. EBS "Student Consultant" [www.studentlibrary.ru](http://www.studentlibrary.ru)
  - e. EBS "Doe" <http://e.lanbook.com/>
4. Databases and search engines:
  - a. PUBMED
  - b. SCOPUS abstract database <http://www.elsevierscience.ru/products/scopus/>
  - c. WHO Documentation Center <http://whodc.mednet.ru/>
5. Literature:
  - a. Essentials of operative dentistry. Учебное пособие. М.: ГЕОТАР-МЕДИА. 2019, 512 p. Гриф УМО: регистрационный номер рецензии 571 ЭКУ от 20 декабря 2018 года. Daurova F.Yu., Makeeva M.K., Khabadze Z.S., Vayts S.V., Zoryan A.V., Bagdasarova I.V.
  - b. Cariology and Non-caries Lesions Daurova F. Yu., Khabadze Z.S, Makeeva V.K. Kogevnikova L.A Учебное пособие/Москва 2107
  - c. Tutorial guide of operative dentistry for dental students of second and third year of education, Daurova F. Yu., Khabadze Z.S., Makeeva V.K. Москва, 2016
  - d. Tests and tasks for students of 2nd year for discipline "Cariology". Current control. М.: РУДН. 2020, 132 с. Daurova F. Yu., Makeeva M/K/Vayts S. V., Khabadze Z.S.
  - e. Основы кариесологии в тестах и заданиях: тестовый контроль и оценка уровня знаний. (Fundamentals of cariesology in tests and tasks: Competency and knowledge assessment). Учебно-методические рекомендации на английском языке. М.: Изд-во РУДН. 2018, 88 с. Хабадзе З.С., Багдасарова И.В., Зорян А.В., Карнаева А.С., Кожевникова Л.А.

## 8. EVALUATION TOOLKIT AND GRADE SYSTEM FOR ASSESSMENT

Evaluation Toolkit (ET) and a point-rating system (PRS)\* for assessment the level of competence formation (part of competencies) based on the results of mastering the discipline "Cariesology and diseases of hard tissues of teeth" are presented in the Appendix to this Work Program of the discipline.

\* - ET and PRS are formed on the basis of the requirements of the relevant local regulatory act of the RUDN

### DEVELOPERS:

Head of Conservative  
Dentistry Department,  
Associate Professor

Z.S. Khabadze

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position, department

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signature

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name and surname

Head of Educational Process  
of Conservative Dentistry  
Department, Associate  
Professor

I.V. Bagdasarova

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position, department

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signature

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name and surname

Associate Professor of  
Conservative Dentistry  
Department

M.K. Makeeva

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position, department

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signature

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name and surname

### HEAD OF EDUCATIONAL DEPARTMENT:

Head of Conservative  
Dentistry Department,  
Associate Professor

Z.S. Khabadze

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name of department

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signature

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name and surname

### HEAD OF HIGHER EDUCATION PROGRAMME:

Deputy Director of Institute of  
Medicine for Academic

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Affairs in the field of

Dentistry

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position, department

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signature

S.N. Razumova

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name and surname